

WRDC-TR-90-8007
Volume V
Part 6
Section 6 of 6

AD-A252 053



INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)
Volume V - Common Data Model Subsystem
Part 6 - Neutral Data Definition Language (NDDL) Product
Specification
Section 6 of 6

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JUN 19 1992

September 1990

Final Report for Period 1 April 1987 - 31 December 1990

Approved for Public Release; Distribution is Unlimited

92-16234



MANUFACTURING TECHNOLOGY DIRECTORATE
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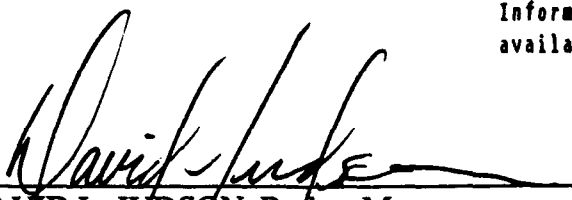
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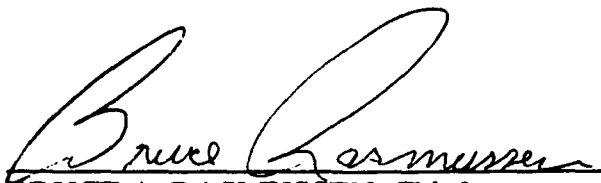
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WRDC/MTI
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25 July 91
DATE

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25 July 91
DATE

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REPORT DOCUMENTATION PAGE			FORM APPROVED OMB NO. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE September 1990	3. REPORT TYPE AND DATES COVERED Final Technical Report 1Apr87 - 31Dec90	
4. TITLE AND SUBTITLE INTEGRATED INFORMATION SUPPORT SYSTEM (IISS) Volume V - Common Data Model Subsystem Part 6 - Neutral Data Definition Language (NDDL) Product Specification Section 6 of 6			5. FUNDING NUMBERS Contract No.: F33600-87-C-0464 PE: 78011F Proj. No.: 595600 Task No.: P95600 WU: 20950607	
6. AUTHOR(S) J. Althoff, M. Apicella, S. Singh				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Controld Data Corporation Integration Technology Services 2970 Presidential Drive Fairborn, OH 45324-6209			8. PERFORMING ORGANIZATION REPORT NUMBER PS 620341100	
9. SPONSORING MONITORING AGENCY NAME(S) AND ADDRESS(ES) Manufacturing Technology Directorate (WRDC/MTI) Wright-Patterson AFB, OH 45433-6533			10. SPONSORING/MONITORING AGENCY REP NUMBER WRDC-TR-90-8007, Vol. V, Part 6 Section 6 of 6	
11. SUPPLEMENTARY NOTES WRDC/MTI Project Priority 6203				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for Public Release; Distribution is Unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT This specification establishes the development, test and qualification requirements of a computer program identified as the "Neutral Data Definition Language Processor" (NDDL Processor). This report is divided into six (6) sections.				
14. SUBJECT TERMS			15. NUMBER OF PAGES 1881	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT SAR	18. SECURITY CLASS OF THIS PAGE SAR	19. SECURITY CLASS OF ABSTRACT SAR	20. LIMITATION ABSTRACT SAR	

MODEL NO
OBJ_NO

INT *
INT *

INCLUDE FILES:

CSTD TYP
LISTID

ROUTINES CALLED:

TOUPPER
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD
VERDB
SPRINTF
UERROR
VERLR
VERCR
VERRT
VERRSET



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DTIC TAB	☐
Unannounced	☐
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	

DOCGROUP PS41100 Module Documentation

NAME: VEROBJ1
PURPOSE: VERIFY THAT THE OBJECT EXISTS.
LANGUAGE: C
SOURCE FILE: VEROBJ1
SOURCE FILE TYPE: C
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SYNOPSIS

```
      C          --  VEROBJ1 (OBJ_TYPE, &MODEL_NO, &OBJ_NO,
OBJ_NAMEA,
      COBOL      --  CALL "VEROBJ"          OBJ_NAMEB, OBJ_NAMEC)
                                          USING
                                          OBJ-TYPE
                                          MODEL-NO
                                          OBJ-NO
                                          OBJ-NAMEA
                                          OBJ-NAMEB
                                          OBJ-NAMEC

      FORTRAN    --  CALL VEROBJ
(OBJTYPE,MODELNO,OBJNO,OBJNAMEA,OBJNAMEB,
                                OBJNAMEC)
```

INPUT:

```
CHAR*OBJ_TYPE[]
INT *MODEL_NO
```

OUTPUT:

```
INT *OBJ_NO
CHAR*OBJ_NAMEA[]
CHAR*OBJ_NAMEB[]
CHAR*OBJ_NAMEC[]
```

DESCRIPTION

VEROBJ1'S FUNCTION IS TO VERIFY THAT THE OBJECT TYPE
ENTERED IN THE

DESCRIBE COMMAND IS VALID. IF THE OBJECT TYPE IS NOT
VALID,
OBJ_NO WILL CONTAIN ZERO. IF THE OBJECT TYPE IS VALID,
OBJ_NO WILL
CONTAIN THE OBJECT NUMBER OF THE OBJECT IN QUESTION.
VEROBJ1 WILL
ALSO RETURN THE OBJECT NAMES FOR THE OBJECT BEING VERIFIED.

ARGUMENTS:

OBJ_TYPE	CHAR []
MODEL_NO	INT *
OBJ_NO	INT *
OBJ_NAMEA	CHAR []
OBJ_NAMEB	CHAR []
OBJ_NAMEC	CHAR []

INCLUDE FILES:

CSTDYTP
LISTID

ROUTINES CALLED:

TOUPPER
STRNCPY
VERRT
VERRSET
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD

PS 620341100
30 September 1990

VERDB
SPRINTF
UERROR
VERLR
VERCR

MODEL_NO
OBJ_NO

INT *
INT *

INCLUDE FILES:

CSTDTP
LISTID

ROUTINES CALLED:

TOUPPER
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD
VERDB
SPRINTF
UERROR
VERLR
VERCR
VERRT
VERRSET

DOCGROUP PS41100 Module Documentation

NAME: VROBJ1
PURPOSE: VERIFY THAT THE OBJECT EXISTS.
LANGUAGE: C
SOURCE FILE: VROBJ1
SOURCE FILE TYPE: C
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SYNOPSIS

```
      C          -- VROBJ1 (OBJ_TYPE, &MODEL_NO, &OBJ_NO,  
OBJ_NAMEA,      OBJ_NAMEB, OBJ_NAMEC)  
      COBOL      -- CALL "VROBJ1"      USING  
                                          OBJ-TYPE  
                                          MODEL-NO  
                                          OBJ-NO  
                                          OBJ-NAMEA  
                                          OBJ-NAMEB  
                                          OBJ-NAMEC
```

```
      FORTRAN    -- CALL VROBJ1  
(OBJTYPE,MODELNO,OBJNO,OBJNAMEA,OBJNAMEB,  
                                OBJNAMEC)
```

INPUT:

```
      CHAR*OBJ_TYPE[]  
      INT *MODEL_NO
```

OUTPUT:

```
      INT *OBJ_NO  
      CHAR*OBJ_NAMEA[]  
      CHAR*OBJ_NAMEB[]  
      CHAR*OBJ_NAMEC[]
```

DESCRIPTION

VROBJ1'S FUNCTION IS TO VERIFY THAT THE OBJECT TYPE
ENTERED IN THE

DESCRIBE COMMAND IS VALID. IF THE OBJECT TYPE IS NOT
VALID,
OBJ_NO WILL CONTAIN ZERO. IF THE OBJECT TYPE IS VALID,
OBJ_NO WILL
CONTAIN THE OBJECT NUMBER OF THE OBJECT IN QUESTION.
VROBJ1 WILL
ALSO RETURN THE OBJECT NAMES FOR THE OBJECT BEING VERIFIED.

ARGUMENTS.

OBJ_TYPE	CHAR []
MODEL_NO	INT *
OBJ_NO	INT *
OBJ_NAMEA	CHAR []
OBJ_NAMEB	CHAR []
OBJ_NAMEC	CHAR []

INCLUDE FILES:

CSTDTP
LISTID

ROUTINES CALLED:

TOUPPER
STRNCPY
VERRT
VERRSET
CPFNXT
VERDI
VERUDTN
VERDFLD
STRNCMP
VERATT
VERENT
VERHST
VERKW
VERVIEW
VERDOM
VERMOD
VERDB
SPRINTF
UERROR
VERLR
VERCR

DOCGROUP PS41100 Module Documentation

NAME: VTAGAUC
PURPOSE:
LANGUAGE: C
SOURCE FILE: VTAGAUC
SOURCE FILE TYPE: PC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

ARGUMENTS:

EC PTR	INT *
TAGNM PTR	CHAR *
TAG PTR	INT *
AC PTR	INT *
STATUS	INT *

ROUTINES CALLED:

STRNCPY
SQLSCA
SQLBS2
SQLSCH
SQLSCC
SQLTFL
SQLOPN
SQLOSQ
SQLAB2
SQLEXE
SQLAD2
SQLFCH
ERRRPT

DOCGROUP PS41100 Module Documentation

NAME: WRTDESC
PURPOSE: SELECT A RECORD FROM DESC_TEXT ENITY
LANGUAGE: C
SOURCE FILE: WRTDESC
SOURCE FILE TYPE: PC
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

SYNOPSIS

```
      C      --      WRTDESC(&OBJ_TYPE_PTR, &OBJ1_PTR,
&OBJ2_PTR,
                                &STATUS)

      COBOL   --      CALL "WRTDESC" USING
                                OBJECT-TYPE,
                                OBJECT-NO-1,
                                OBJECT-NO-2,
                                STATUS.

      FORTRAN --      CALL WRTDESC(OBJECT_TYPE, OBJ_NO_1,
OBJ_NO_2,
                                STATUS)
```

INPUT:

```
      CHAR *OBJ_TYPE_PTR ;
      INT  *OBJ1_PTR ;
      INT  *OBJ2_PTR ;
```

OUTPUT:

```
      INT *STATUS ;
```

DESCRIPTION:

THIS ROUTINE USES ORACLE CALLS TO COPY DESCRIPTION TEXT
OF OBJ_NO_1

TO DESCRIPTION TEXT OF OBJ_NO_2. IF SUCCESSFUL, THEN THE
STATUS AND

RETURN VALUE BOTH WILL BE 0 , OTHERWISE -1.
REWRITTEN TO PRO*C DUE TO PROBLEM WITH SQL*FORMS AND HLI
INTERFACE

ARGUMENTS:

OBJ_TYPE_PTR
OBJ1_PTR
OBJ2_PTR
STATUS

CHAR *
INT *
INT *
INT *

ROUTINES CALLED:

STRNCPY
SQLSCA
SQLBS2
SQLSCH
SQLSCC
SQLTFL
SQLOPN
SQLOSQ
SQLAB2
SQLEXE
ERRRPT

DOCGROUP PS41100 Module Documentation

NAME: WRTLIN
PURPOSE: THIS ROUTINE WRITES A NDDL COMMAND LINE (79
CHARACTERS)
LANGUAGE: C
SOURCE FILE: WRTLIN
SOURCE FILE TYPE: C
HOST:
SUBSYSTEM: CDM
SUBDIRECTORY: NDDL

DESCRIPTION:

TO THE USER-SPECIFIED FILE OR TO THE SCREEN

SYNOPSIS

C -- WRTLIN(&LINE) ;
COBOL -- CALL "WRTLIN" USING
LINE.
FORTRAN -- CALL WRTLIN(LINE)

INPUT:

CHAR *COMMAND_LINE ;

OUTPUT:

DESCRIPTION:

FILE OPN APP FLAG MAY HAVE 3 VALUES

0 : OUTPUT GENERATED COMMANDS TO THE SCREEN

1/2 : OUTPUT GENERATED COMMANDS TO A USER DEFINED FILE

ARGUMENTS:

LINE

CHAR *

INCLUDE FILES:

STDIO
NDDLEX

ROUTINES CALLED:

PUTC
STRNCPY
PMSGLS

3.10.5 Include File Descriptions

The following list contains a purpose and description of each include file in the documentation group as specified in the source code. The language it is written in is also given.

DOCGROUP PS41100 Include File Description

FILE NAME: ADDPARM
PURPOSE: DEFINES COMMON PARAMETERS USED TO BUILD NDDL
COMMAND LINE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

FROM CALLS TO SUBPROGRAM ADDPARM.

DOCGROUP PS41100 Include File Description

FILE NAME: ADDTGLS
PURPOSE: THIS LIST IS USED TO HOLD THE TAG INFORMATION FOR
ADDITIONS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

TO AN ENTITY DEFINED IN THE NDDL COMMAND ALTERENTITY

THE VALUE OF ATL-MAX MUST EQUAL DTL-MAX IN THE
DROP-TAG-LIST.

DOCGROUP PS41100 Include File Description

FILE NAME: ALGTBL
PURPOSE: TABLE TO HOLD ALGORITHM VARIABLES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DESCRIPTION:

STRUCTURE CONTAINS INPUT AND OUTPUT PARAMETERS
FOR A COMPLEX MAPPING ALGORITHM

DOCGROUP PS41100 Include File Description

FILE NAME: ATTRIBUTE
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: ATTRNOS
PURPOSE: THE PARSE.
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: AUPTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: BOOLST
PURPOSE: BOOLEAN LIST
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS THE BOOLEAN OPERATORS, PARENTHESES, AND
POINTERS TO THE TYPE 2 CONDITIONS FOR AN NDML
TRANSACTION

DOCGROUP PS41100 Include File Description

FILE NAME: CANNOT
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: CHKCDM
PURPOSE: IISS CDMP CHECK STATUS CODES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS ALL STATUS CODES FOR THE
CDMP MODULES

*
*

DOCGROUP PS41100 Include File Description

FILE NAME: CHKMODL
PURPOSE: DETERMINE IF CURRENT MODEL EXISTS FOR A SESSION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DETERMINE IF THE GLOBAL VARIABLE MODEL-NO HAS A CURRENT
MODEL NUMBER. THIS WILL BE SET BY THE CREATE MODEL OR THE
ALTER MODEL COMMAND PROCESSOR. IF MODEL-NO CONTAINS
A ZERO, THEN A CURRENT MODEL HAS NOT BEEN ESTABLISHED
FOR THE SESSION AND NO NDDL COMMANDS THAT REQUIRE A
MODEL NUMBER MAY BE PROCESSED.

DOCGROUP PS41100 Include File Description

FILE NAME: CSQCLST
PURPOSE: CONCEPTUAL SCHEMA QUALIFY CRITERIA LIST
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS CONCEPTUAL SCHEMA INFORMATION FOR EACH
ATTRIBUTE IN THE WHERE CLAUSE.

DOCGROUP PS41100 Include File Description

FILE NAME: DBTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: DEPECL
PURPOSE: TABLE TO HOLD EXCEPTED ENTITY CLASS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

NUMBERS -- FOR NDDL MODELING COMMANDS *

DOCGROUP PS41100 Include File Description

FILE NAME: DFTBL
PURPOSE: TABLE TO HOLD RECORD DEFINITION VARIABLES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DESCRIPTION :

TABLE TO HOLD INFORMATION NEEDED TO DEFINE A RECORD

DOCGROUP PS41100 Include File Description

FILE NAME: DRPTGLS
PURPOSE: THIS LIST IS USED TO HOLD THE TAG INFORMATION USED
TO
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DROP A TAG FROM AN ENTITY SPECIFIED IN THE NDDL COMMAND *
ALTER ENTITY *
THE VALUE OF DTL-MAX MUST EQUAL ATL-MAX OF THE *
ADD-TAG-LIST TABLE *

DOCGROUP PS41100 Include File Description

FILE NAME: ECLIST
PURPOSE: CONTAINS A LIST OF ENTITY CLASS NUMBERS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

THIS LIST IS USED WHEN PROCESSING NDDL
MODELING COMMANDS

DOCGROUP PS41100 Include File Description

FILE NAME: ECRTBL
PURPOSE: COPY MEMBER ECRTBL
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: ECTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: EOD
PURPOSE: SQL END OF DATA DEFINITION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: ERRCDM
PURPOSE: IISS ERROR STATUS CODES FOR CDMP MODULES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS ALL ERROR CODES USED BY CDMP *
MODULES FOR ERROR HANDLING *

DOCGROUP PS41100 Include File Description

FILE NAME: ERRFS
PURPOSE: ERRFS.INC - FILE I/O PRIMITIVES (FILE SERVICES)
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

IISS ERROR CODES

THIS FILE DEFINES THE FS STATUS
CODES IN COBOL FORMAT

DOCGROUP PS41100 Include File Description

FILE NAME: ERRPRO
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: FLDELST
PURPOSE: PROVIDE A TEMPORARY LIST OF FILES OF CODE TO BE
DELETED
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

THE NAMES OF FILES AND MODULES OF OBSOLETE
GENERATED CODE ARE STORED IN THIS TABLE DURING
THE PRECOMPILATION OF A SINGLE USER MODULE.
THEY MUST BE STORED UNTIL PRECOMPILATION IS
COMPLETE AND SUCCESSFUL AND THEN THE NAMES
ARE USED TO DELETE THE FILES.

DOCGROUP PS41100 Include File Description

FILE NAME: FPCODE
PURPOSE: FORM PROCESSOR RETURN CODES
LANGUAGE: C

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: FPPARM
PURPOSE: FORM PROCESSOR PARAMETERS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION: THESE DATA DEFINITIONS ARE USED
IN THE FORM PROCESSOR ROUTINES.

DOCGROUP PS41100 Include File Description

FILE NAME: HOST
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: KCNAMET
PURPOSE: KEY-PROCESSED-TBL
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

LIST OF KEY CLASSES PROCESSED FOR AN ENTITY

DOCGROUP PS41100 Include File Description

FILE NAME: KEYLIST
PURPOSE: DATA STRUCTURE FOR NDDL MODELLING COMMANDS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DATA STRUCTURE THAT HOLDS ENTITES ITS KEY CLASSES AND
KEY CLASS MEMBERS. THIS STRUCTURE IS USED FOR THE
NDDL MODELLING COMMANDS.

DOCGROUP PS41100 Include File Description

FILE NAME: KWDTBL
PURPOSE: KEYWORD TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

LIST OF KEYWORDS, OBJECT NUMBER, KEYWORD NUMBER
BELONGING IN THE MODEL

DOCGROUP PS41100 Include File Description

FILE NAME: LISTID
PURPOSE: PROVIDES LIST OF PARSED OBJECTS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DOCGROUP PS41100 Include File Description

FILE NAME: LISTNOS
PURPOSE: NDDL AND NDML LIST NUMBERS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

CONTAINS THE VALID SET LIST NUMBERS USED BY
NDDL AND NDML FOR STORING AND RETRIEVING TOKENS
FROM PARSED COMMANDS.

LISTS USED ONLY BY NDDL

DOCGROUP PS41100 Include File Description

FILE NAME: LISTREL
PURPOSE: LIST OF RELATIONS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

TABLE HOLDS RELATIONS CLASS NUMBERS AND NAMES

DOCGROUP PS41100 Include File Description

FILE NAME: LISTS
PURPOSE: PROVIDES THE DIMENSIONS OF THE NDDL LISTS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DOCGROUP PS41100 Include File Description

FILE NAME: MACDAT
PURPOSE: WS VARIABLES FOR MACRO COPY UTILITY
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: MDTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: MODULE
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: NDDLEXY
PURPOSE:
LANGUAGE: C

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: NEWTAGT
PURPOSE: NEW TAG MIGRATION TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

INFO OF ALL KEY MIGRATION OF THE AUC IN THE NEW
OWNER ENTRY.

DOCGROUP PS41100 Include File Description

FILE NAME: OK
PURPOSE: GOOD RETURN CODE VALUE FOR UI
LANGUAGE: C

DESCRIPTION:

DESCRIPTION
CONTAINS THE VALUE FOR A GOOD RETURN CODE
FROM THE USER INTERFACE

DOCGROUP PS41100 Include File Description

FILE NAME: OLDTAGT
PURPOSE: OLD TAG MIGRATION TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

INFO OF ALL KEY MIGRATION OF THE AUC IN THE OLD
OWNER ENTRY.

DOCGROUP PS41100 Include File Description

FILE NAME: RCDEPKC
PURPOSE: LIST OF KEYS MIGRATED VIA A RELATION
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

The RC-DEPKC-LIST is used by the NDDL modeling
commands to identify which key classes can be added
at which levels in the model.
Modified 7/25/89: to handle category relations as
well as link by adding rc-type and multiple dep-ecs.

DOCGROUP PS41100 Include File Description

FILE NAME: RELTBL
PURPOSE: LIST OF RELATION CLASSES IN A MODEL
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

HOLD RELATION CLASS NUMBERS BELONGING TO A MODEL

DOCGROUP PS41100 Include File Description

FILE NAME: RENLIST
PURPOSE: LIST OF ATTRIBUTES AND INHERITED TAG PAIRS
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

REN-LIST CONTAINS THE LIST OF RENAME PAIRS
SPECIFIED BY THE USER ON THE "SET RENAME-LIST"
CLAUSE.

DOCGROUP PS41100 Include File Description

FILE NAME: SBSTLST
PURPOSE: WS DEFINITION FOR THE SUBSTITUTION LIST TABLE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

SUBSTITUTION-LIST REPRESENTS THE INPUT TABLE
OF SUBSTITUTION PARAMETERS FOR THE CDMACR
MACRO EXPANSION SUBROUTINE

DOCGROUP PS41100 Include File Description

FILE NAME: SDLIST
PURPOSE: SEC-DECOMPOSITION-LIST
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

RELATIONS THIS LIST REPRESENTS ALL ENTITY CLASSES AND
 MAKING UP EITHER THE SURROGATE ENTITY CLASS
 OR THE COMBINATION OF SEC'S RESULTING FROM JOINS
 IN THE NDML SELECT STATEMENT.
 THIS TABLE IS USED AS INPUT TO ROUTINE CDP4A
 WHICH CAN VERIFY THE LEGALITY OF A SEC STRUCTURE

DOCGROUP PS41100 Include File Description

FILE NAME: SRVRET
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: TAGTBL
PURPOSE: TABLE TO HOLD TAGS SPECIFIED IN AN ALGORITHM
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DESCRIPTION:

THIS STRUCTURE CONTAINS THE "BROTHER" TAGS
SPECIFIED IN A COMPLEX MAPPING ALGORITHM
(BETWEEN CS AND IS)

DOCGROUP PS41100 Include File Description

FILE NAME: TDFTBL
PURPOSE: TABLE TO HOLD TEMPORARY RECORD DEFINITION VARIABLES
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: THRU
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: UNIQENO
PURPOSE: UNIQUE NUMBER ASSIGNMENTS FOR CDM OBJECTS
LANGUAGE: C

DESCRIPTION:

DESCRIPTION

DOCGROUP PS41100 Include File Description

FILE NAME: UNTBL
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: UPDTGLS
PURPOSE: THIS IS A TABLE USED FOR UPDATING THE INHERITED
ATTRIBUTED
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

USE ENTITY FOR THE NDDL COMMAND ALTER ENTITY

DOCGROUP PS41100 Include File Description

FILE NAME: VIEW
PURPOSE: PROCESS ERROR INCLUDE FILE
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

DOCGROUP PS41100 Include File Description

FILE NAME: VWDI
PURPOSE: LIST OF DATA ITEMS IN A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

USED BY CREATE VIEW..

DOCGROUP PS41100 Include File Description

FILE NAME: VWFROM
PURPOSE: LIST OF ENTITIES SPECIFIED IN A VIEW
LANGUAGE: VAX-11 COBOL

DESCRIPTION:

IN THE 'FROM' CLAUSE

DOCGROUP PS41100 Include File Description

FILE NAME: VWRETR
PURPOSE: LIST OF ENTITIES AND TAGS SPECIFIED IN A VIEW
LANGUAGE: VAX-11 COBOL

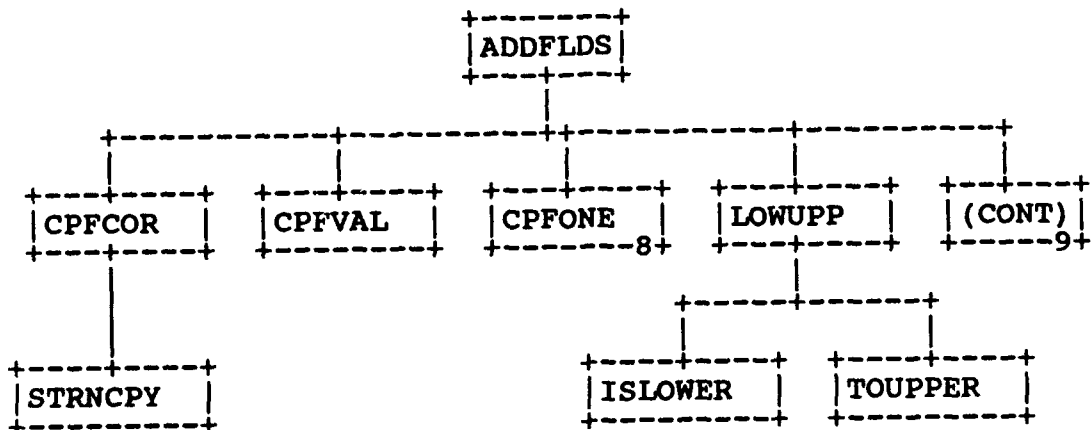
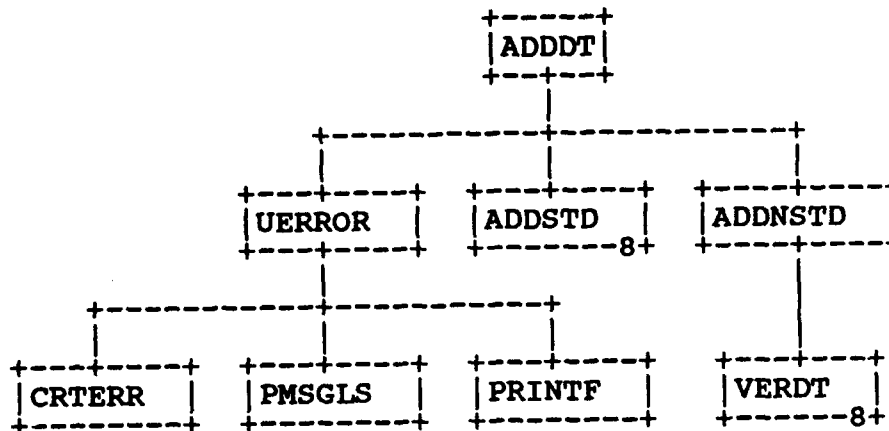
DESCRIPTION:

IN THE SELECT CLAUSE

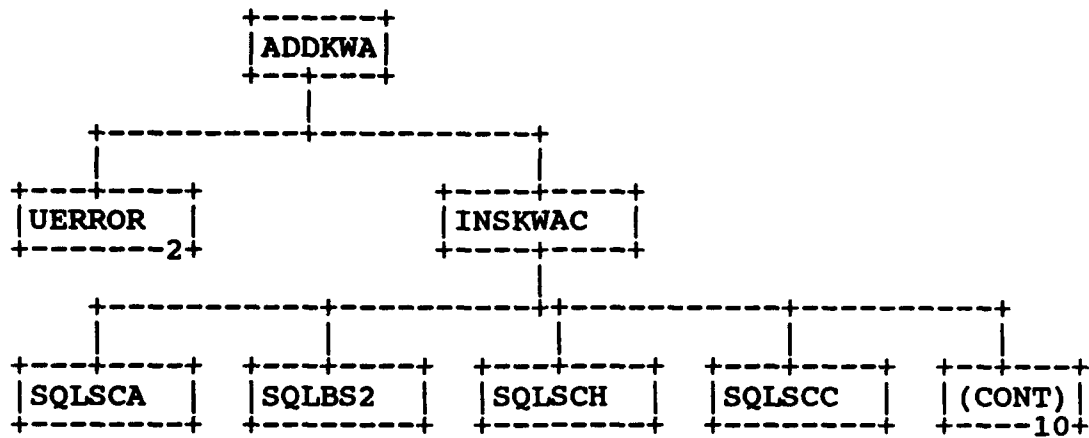
3.10.6 Hierarchy Chart

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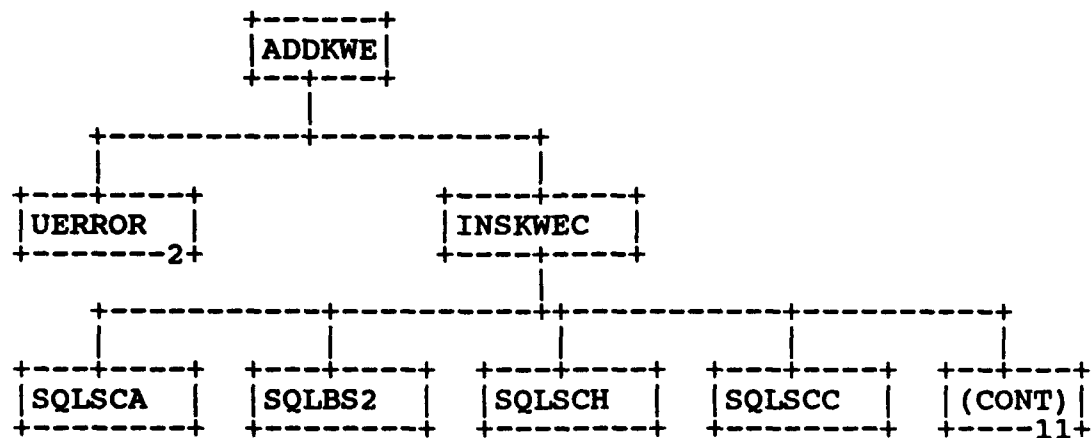
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-2-	-3-	-4-	-5-	-6-	-7-



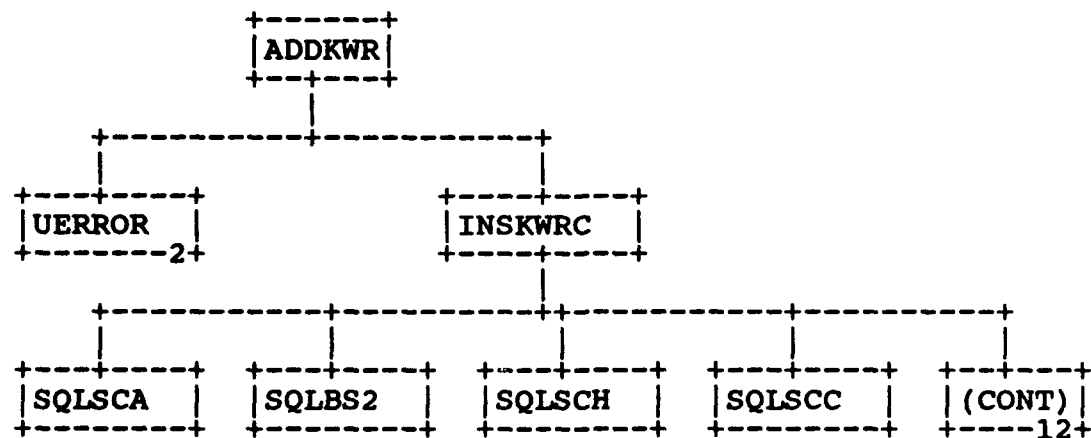
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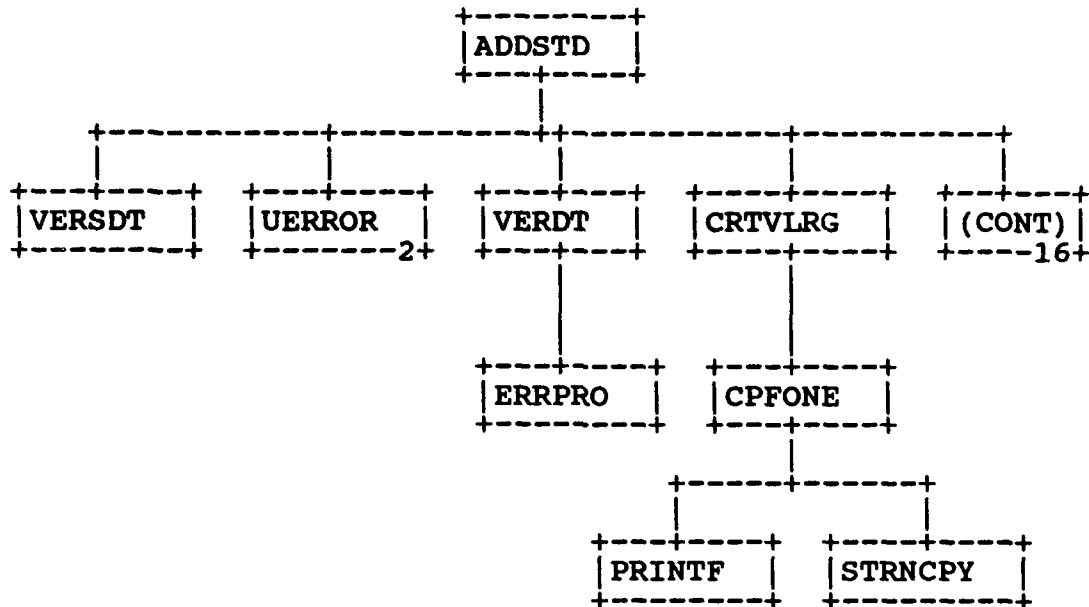
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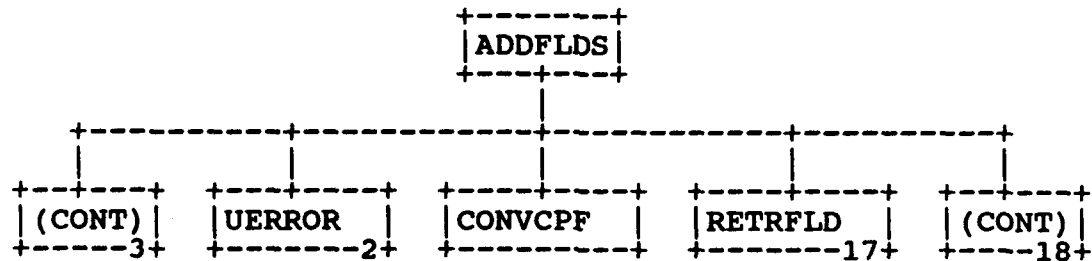
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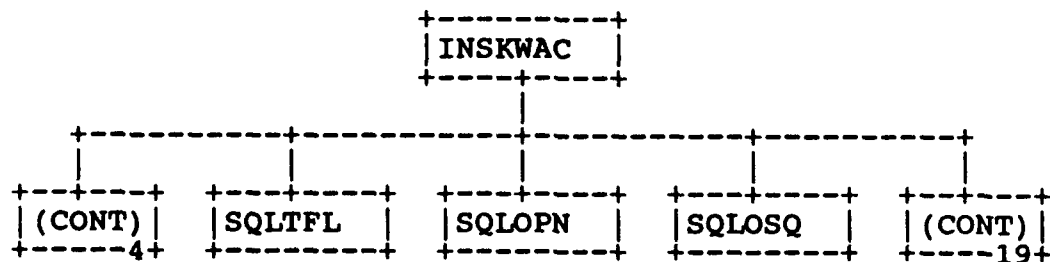
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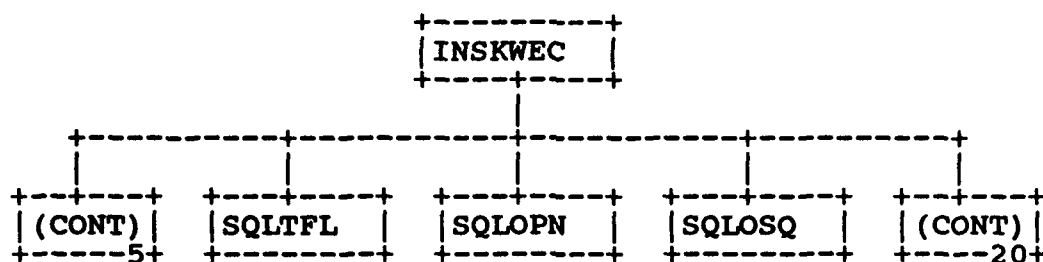
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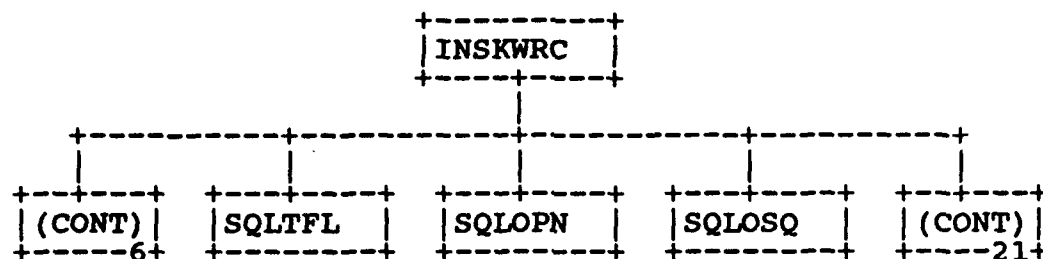
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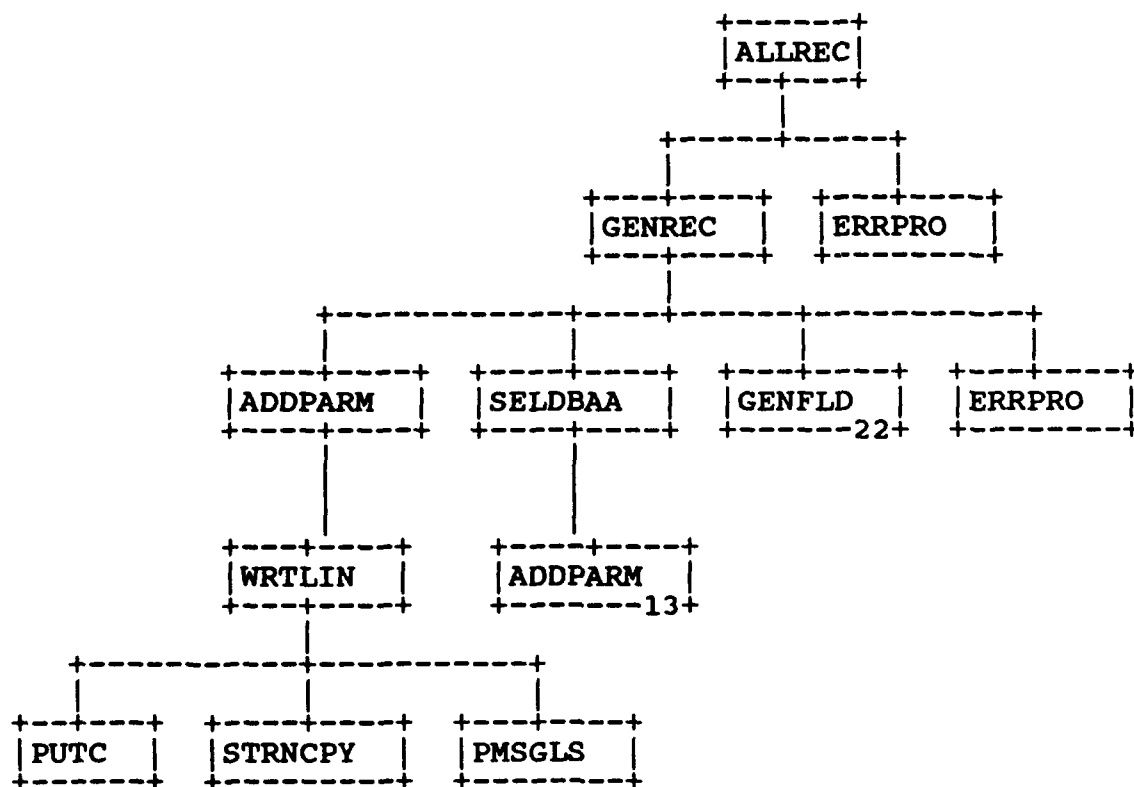
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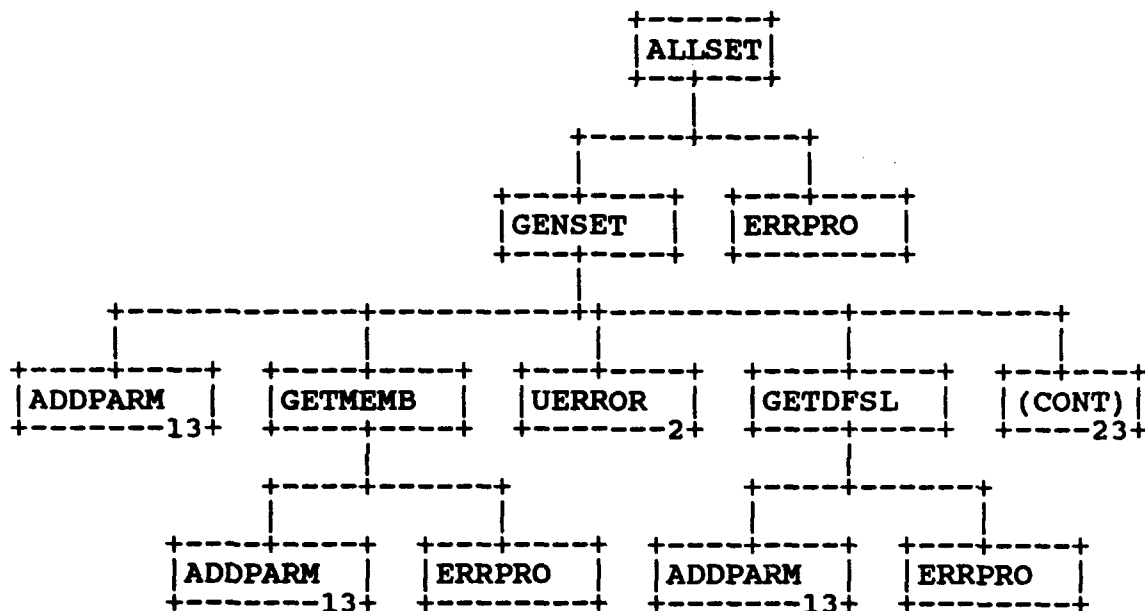
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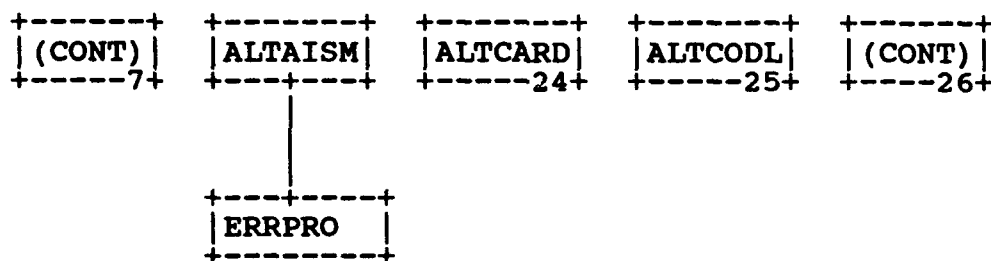
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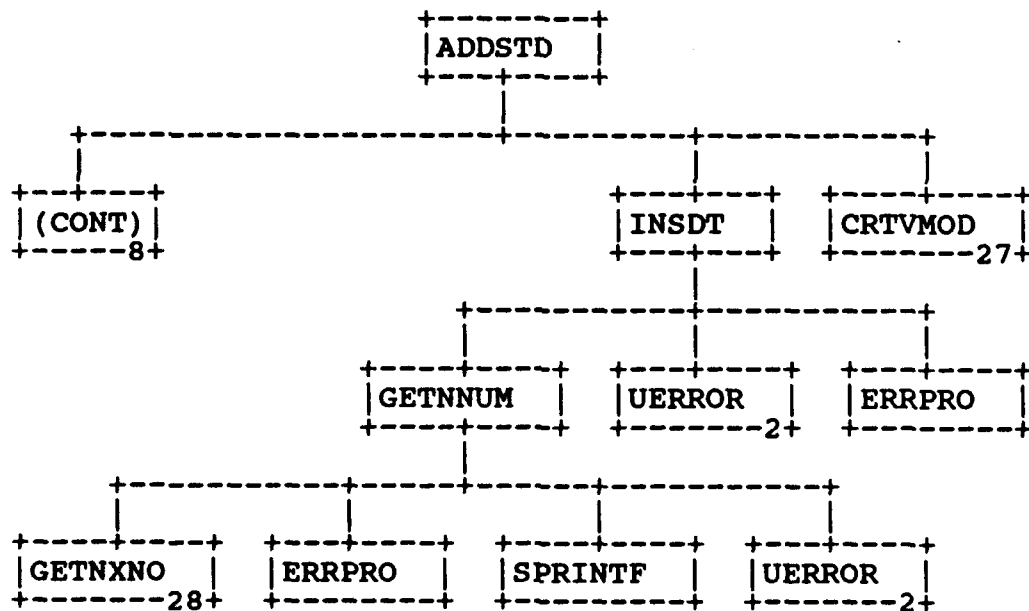
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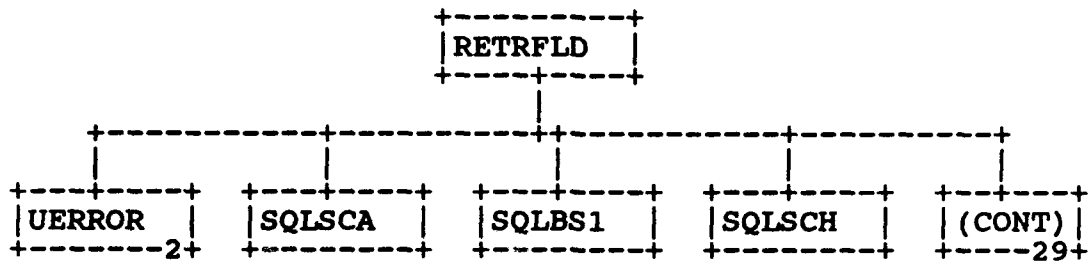
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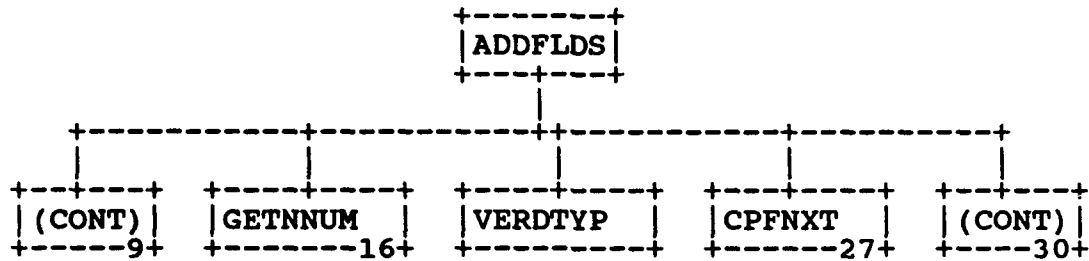
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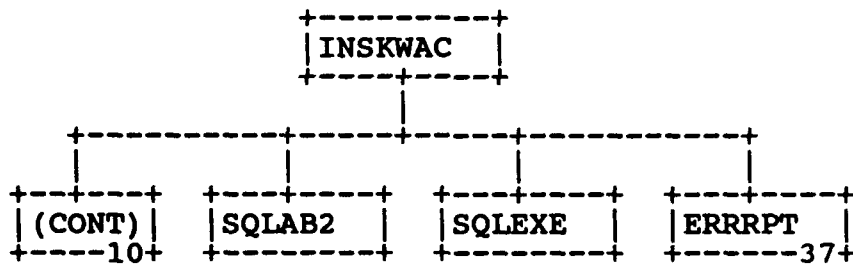
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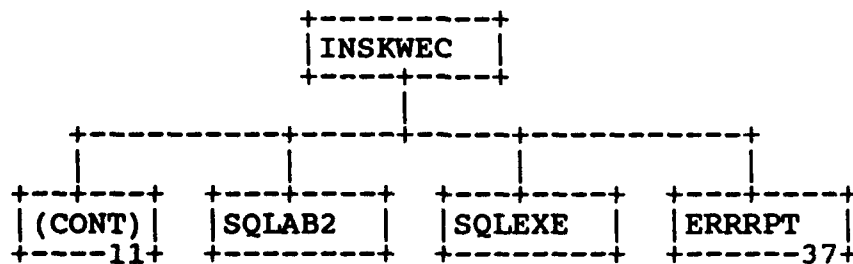
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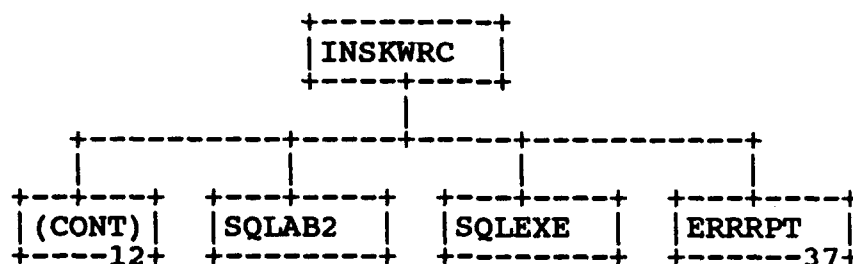
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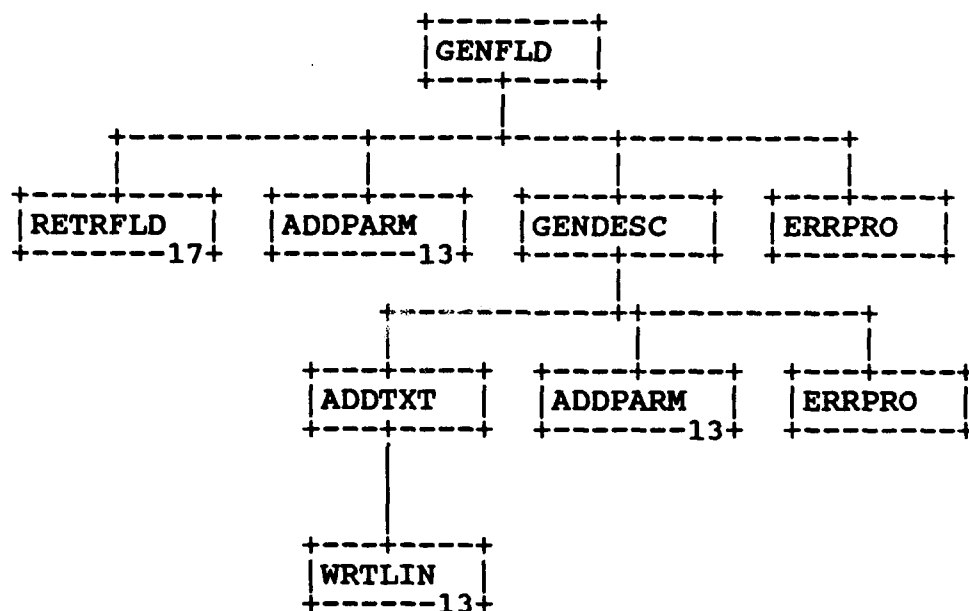
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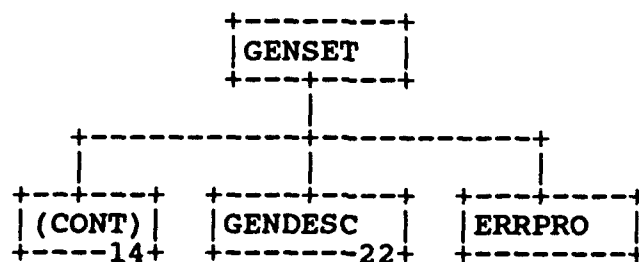
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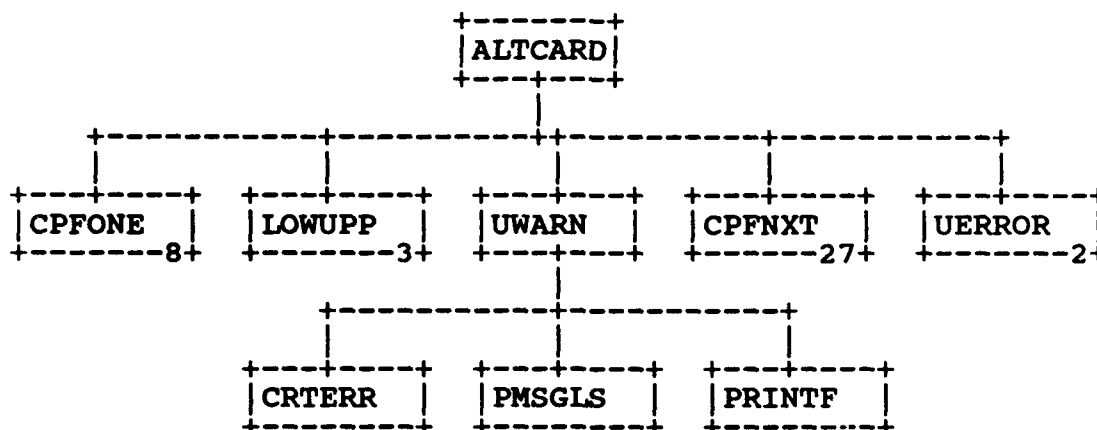
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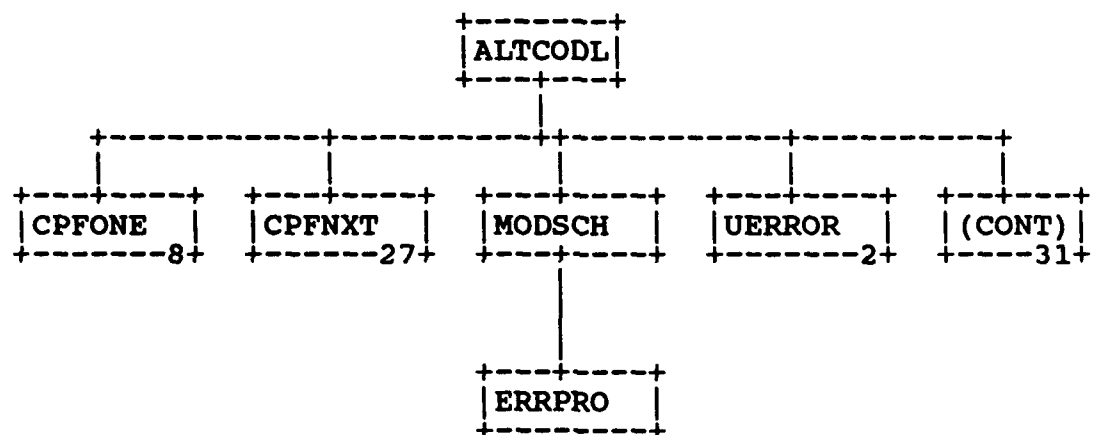
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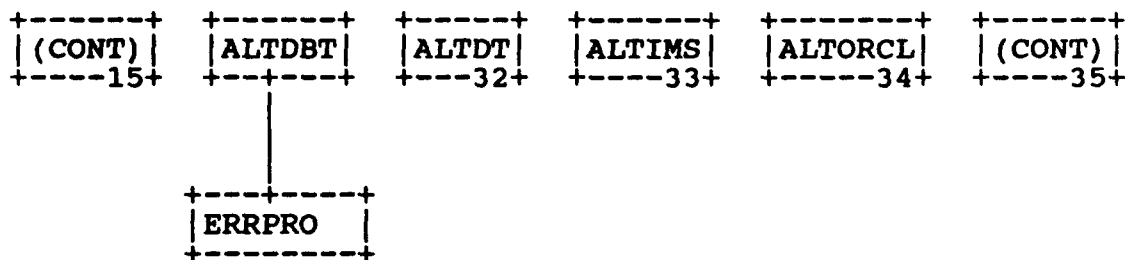
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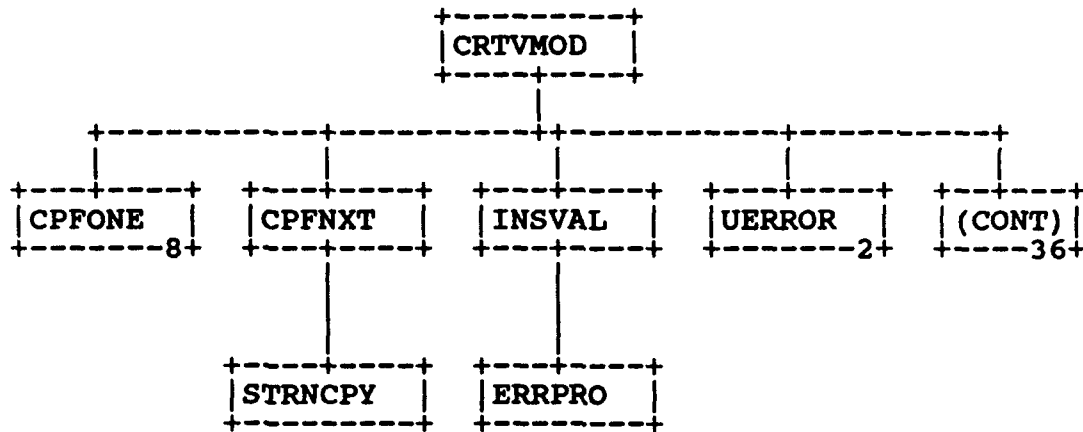
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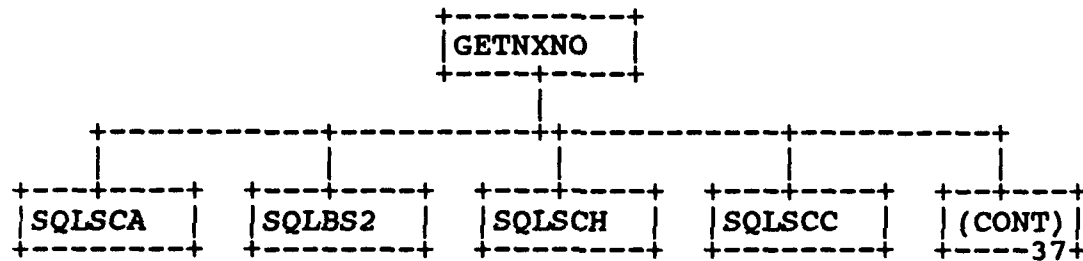
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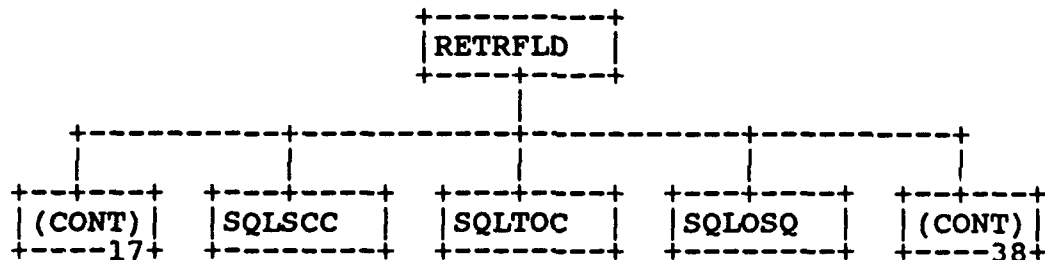
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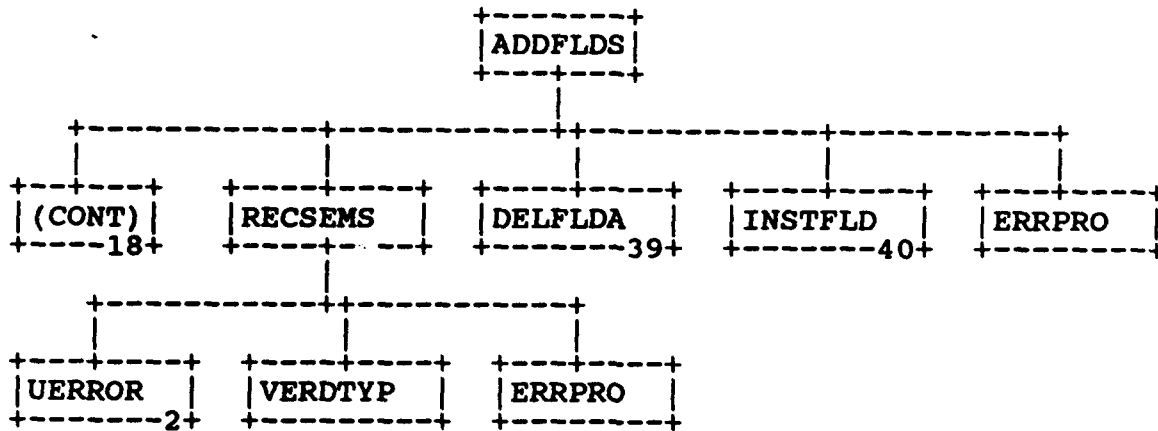
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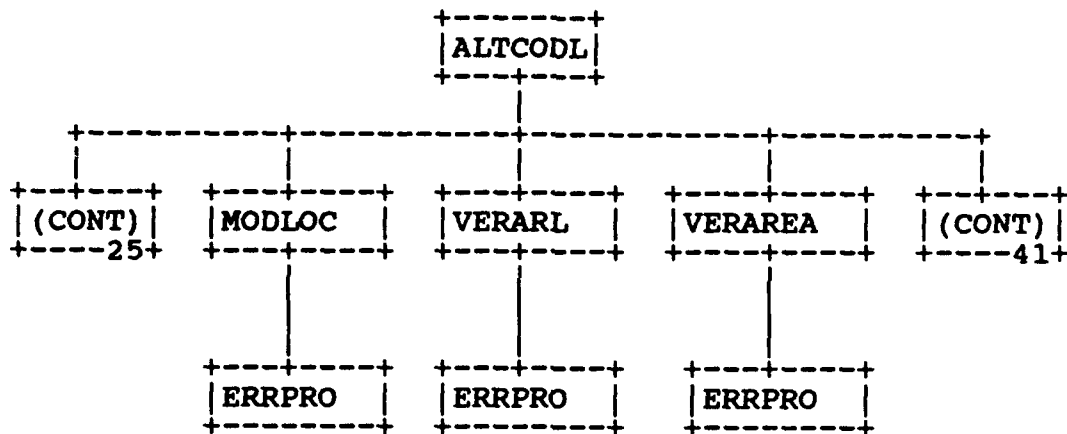
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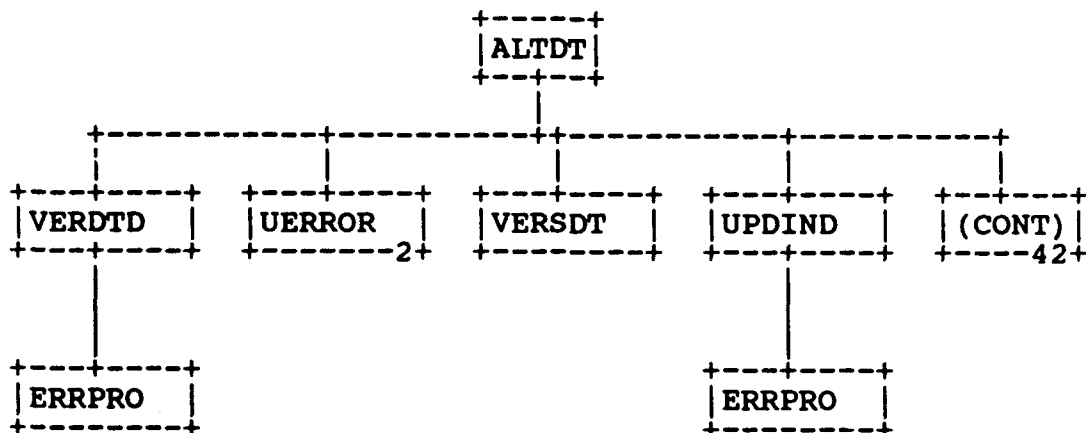
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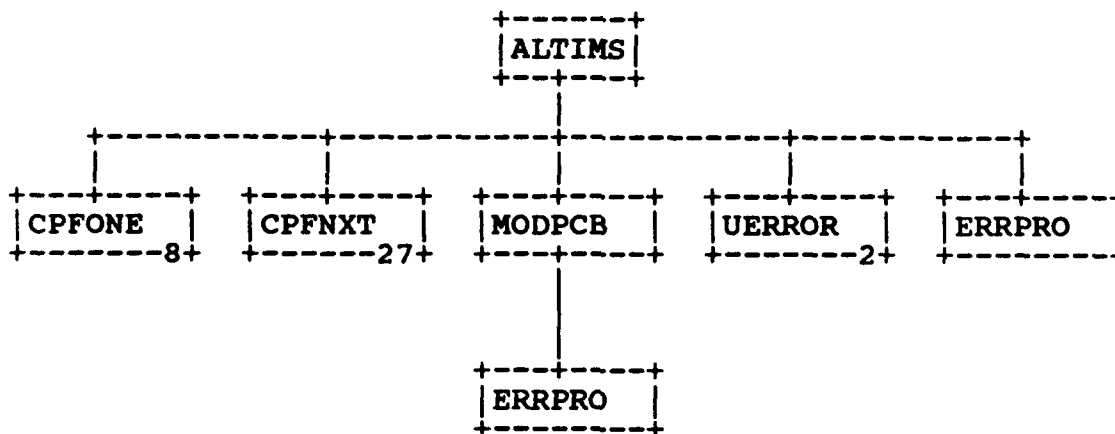
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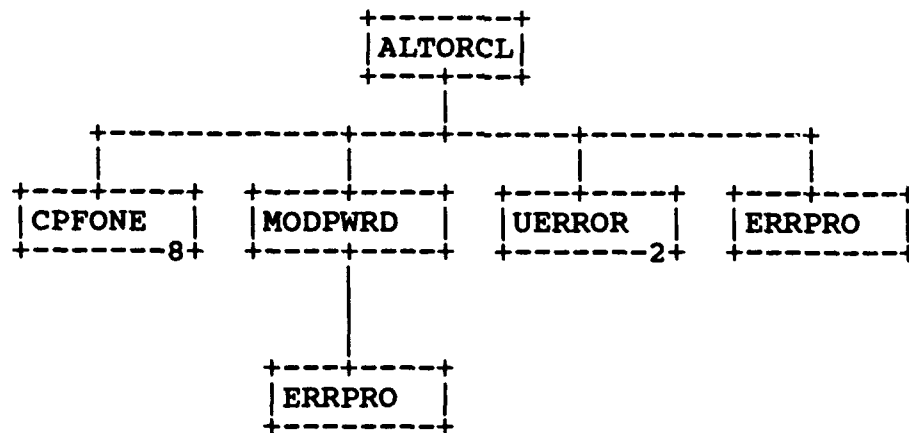
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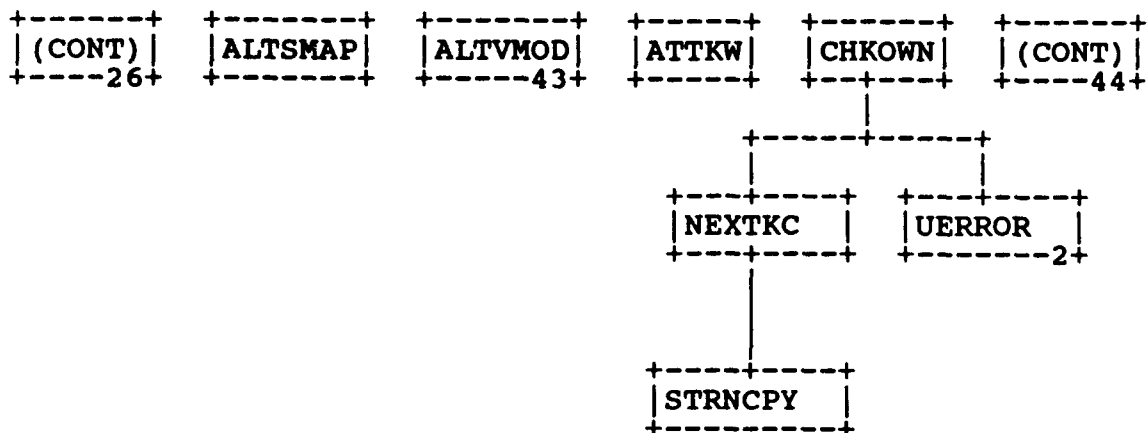
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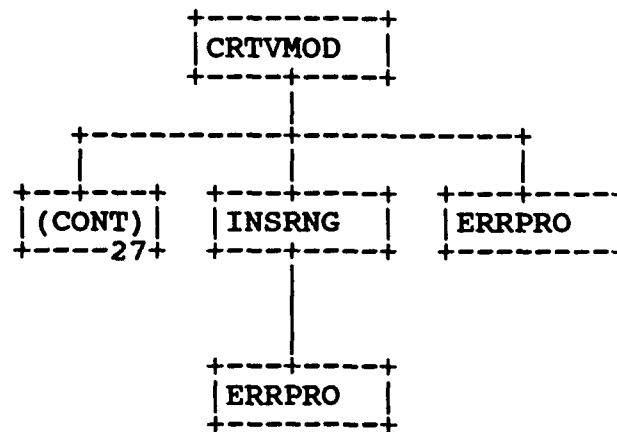
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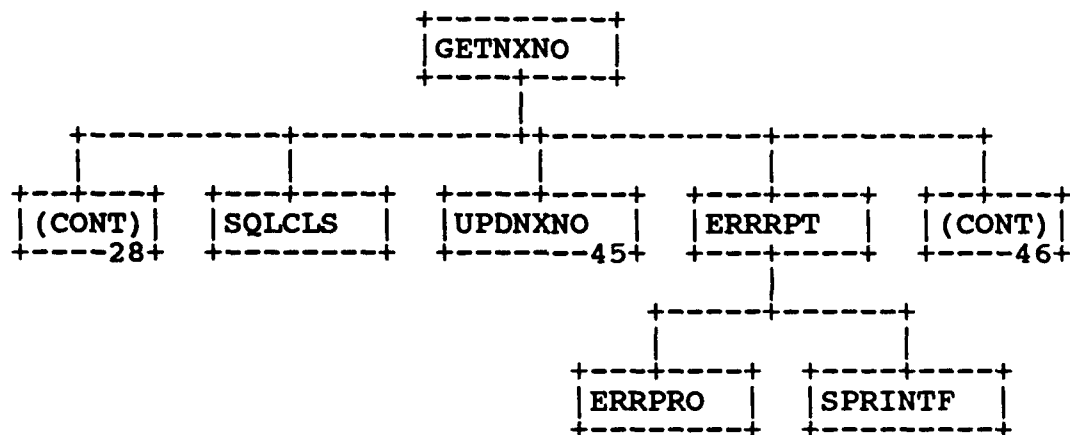
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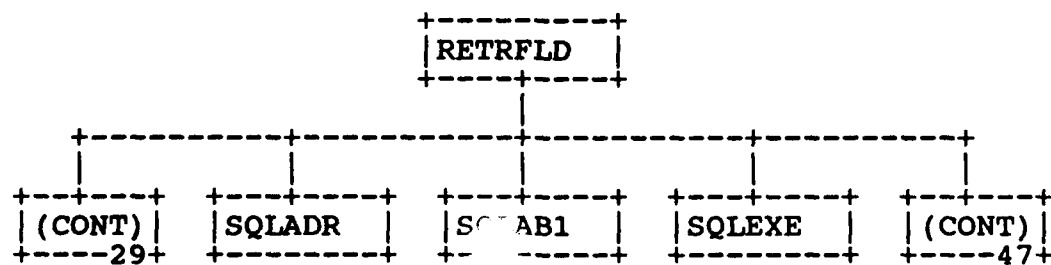
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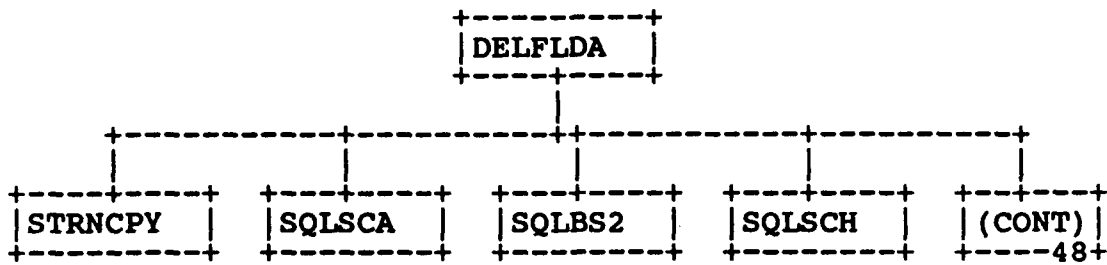
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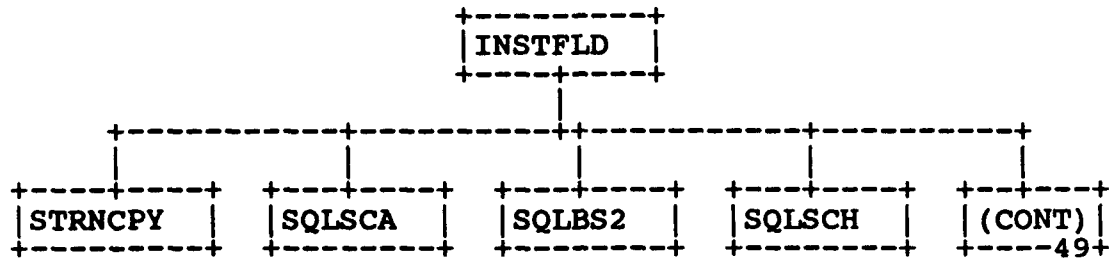
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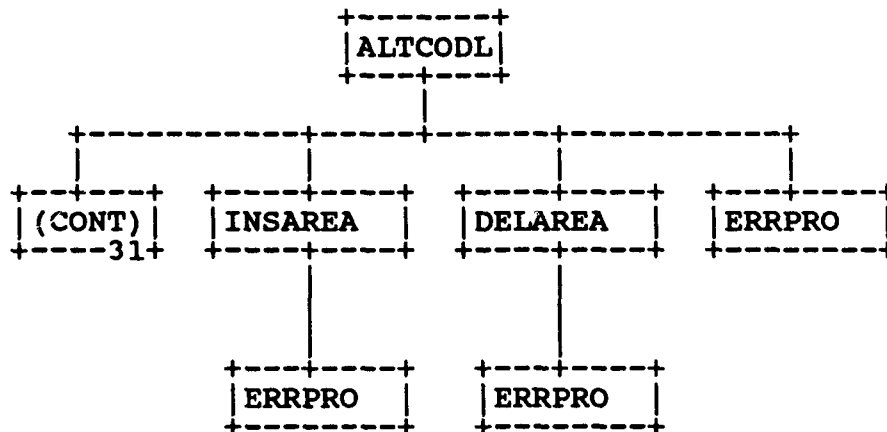
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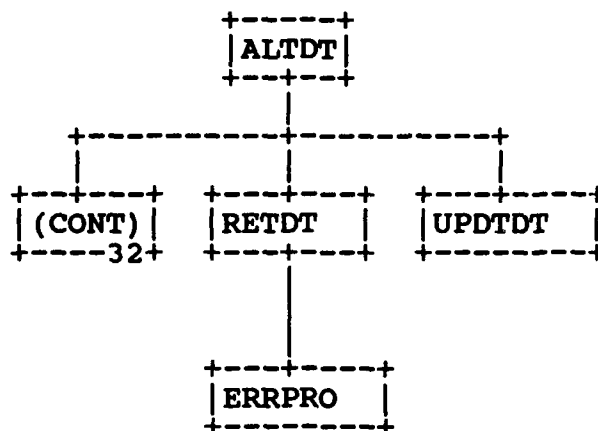
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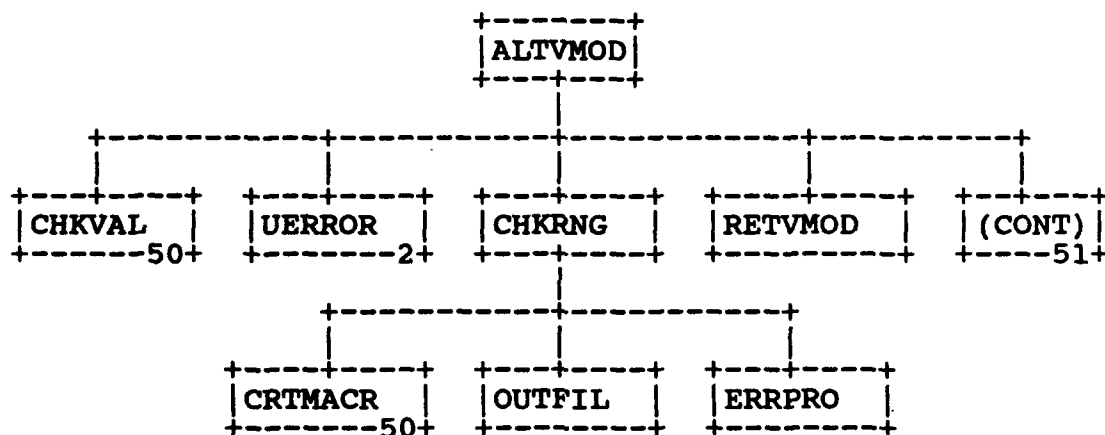
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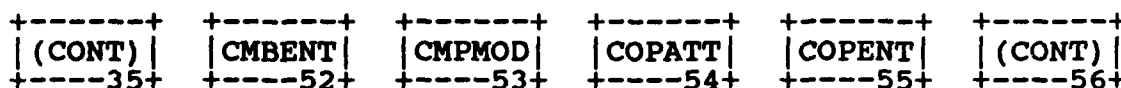
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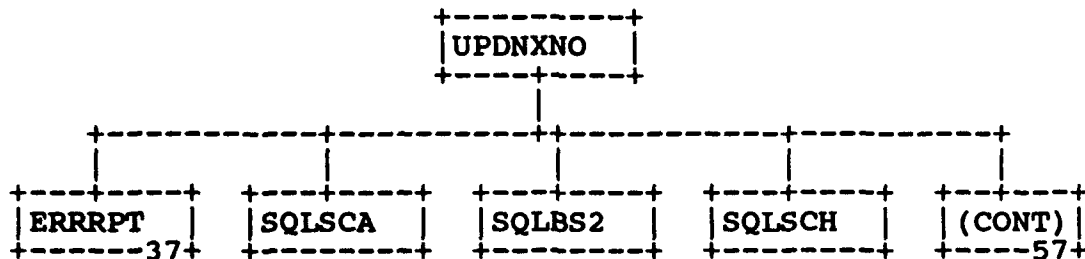
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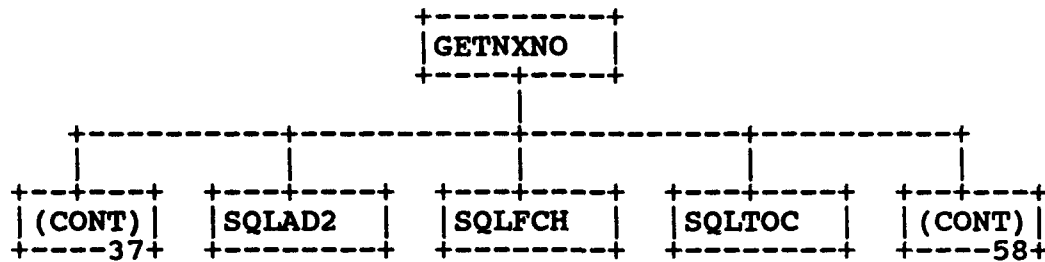
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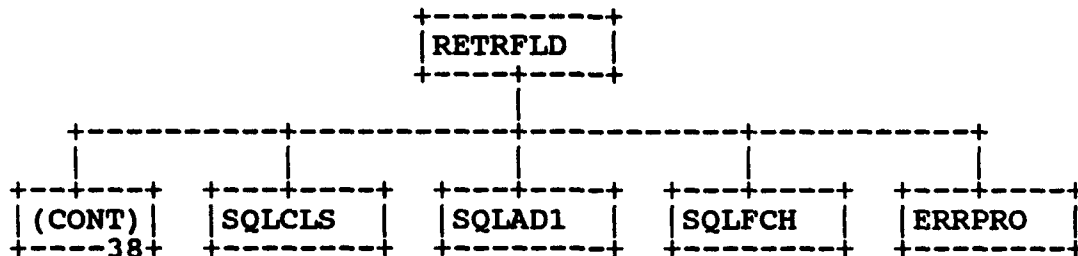
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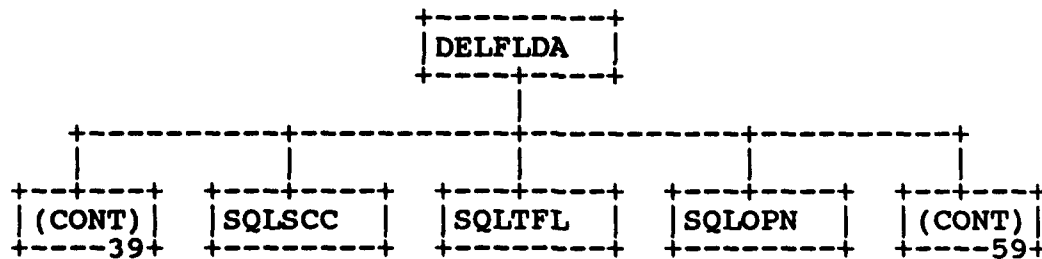
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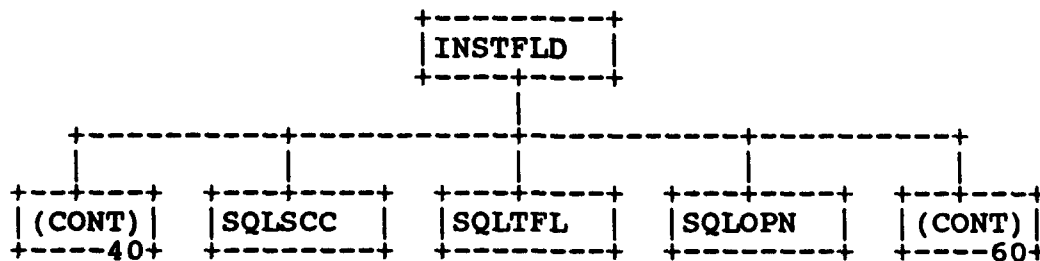
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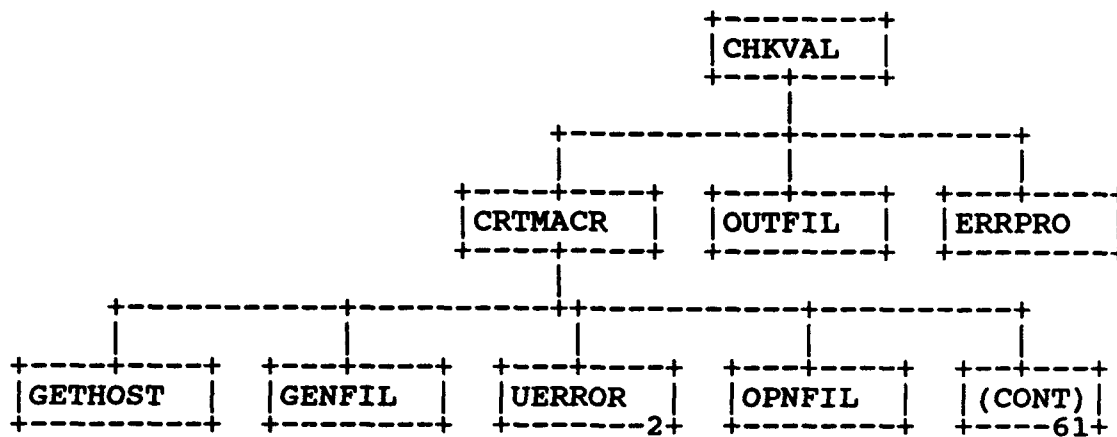
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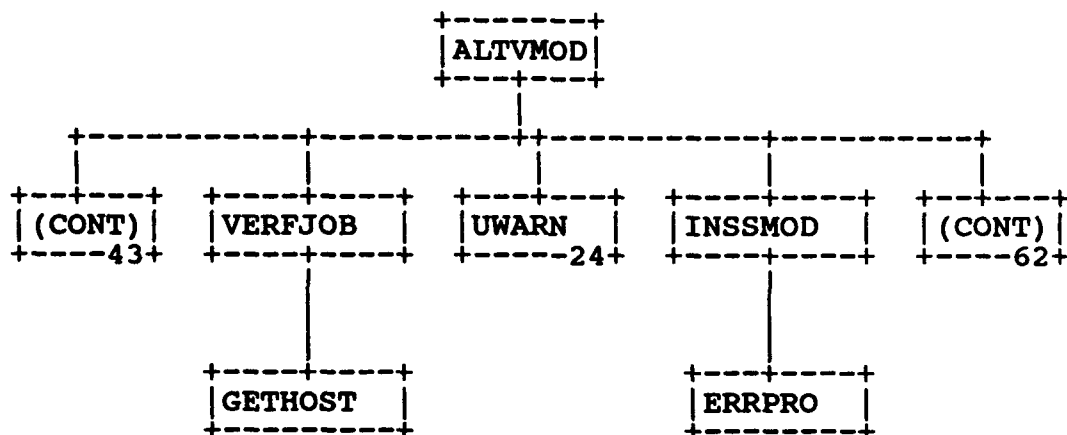
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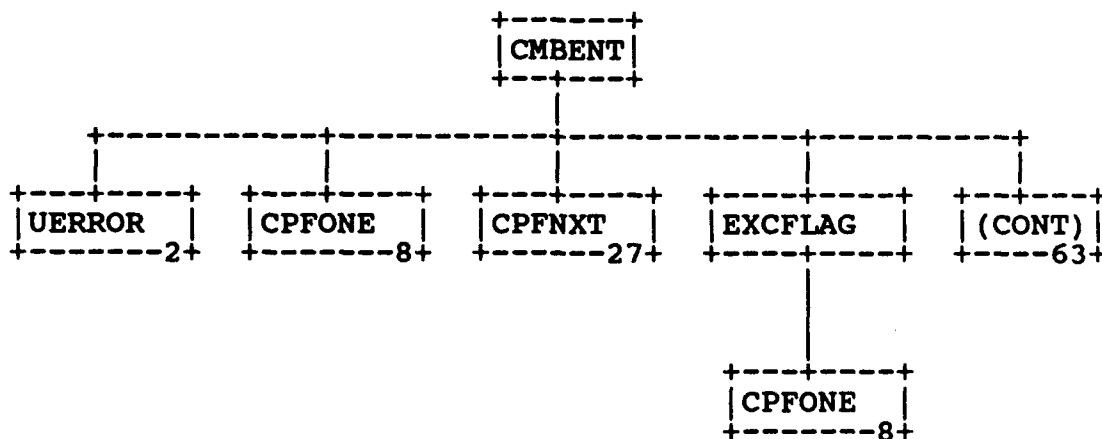
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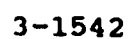


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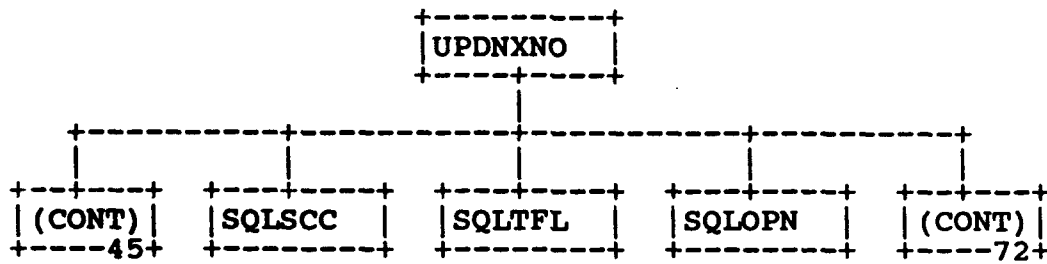


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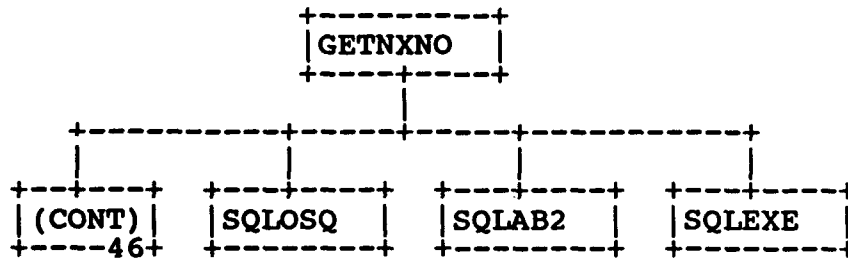




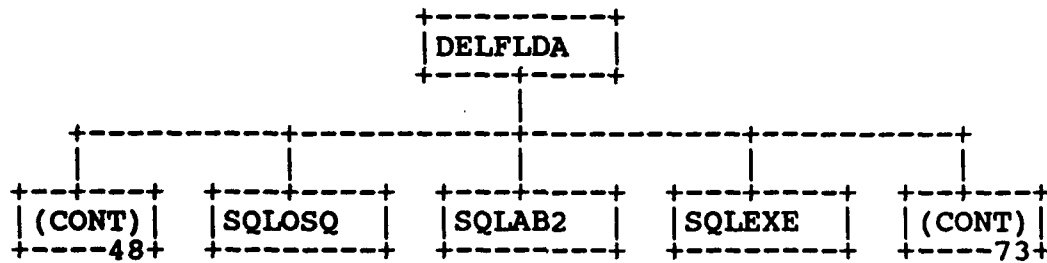
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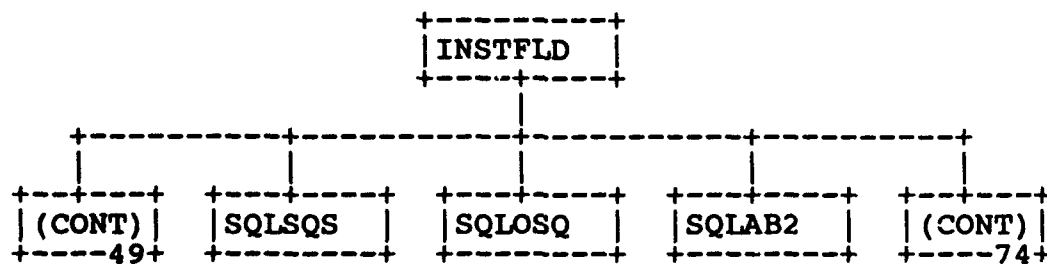
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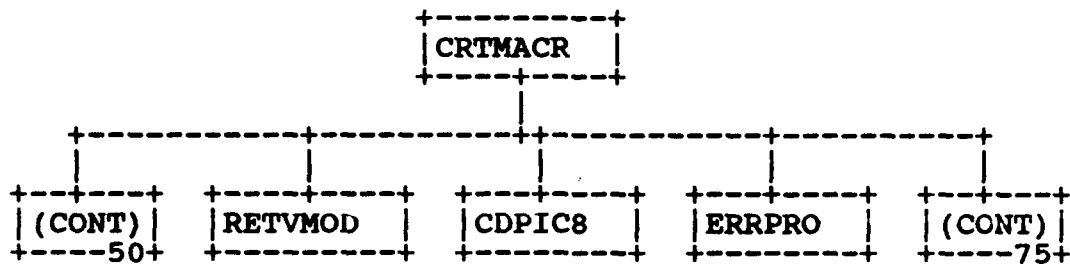
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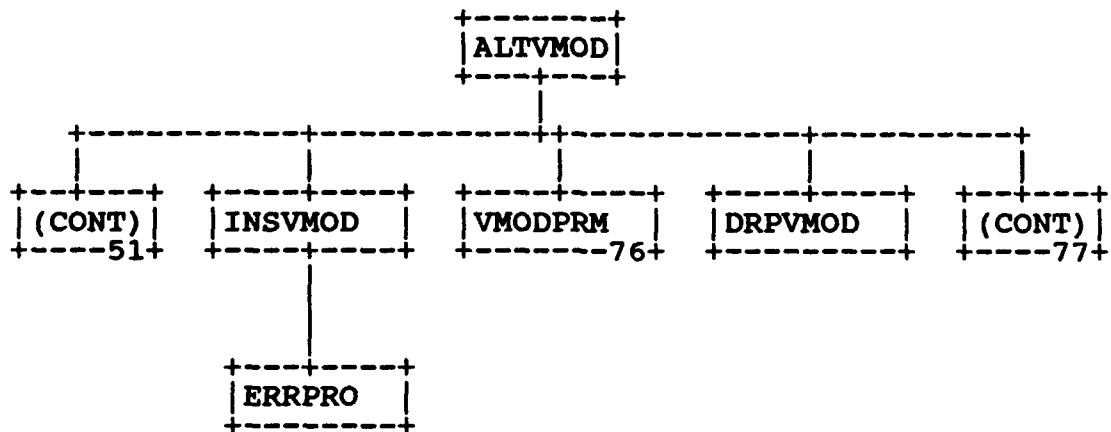
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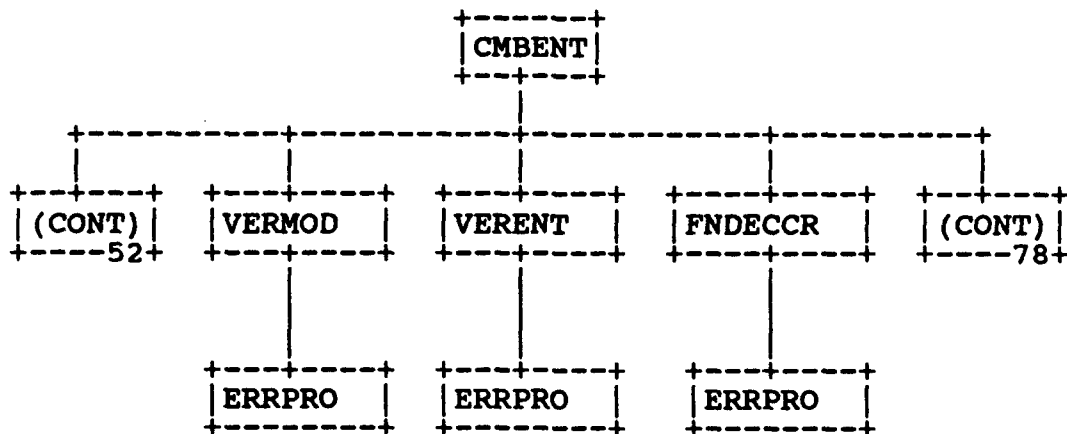
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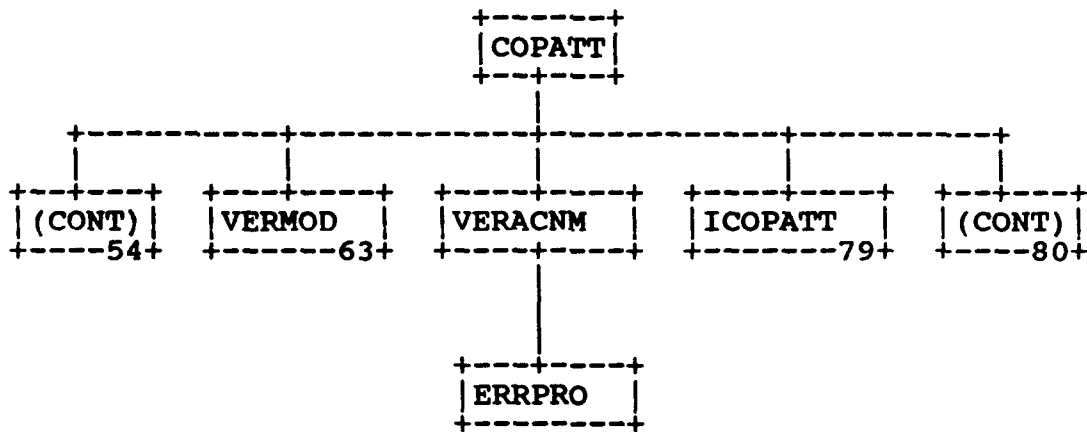
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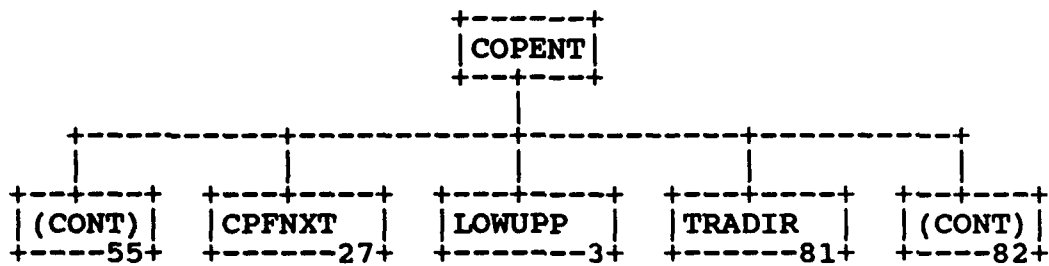
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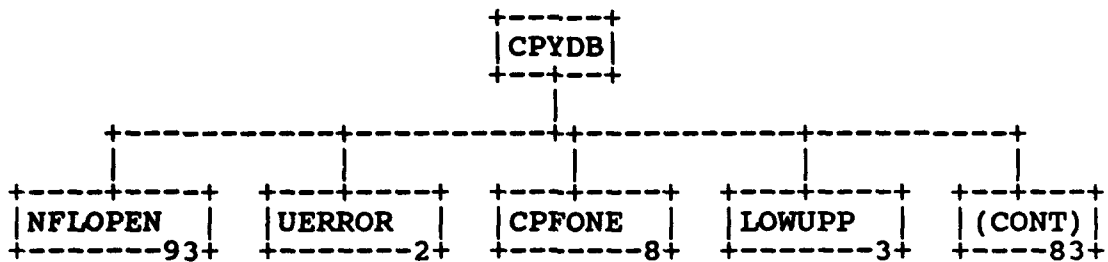
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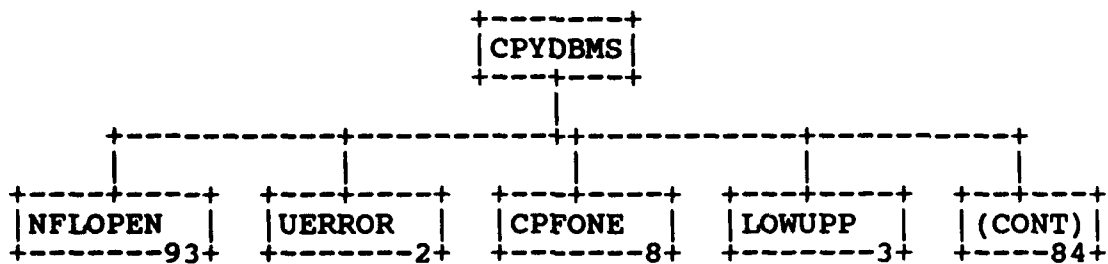
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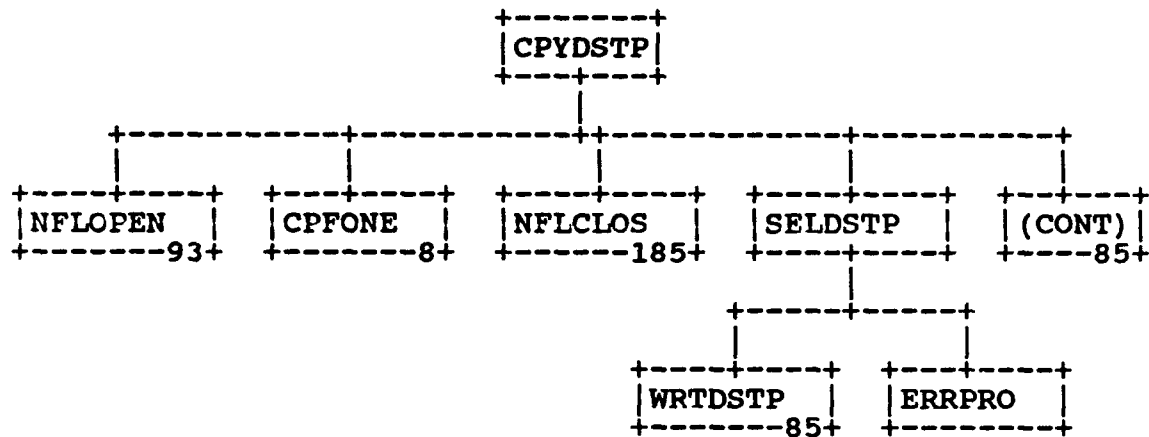
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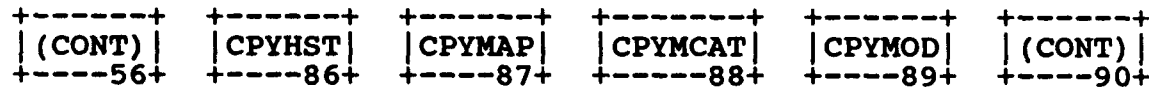
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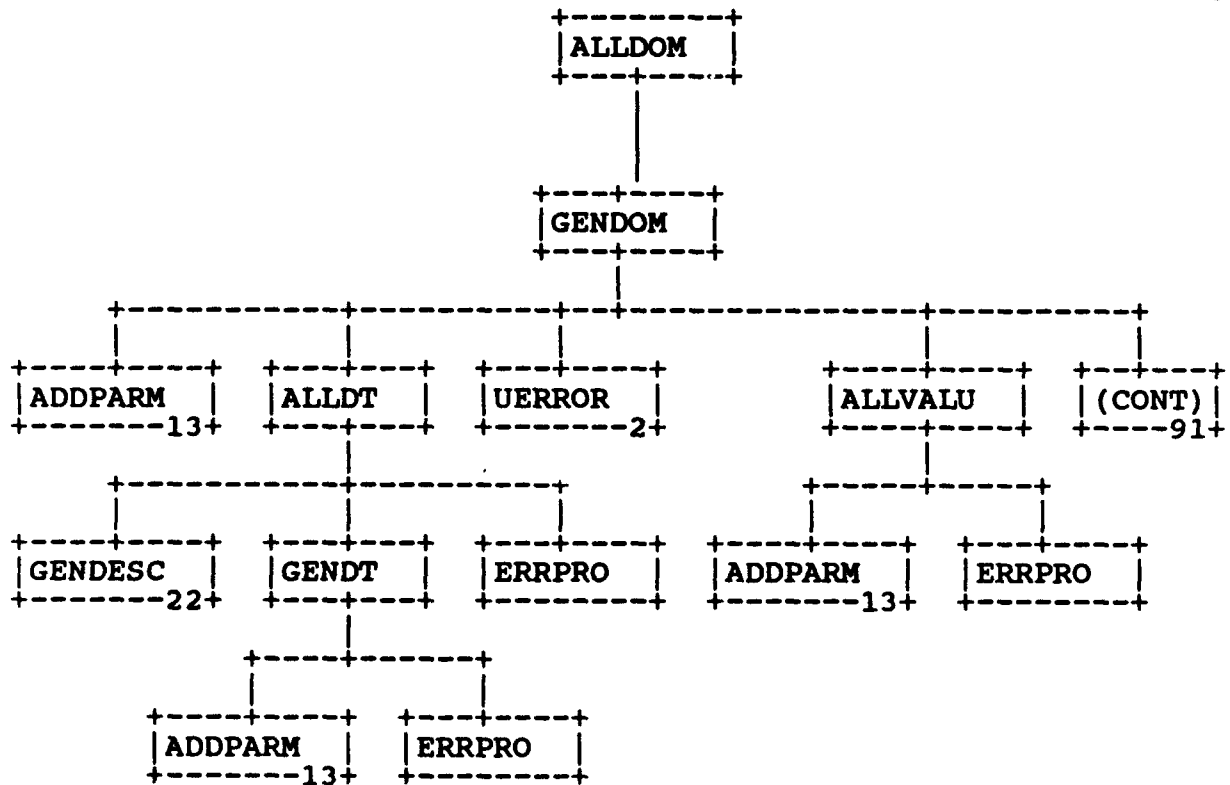
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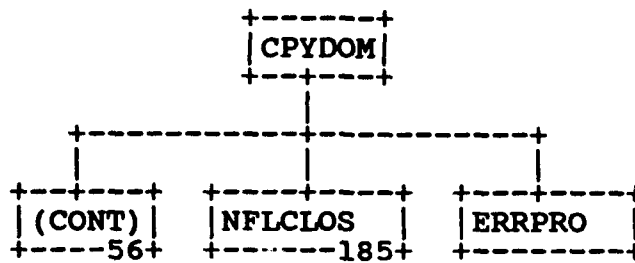
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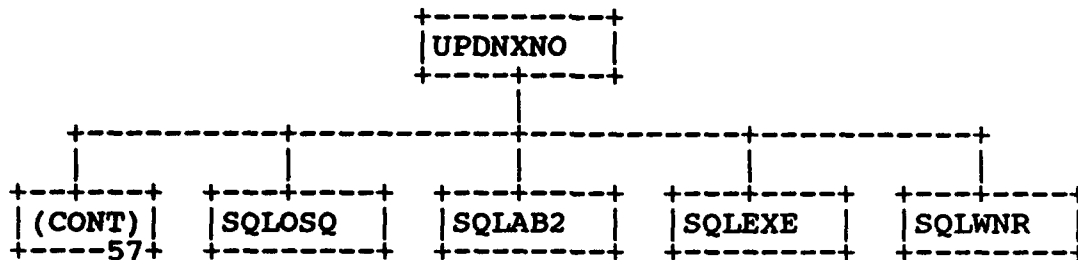
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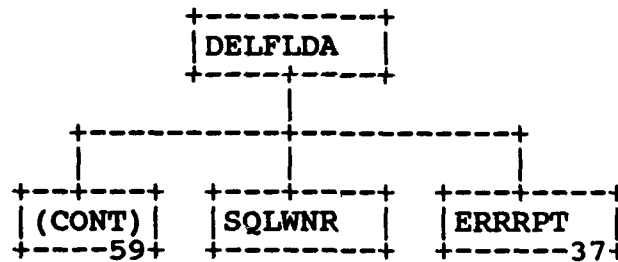
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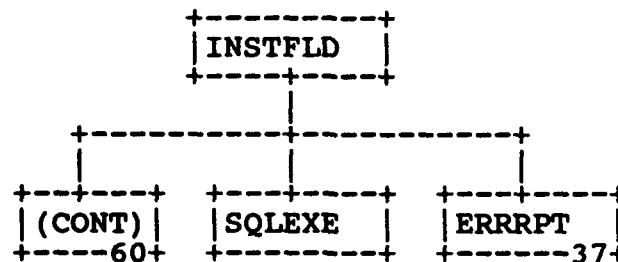
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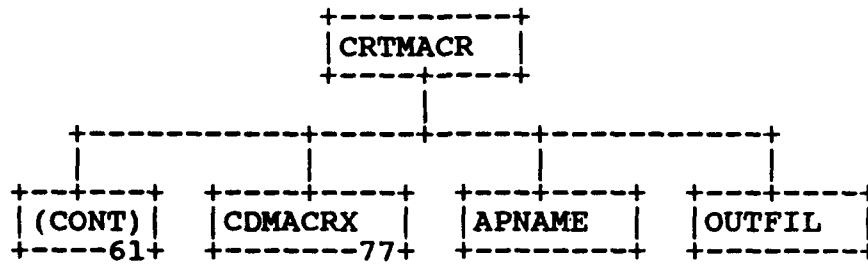
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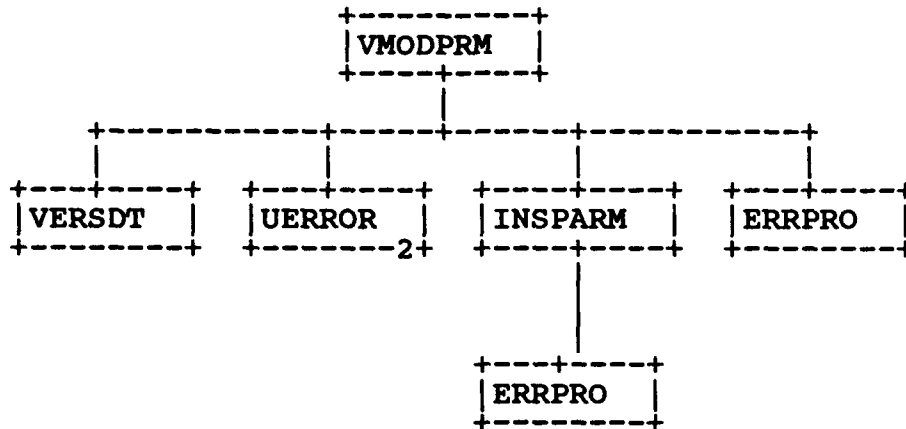
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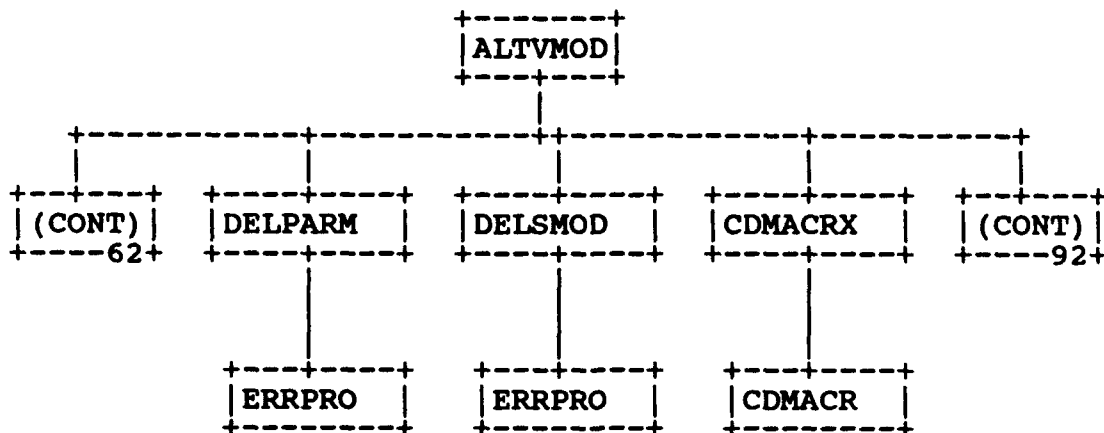
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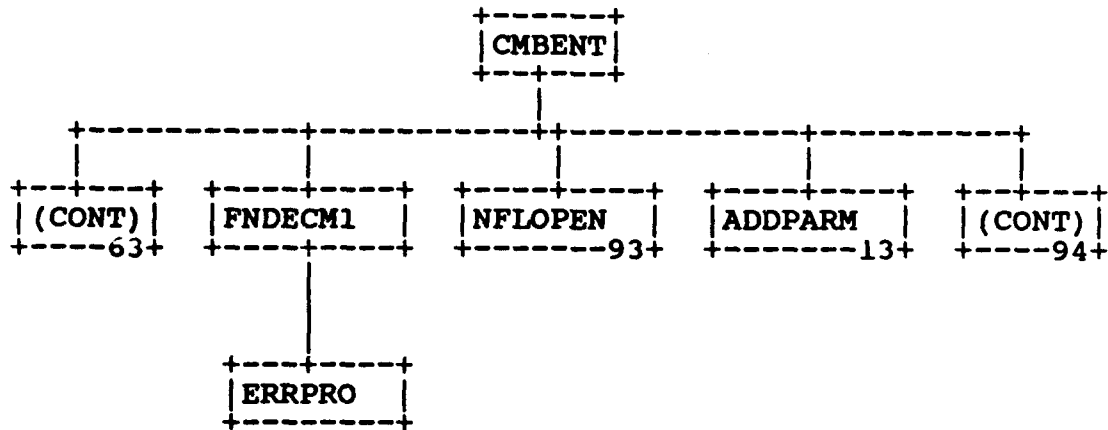
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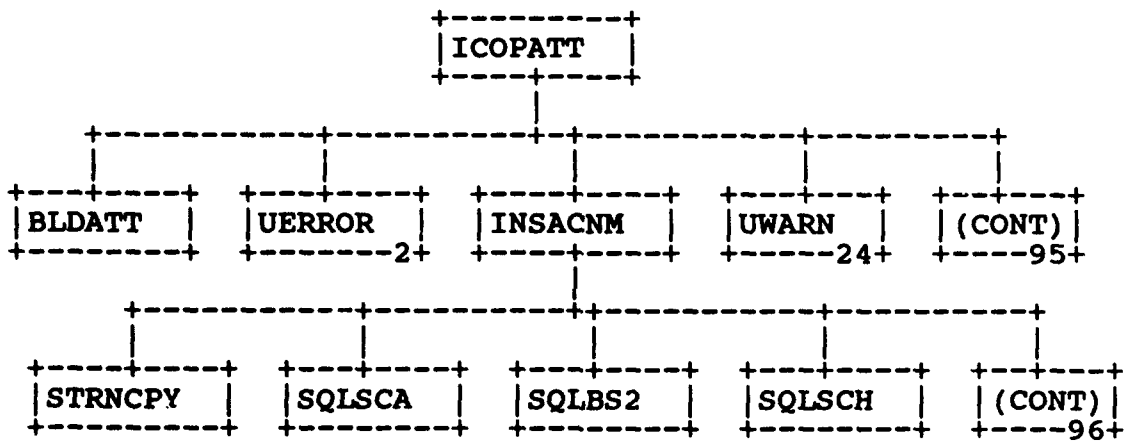
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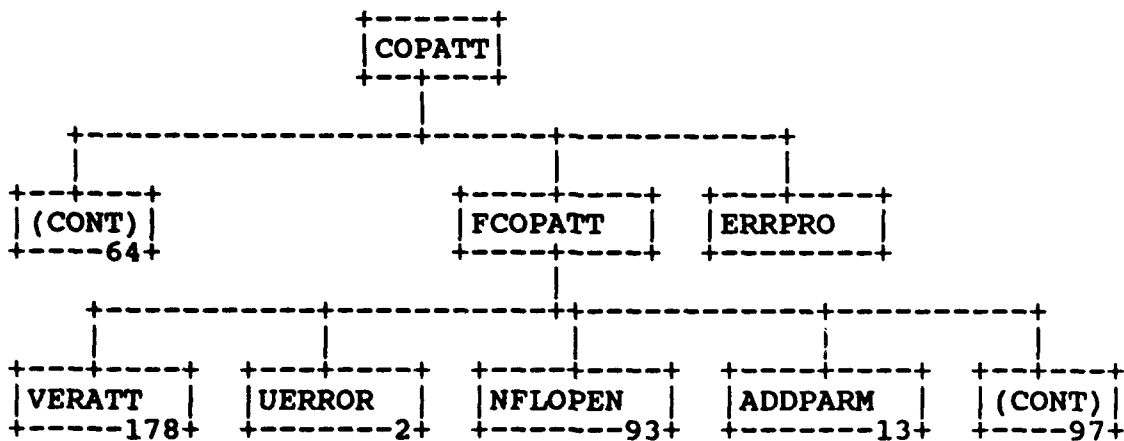
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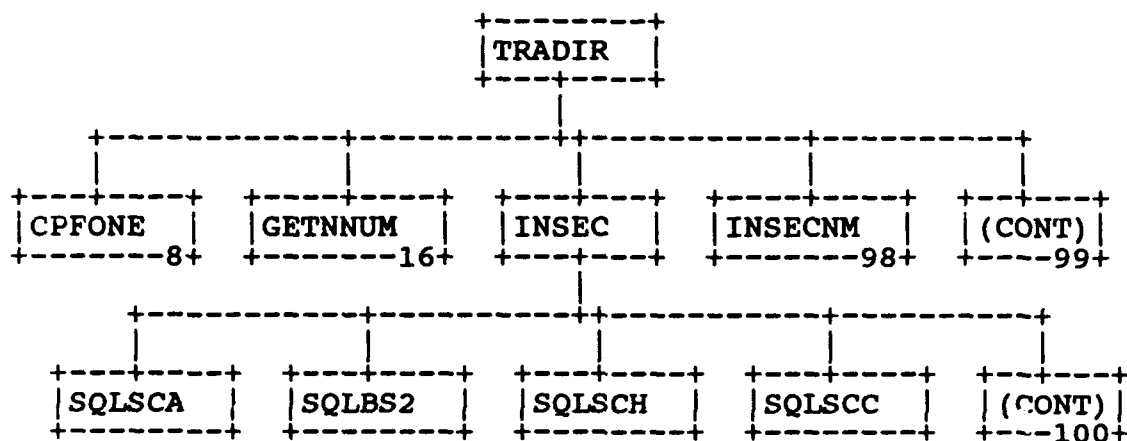
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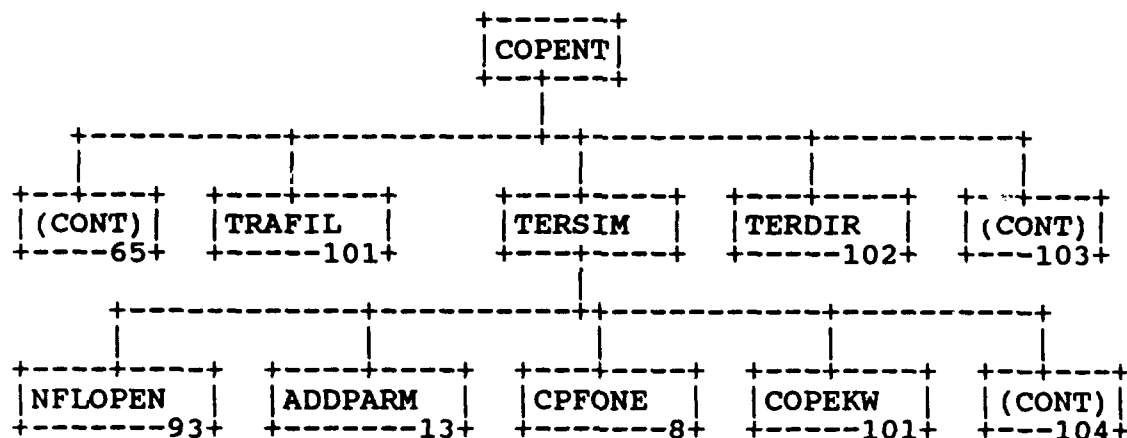
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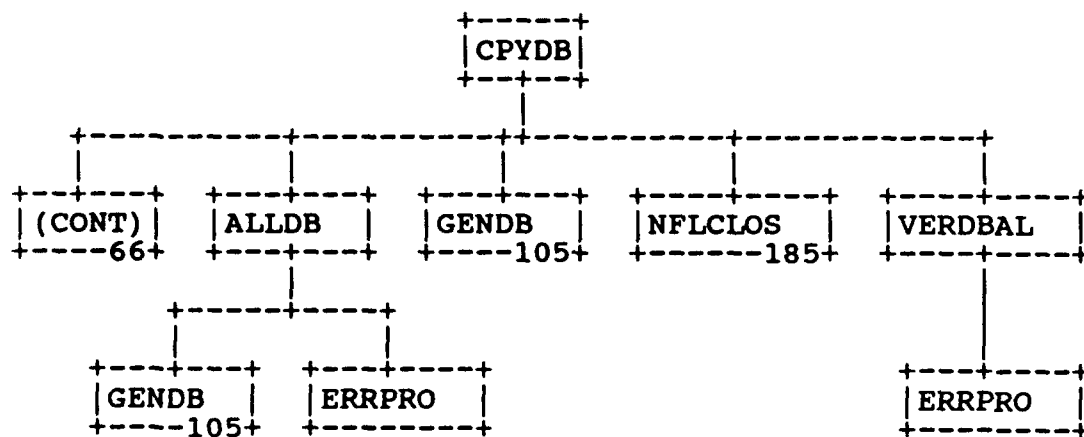
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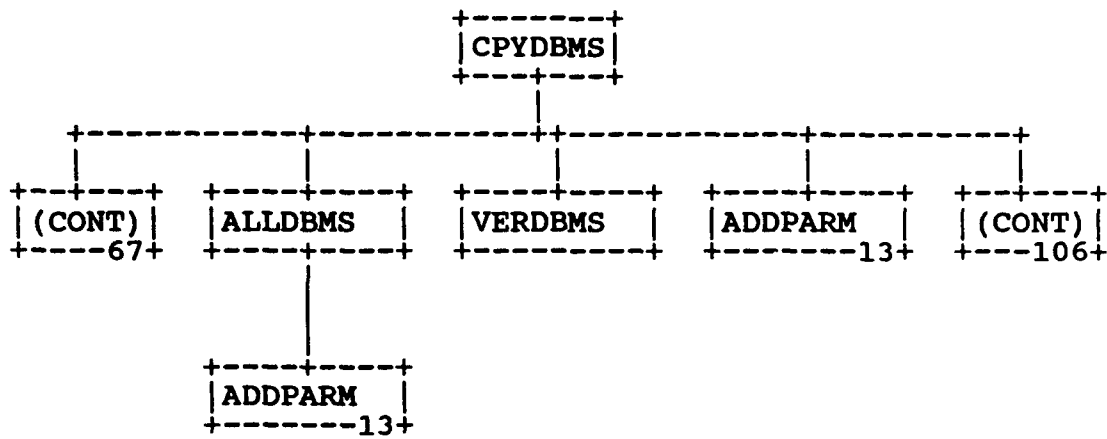
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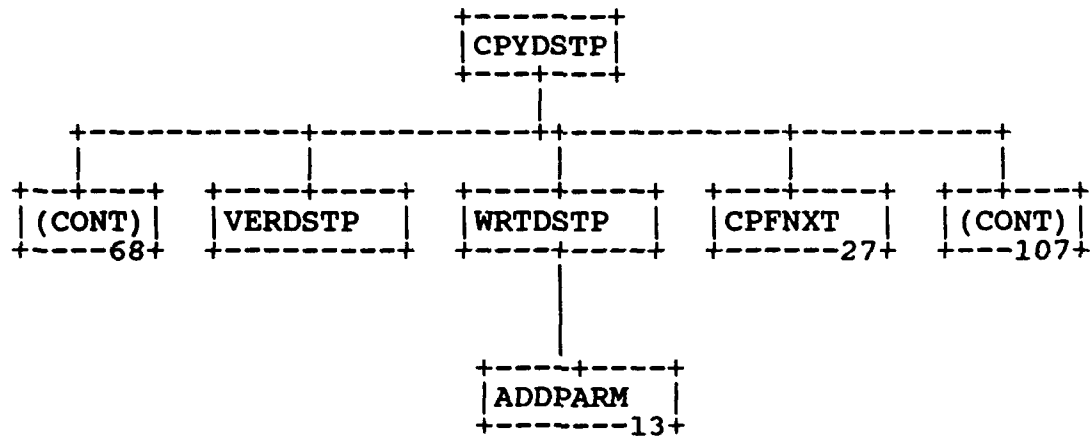
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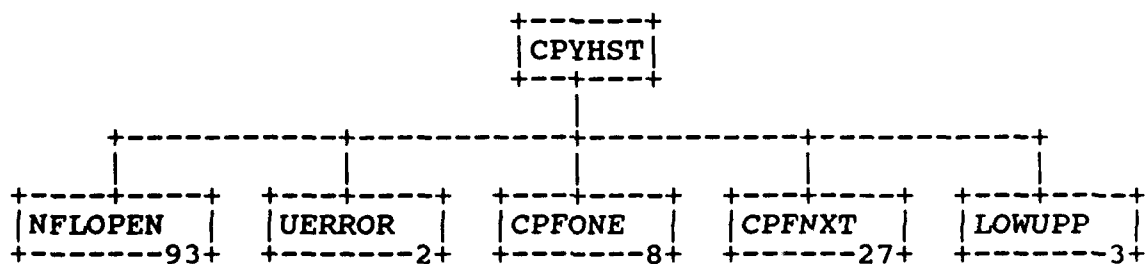
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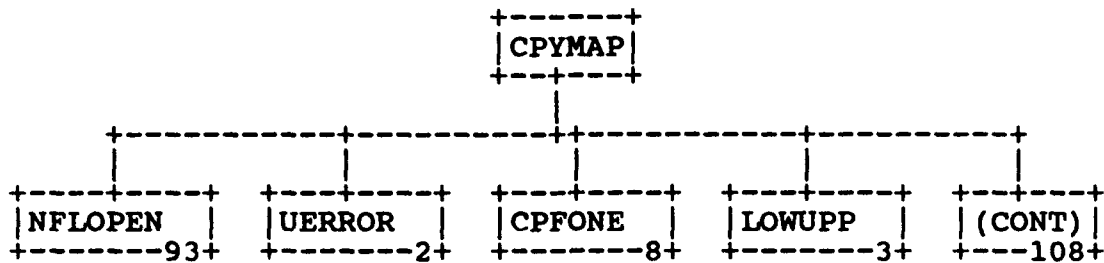
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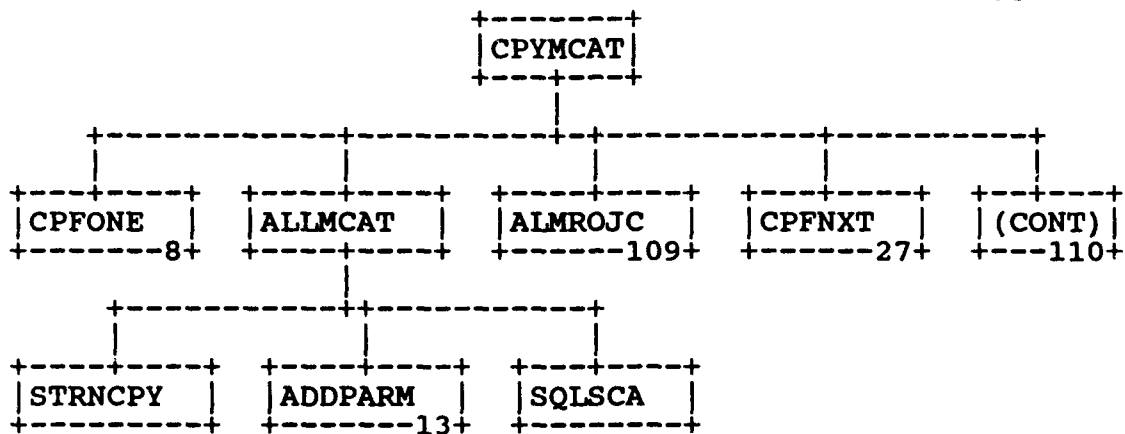
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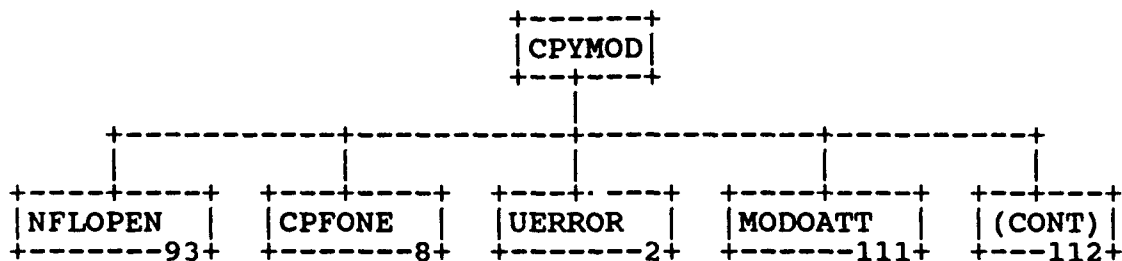
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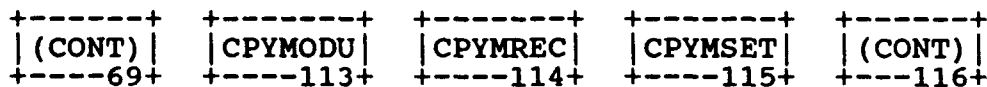
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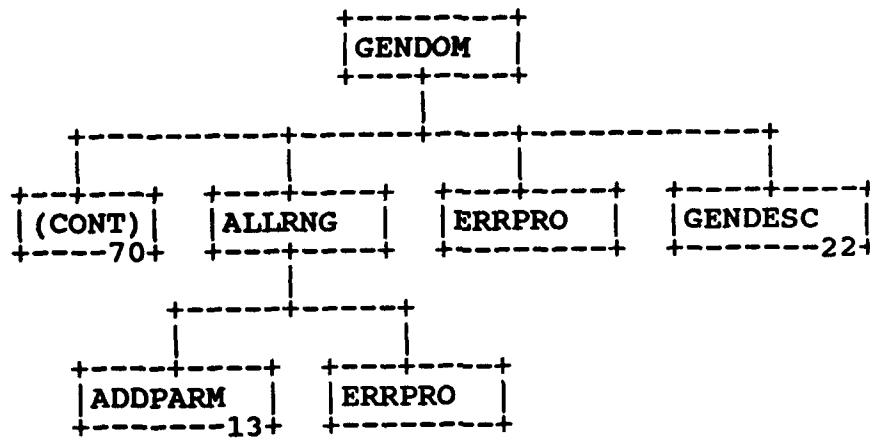
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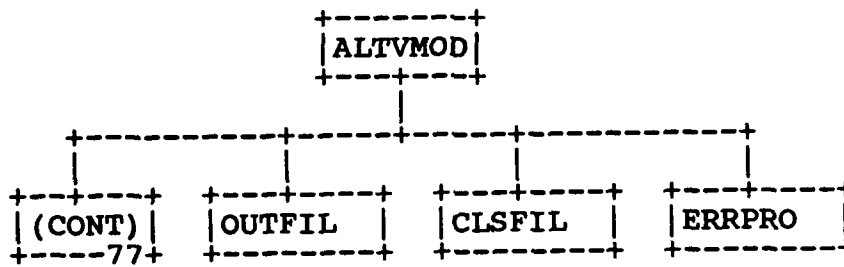
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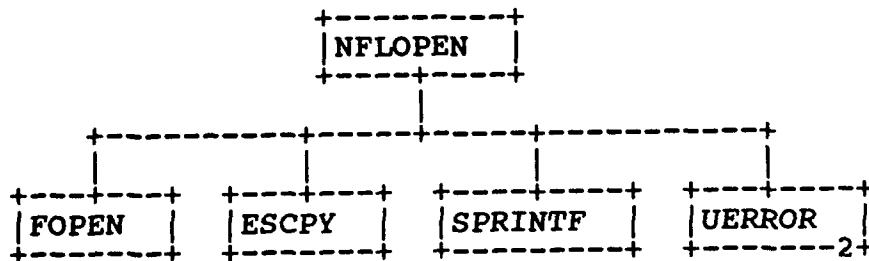
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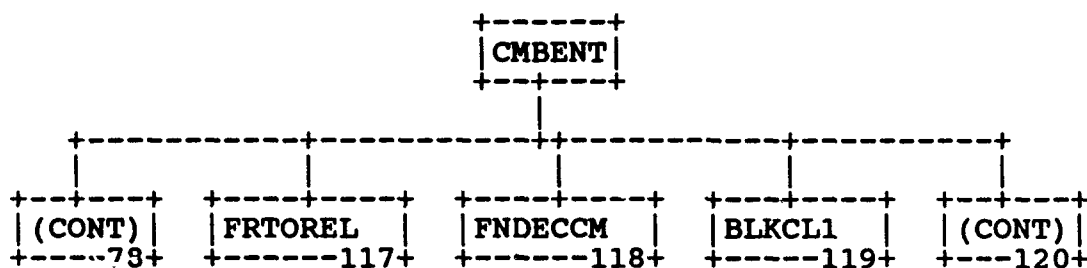
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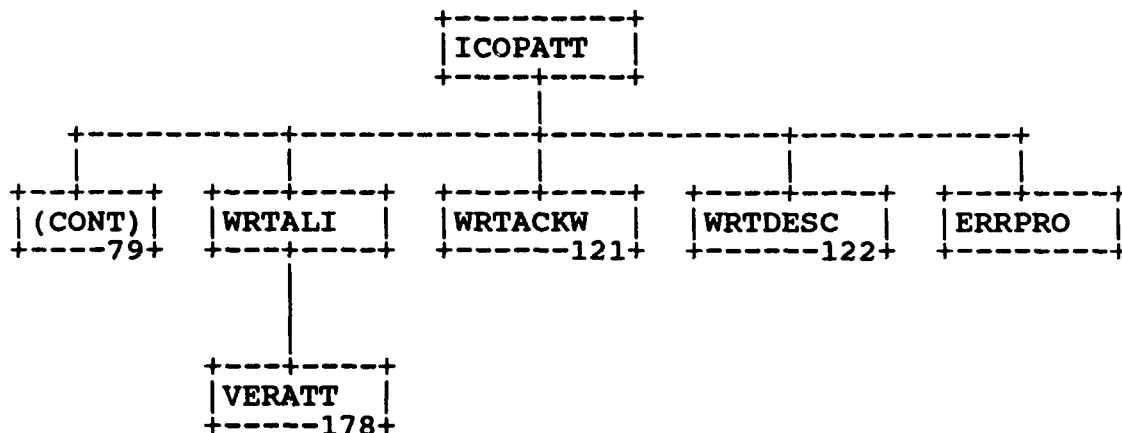
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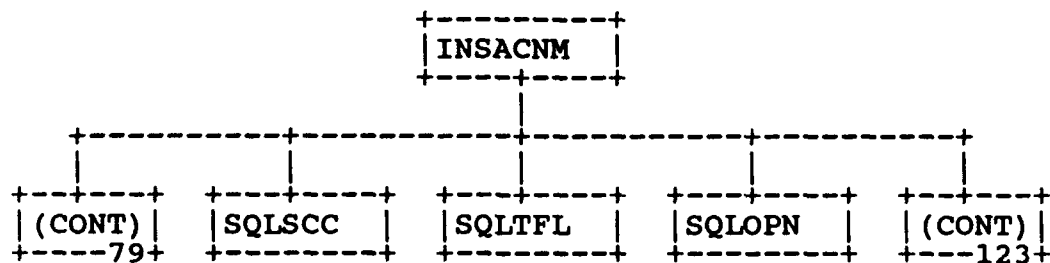
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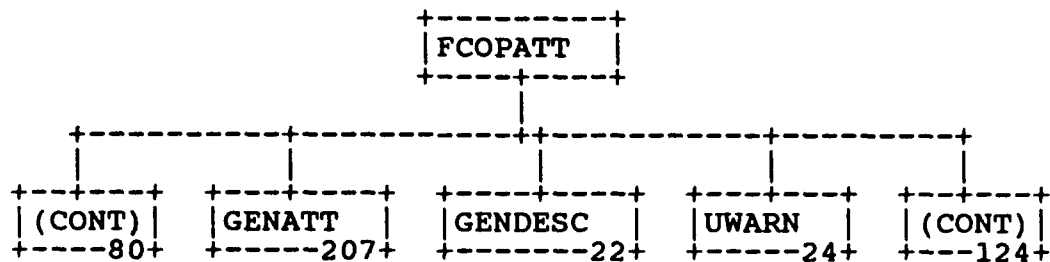
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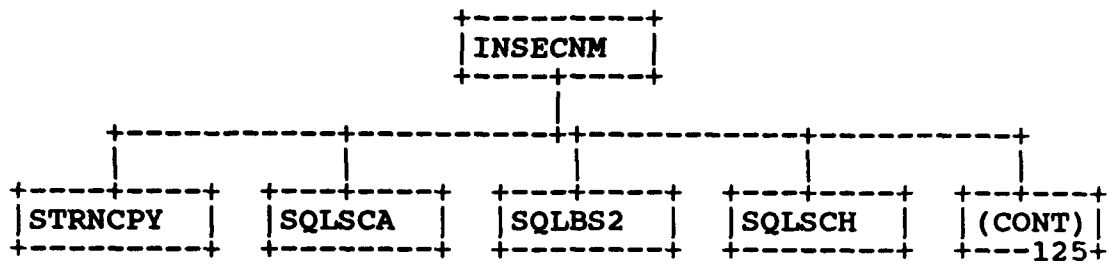
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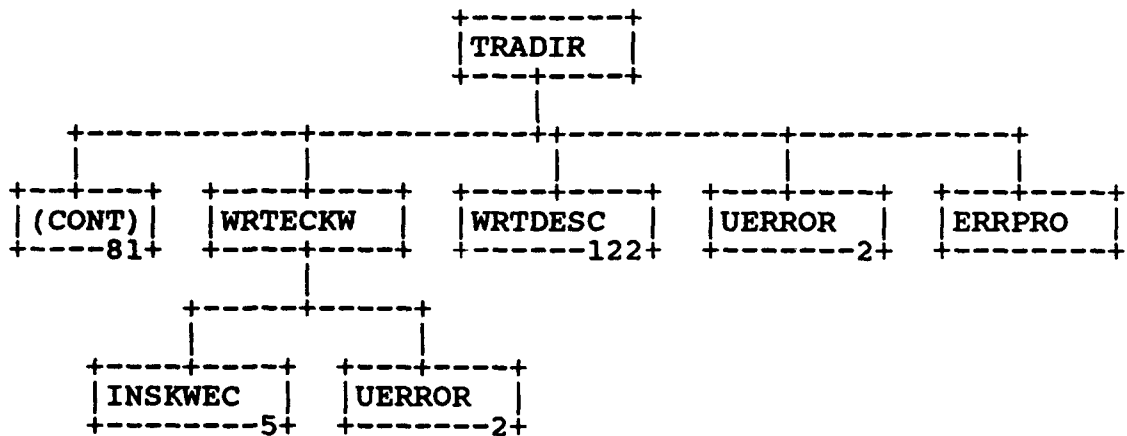
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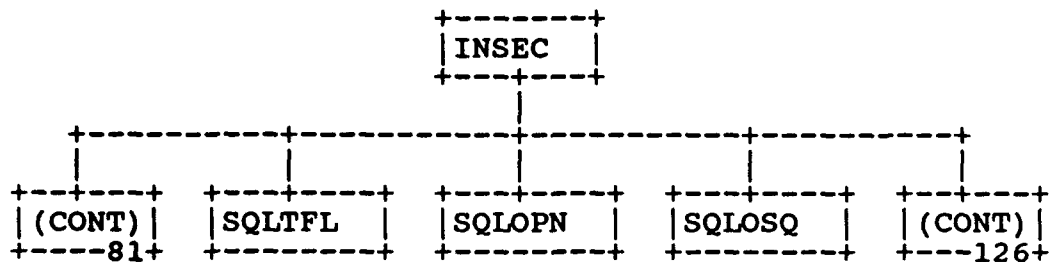
98



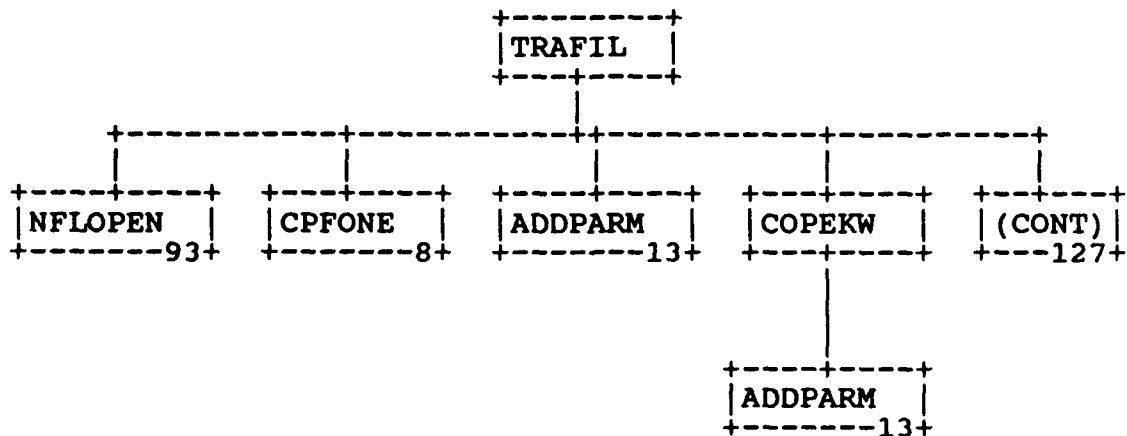
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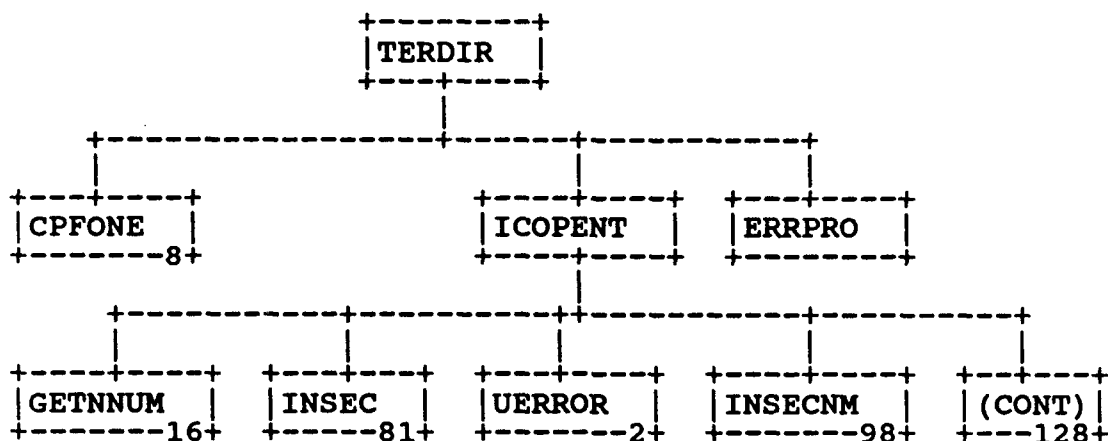
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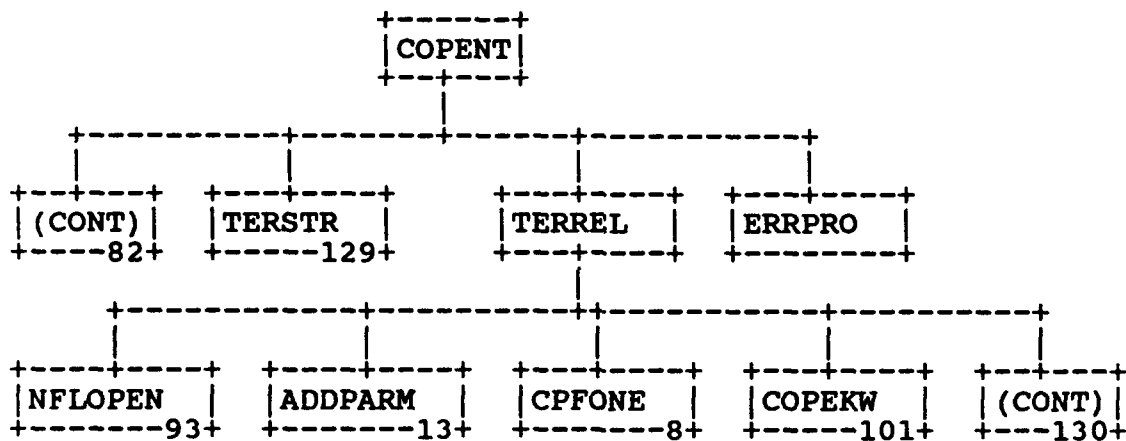
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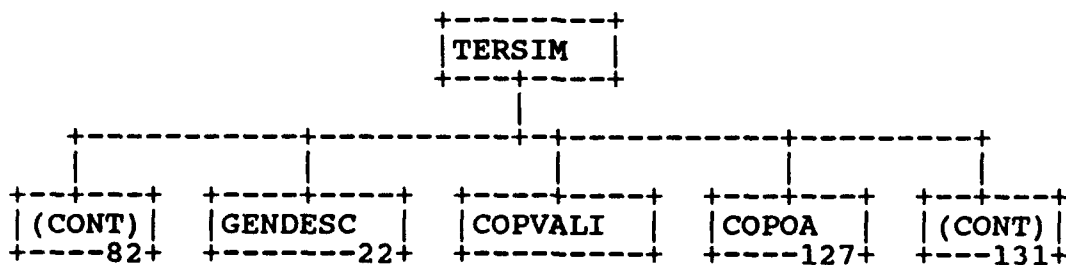
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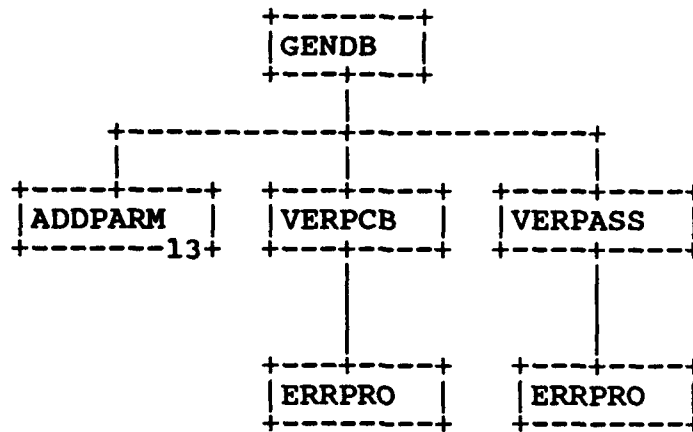
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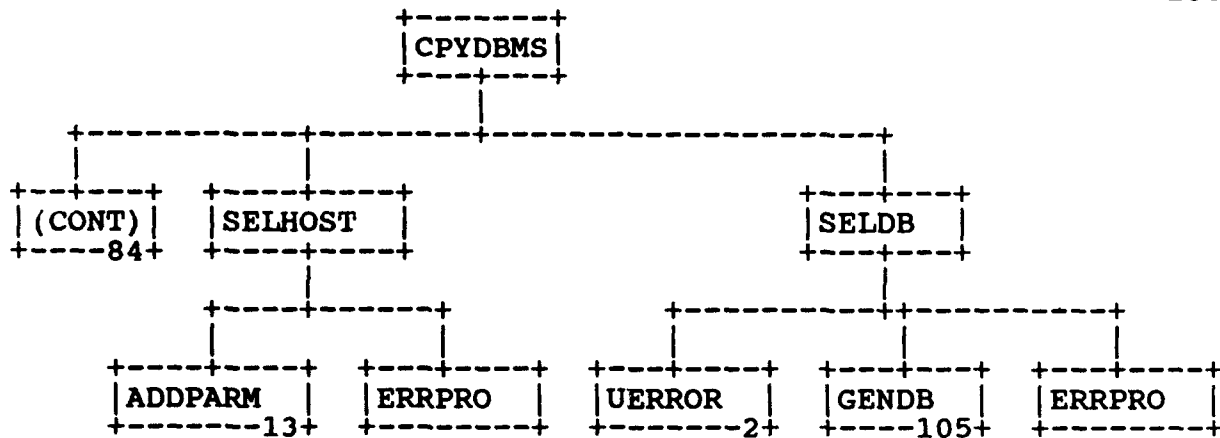
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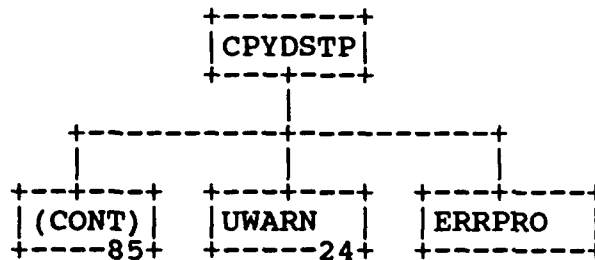
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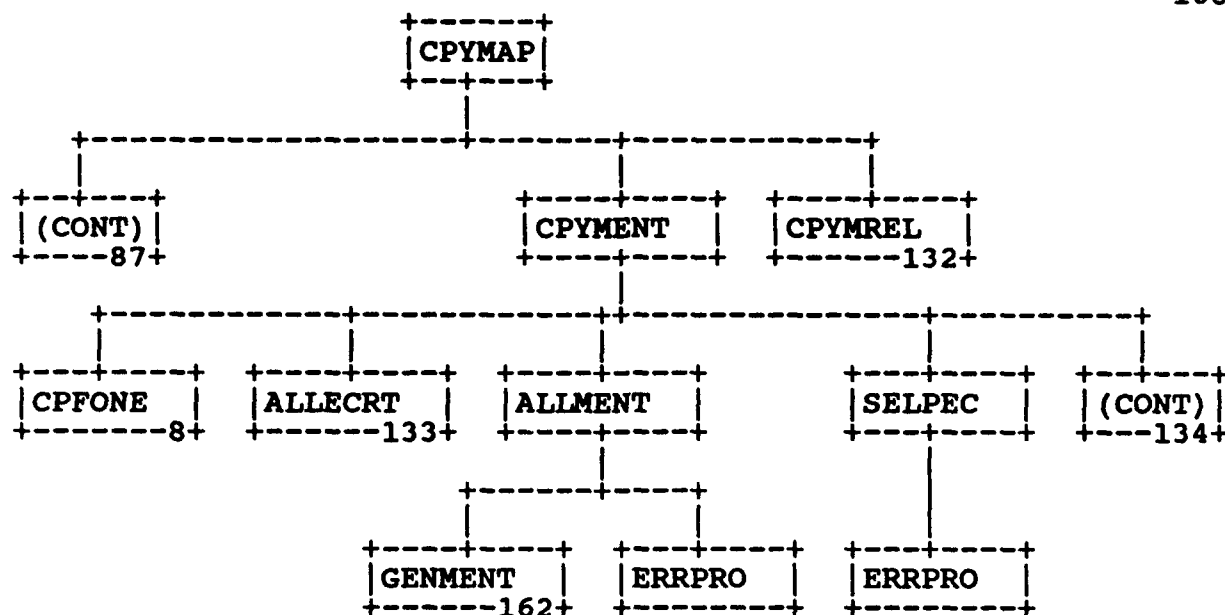
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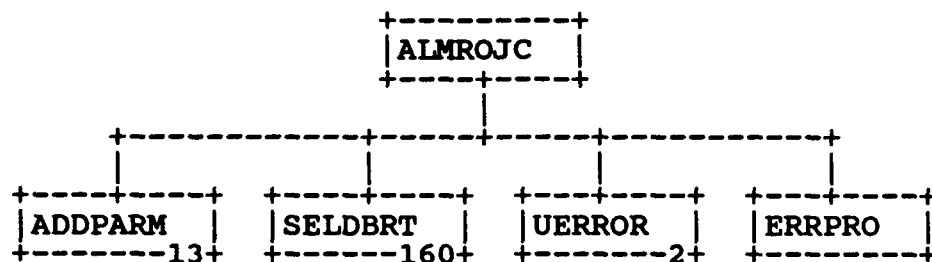
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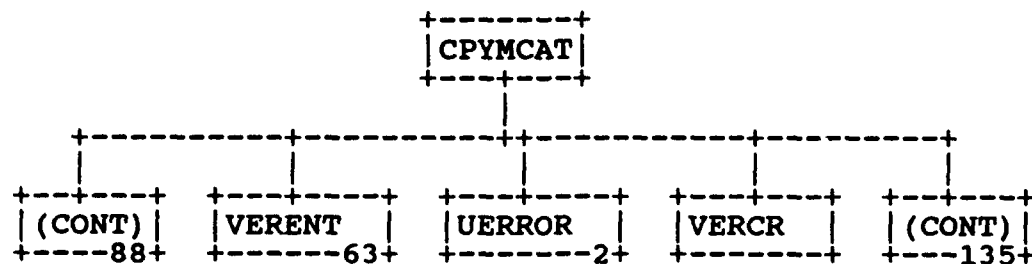
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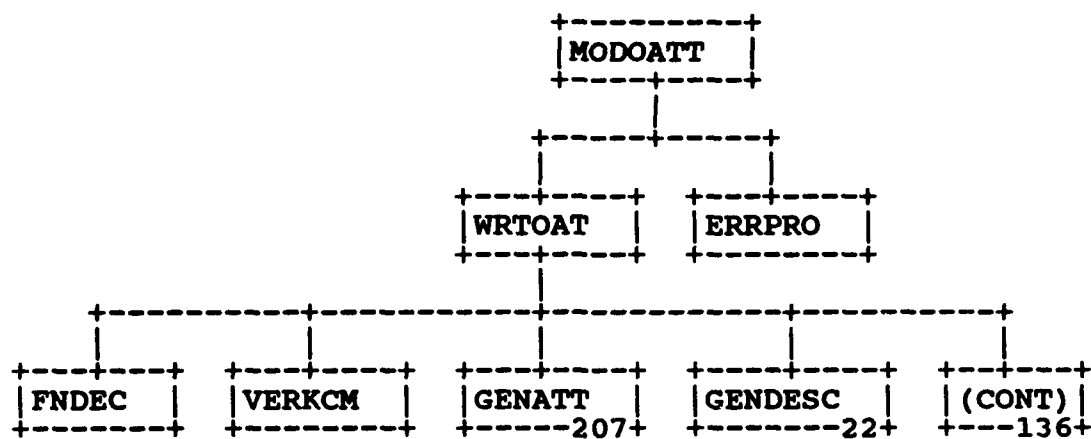
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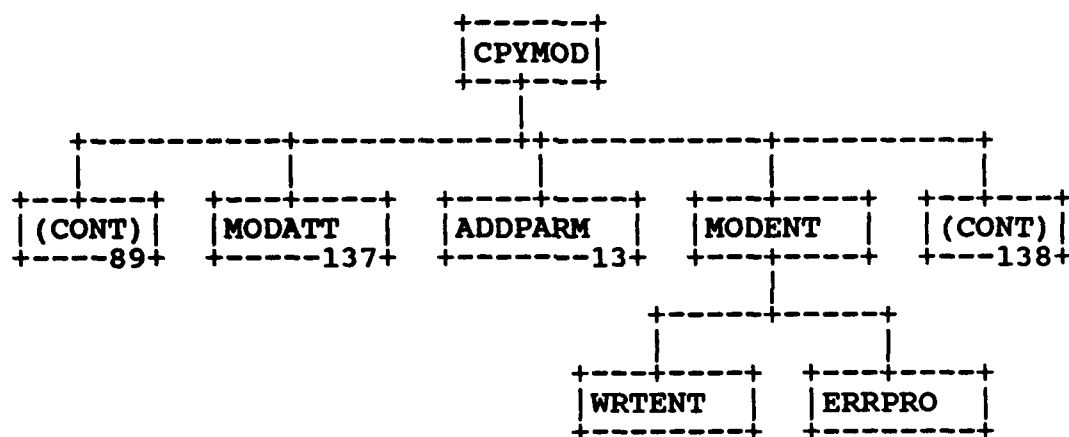
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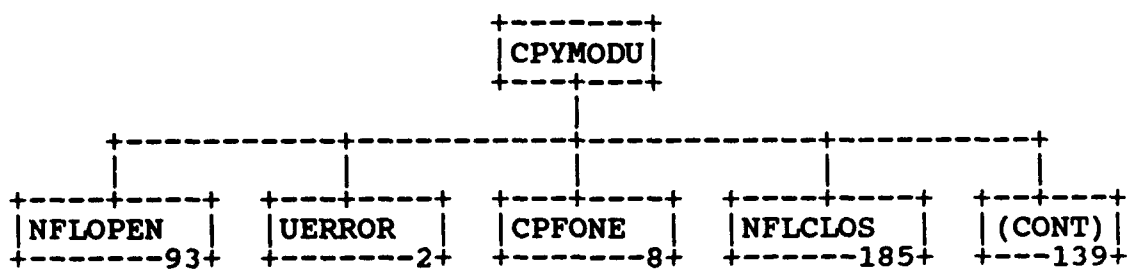
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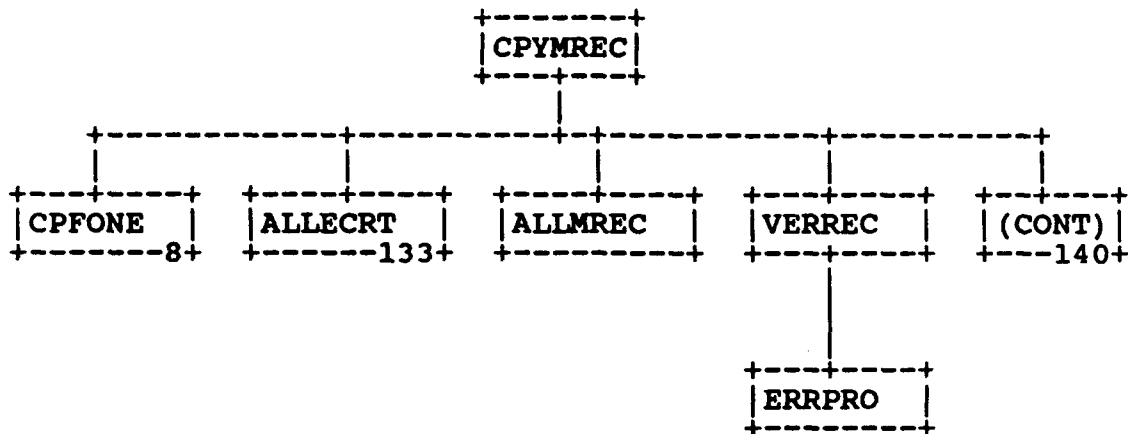
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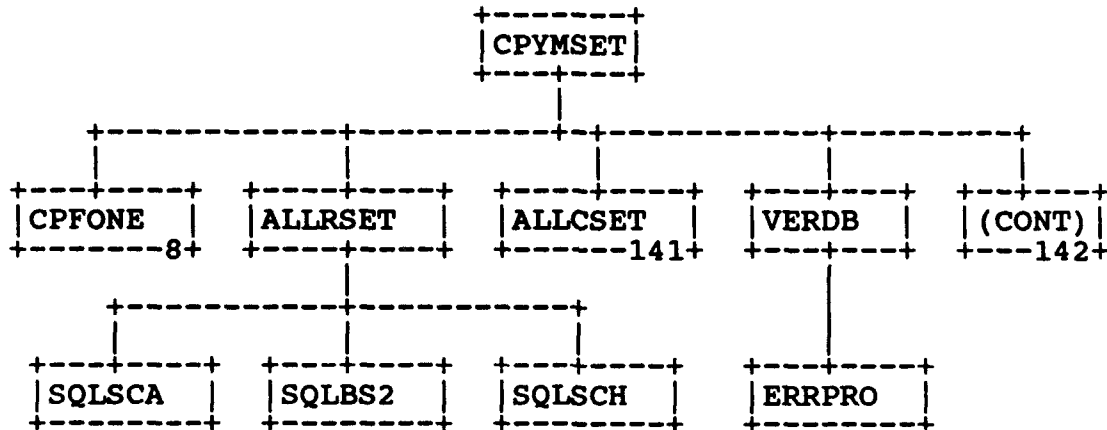
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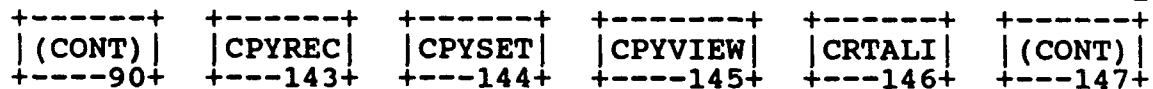
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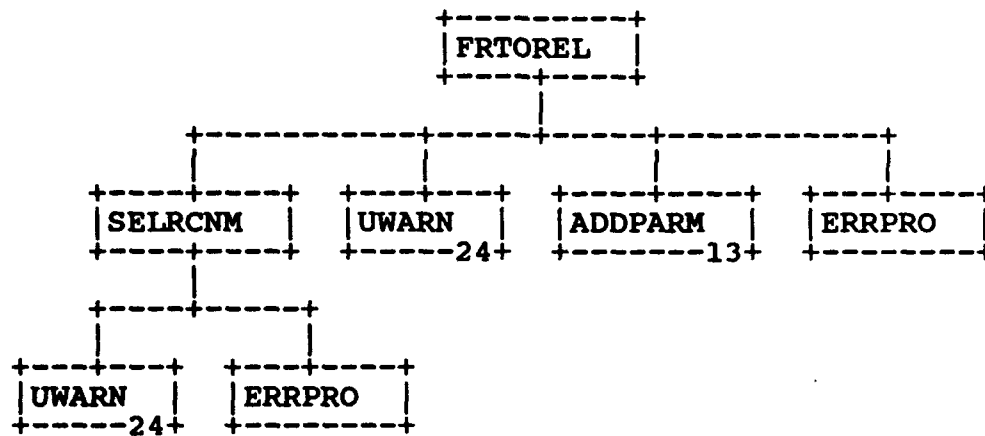
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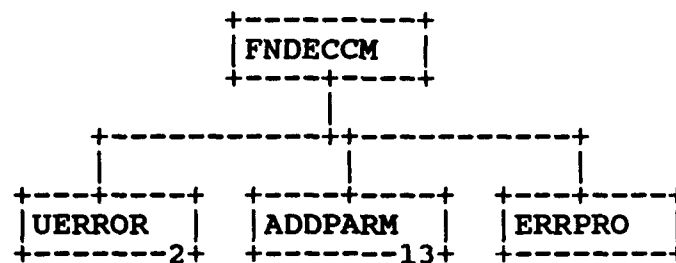
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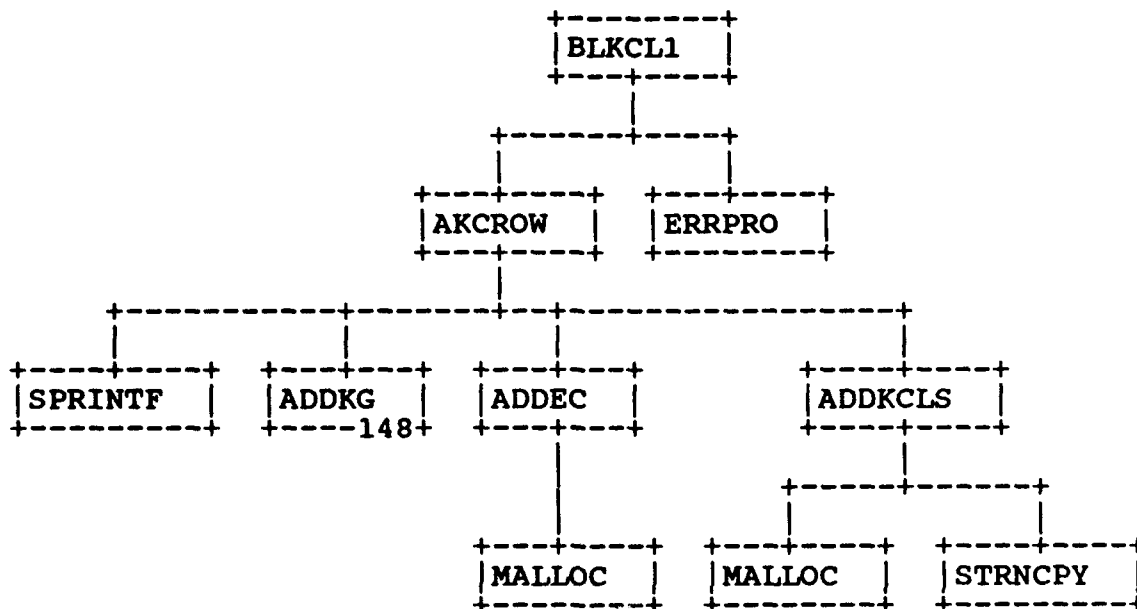
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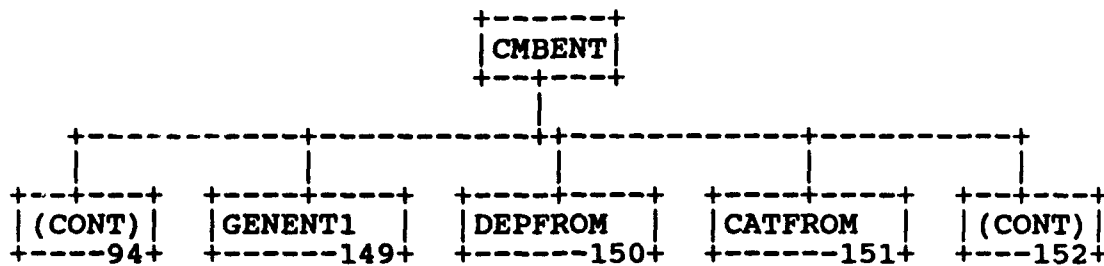
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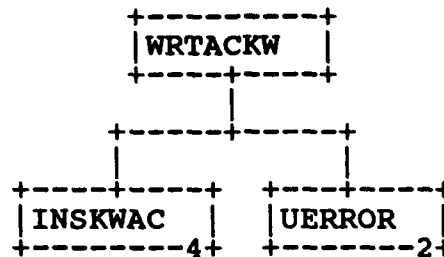
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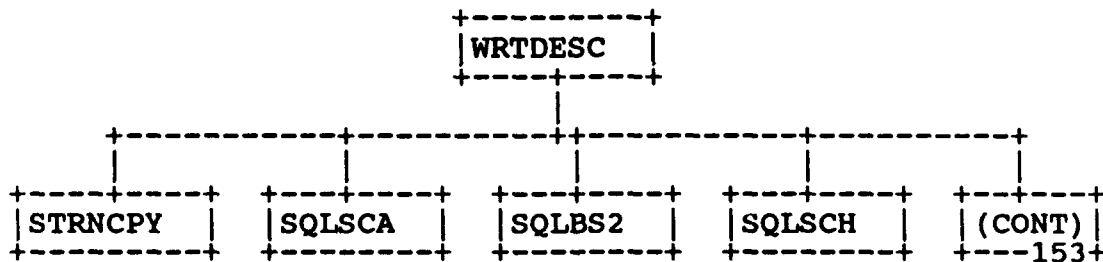
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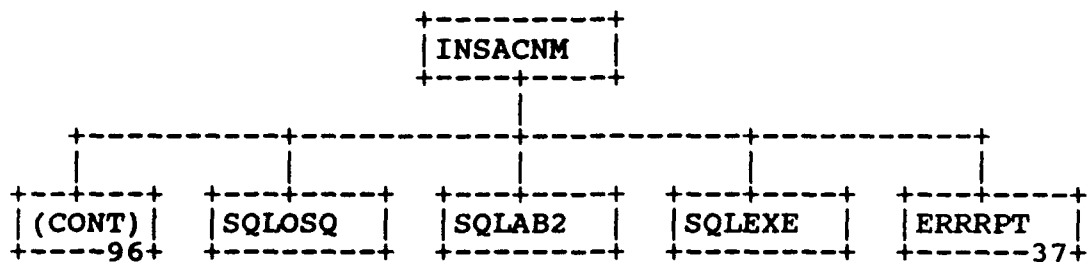
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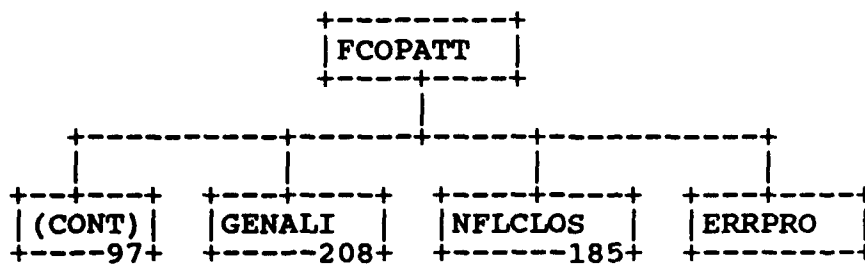
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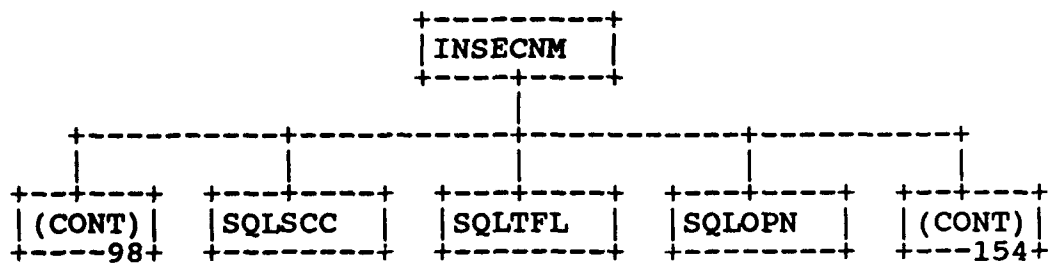
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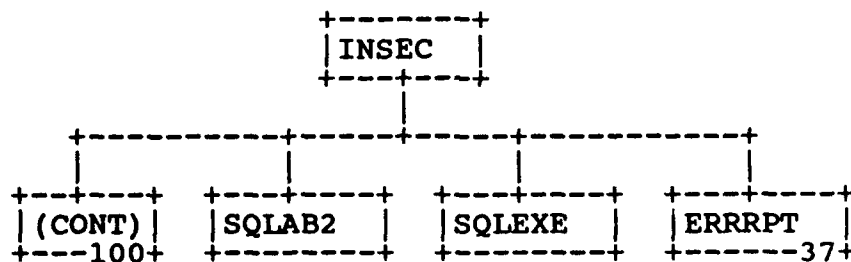
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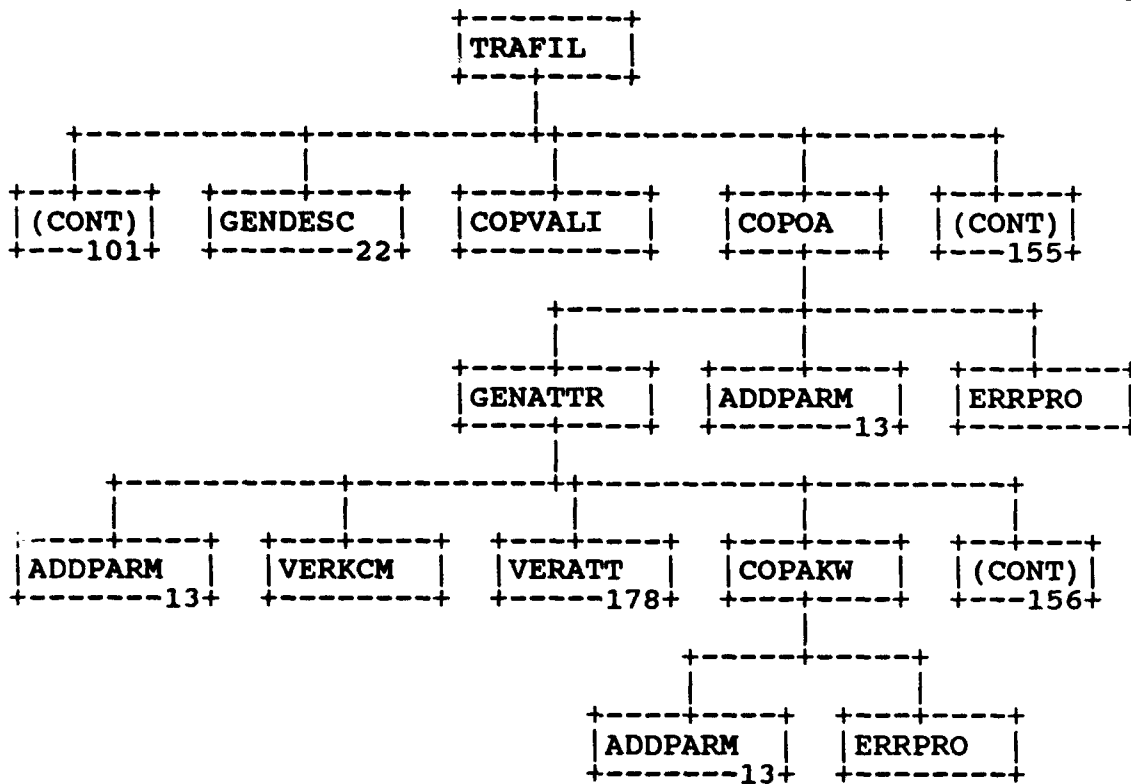
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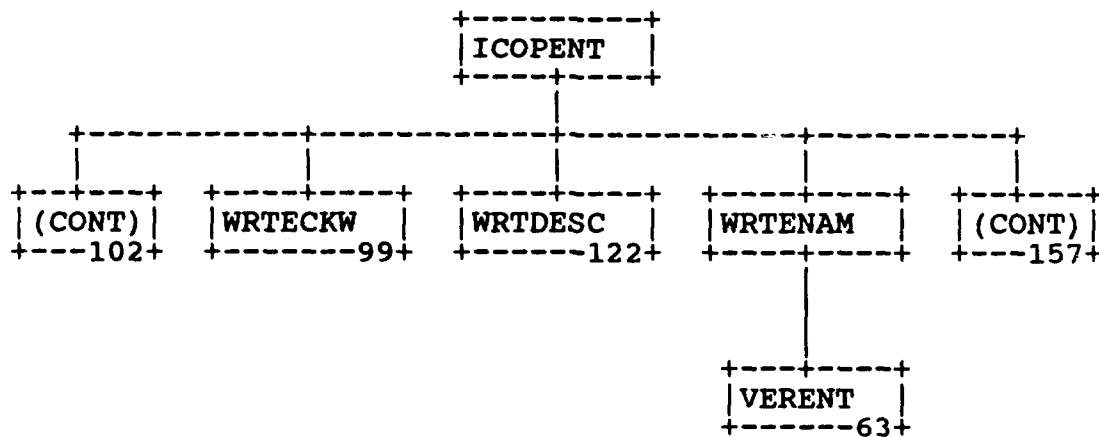
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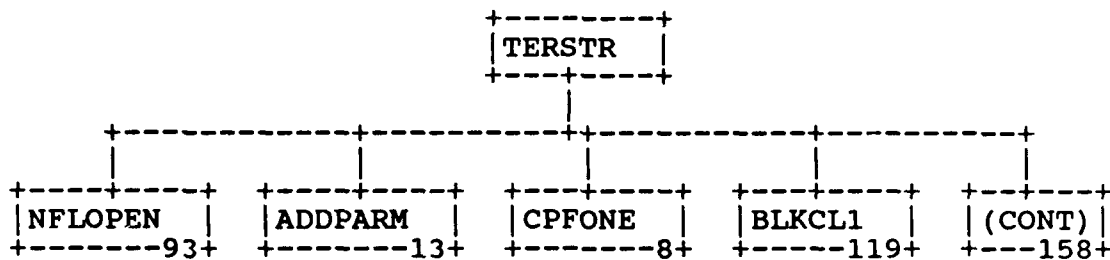
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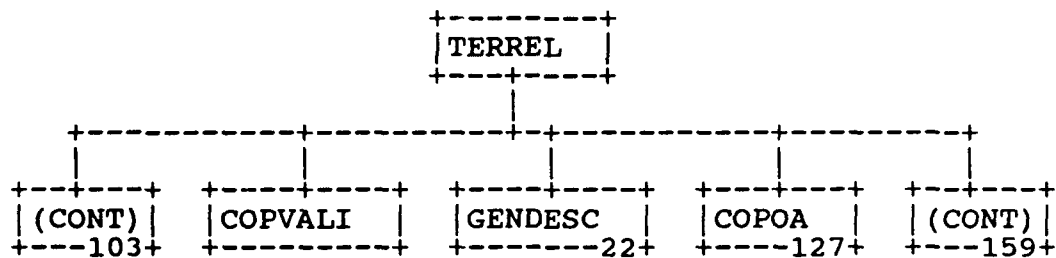
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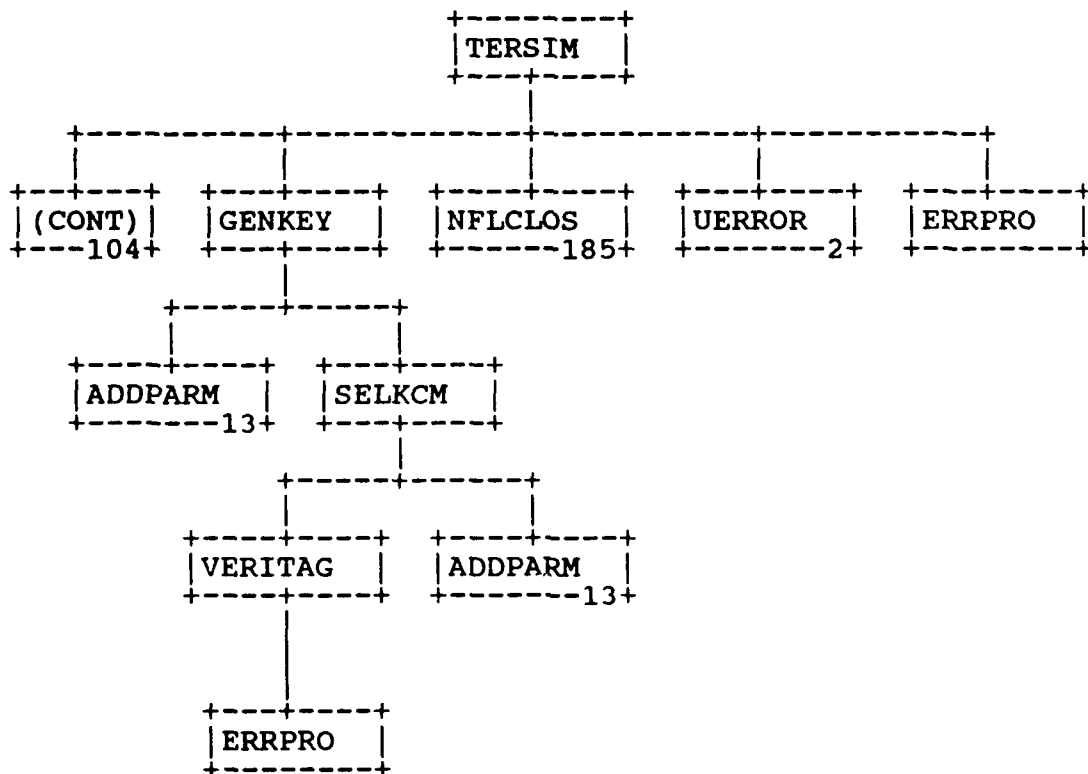
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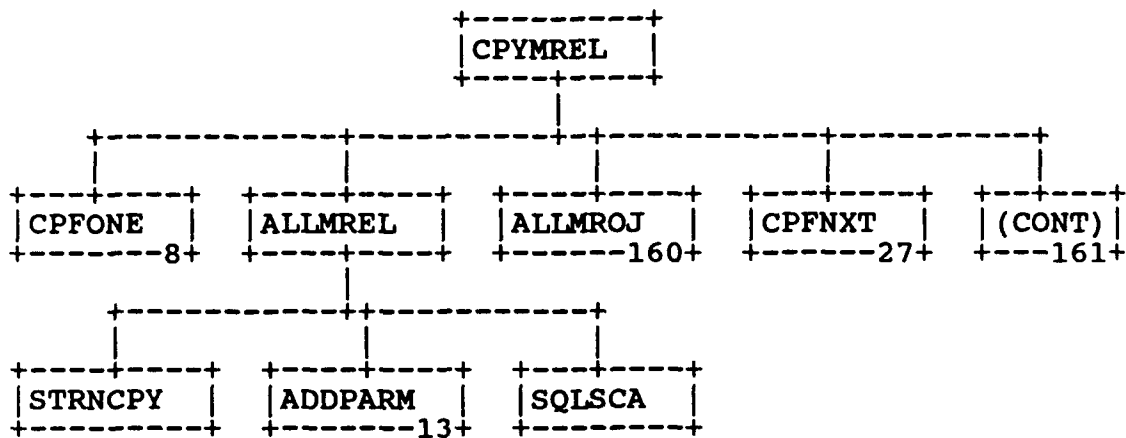
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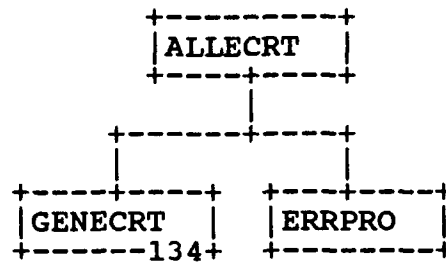
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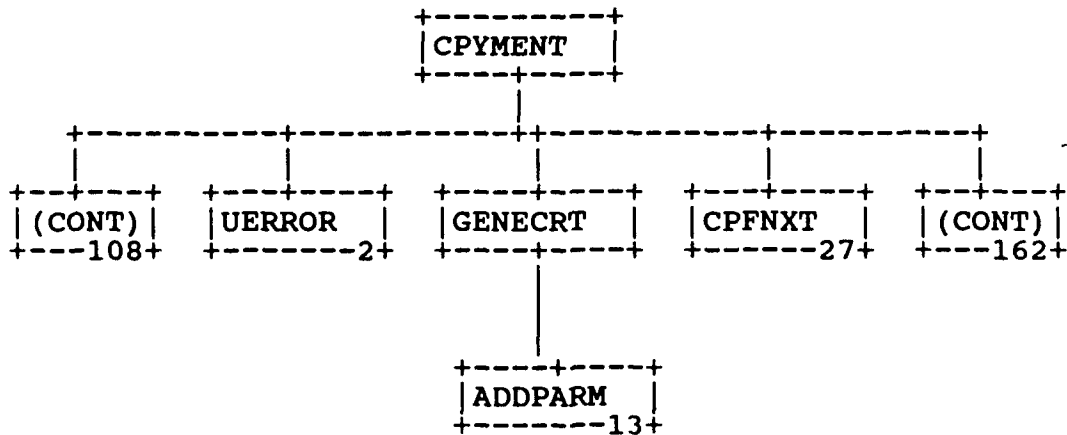
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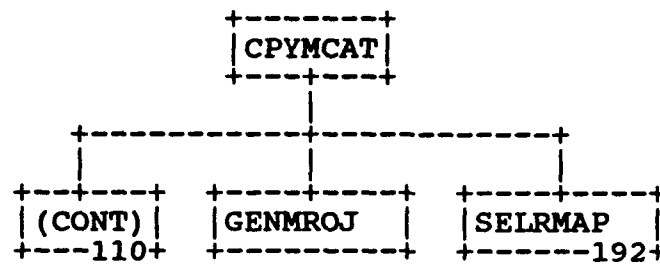
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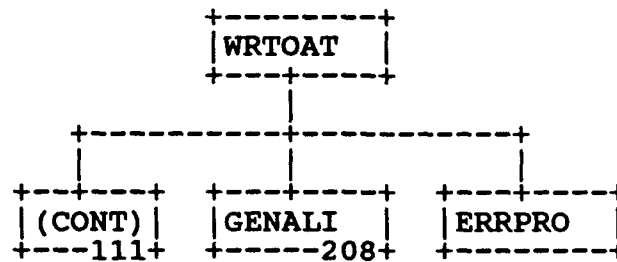
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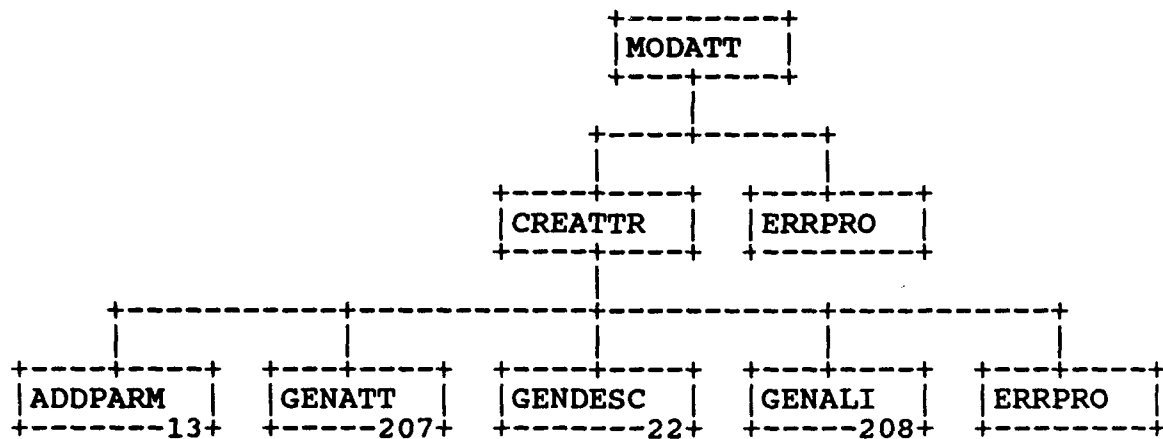
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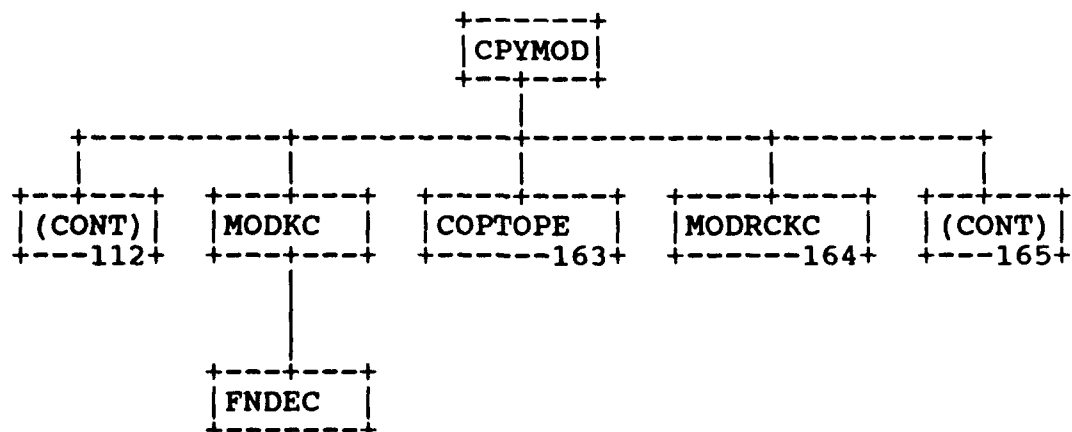
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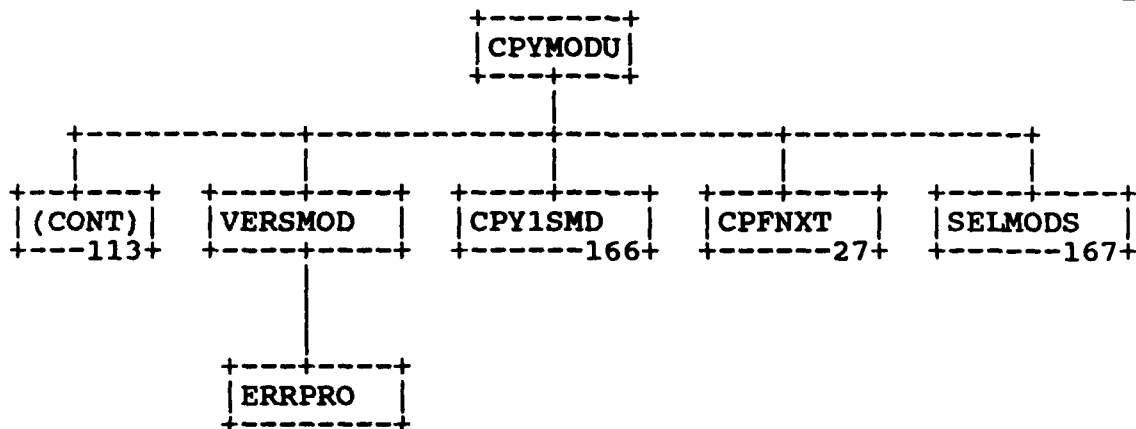
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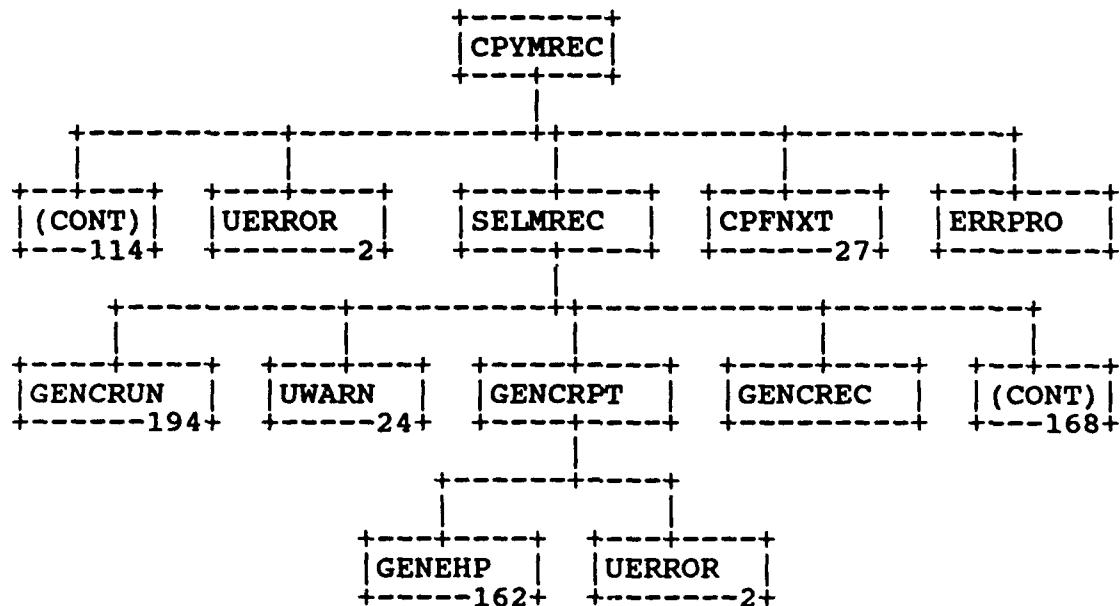
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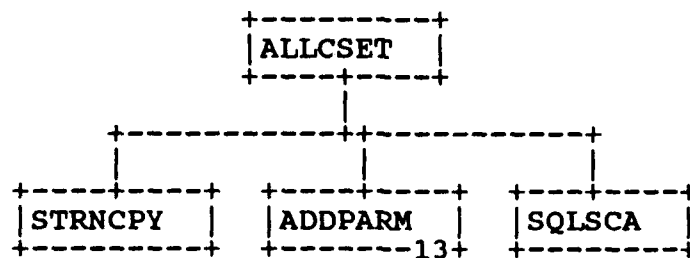
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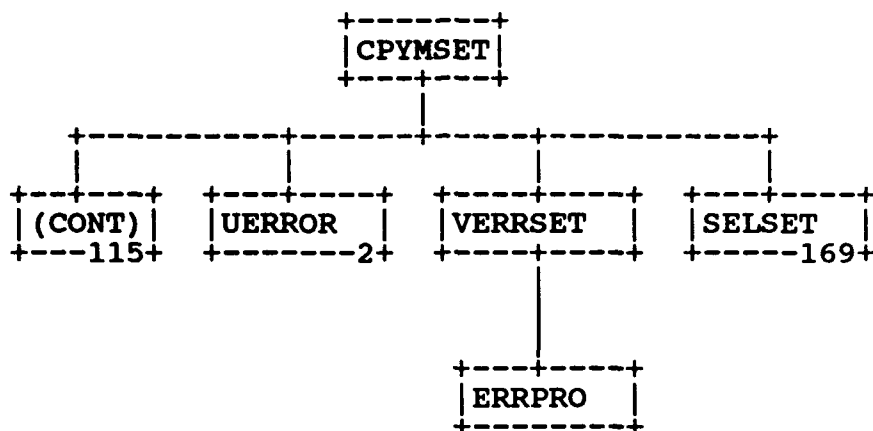
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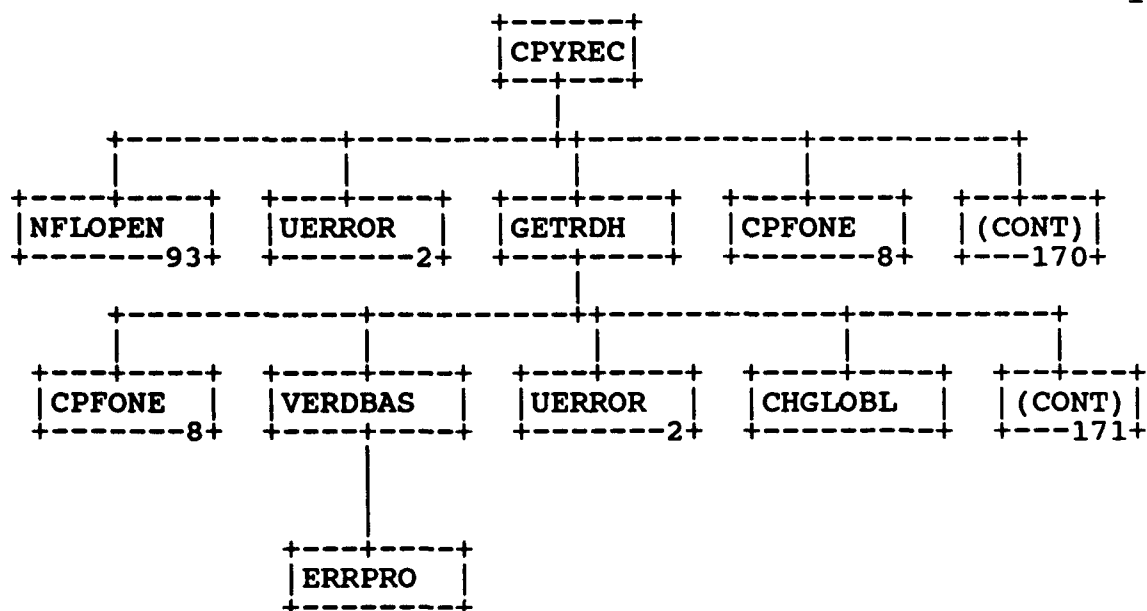
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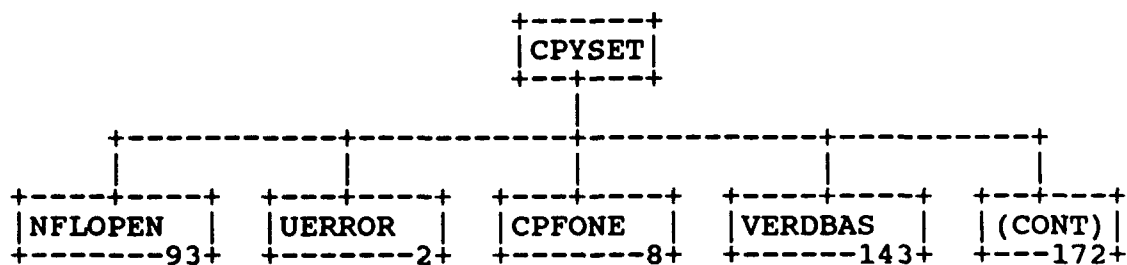
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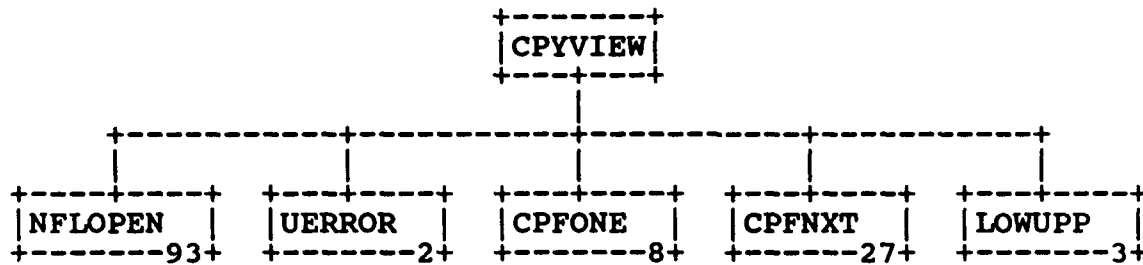
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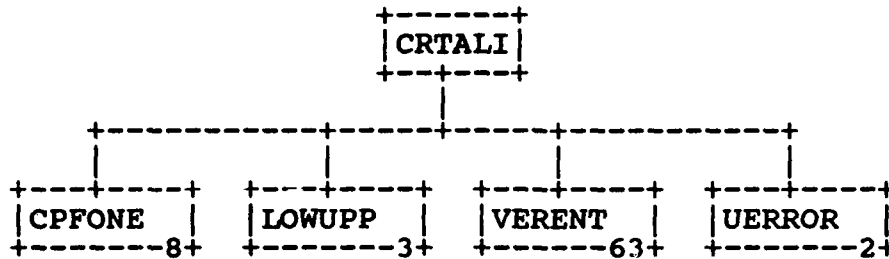
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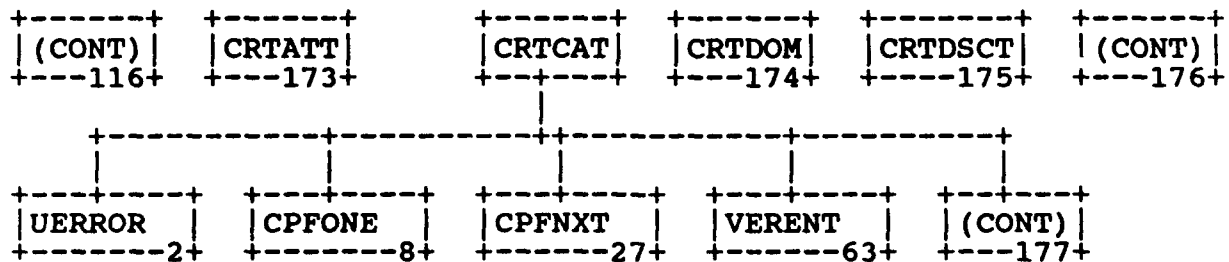
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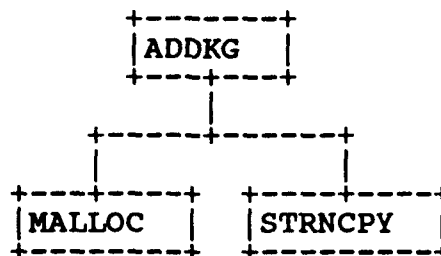
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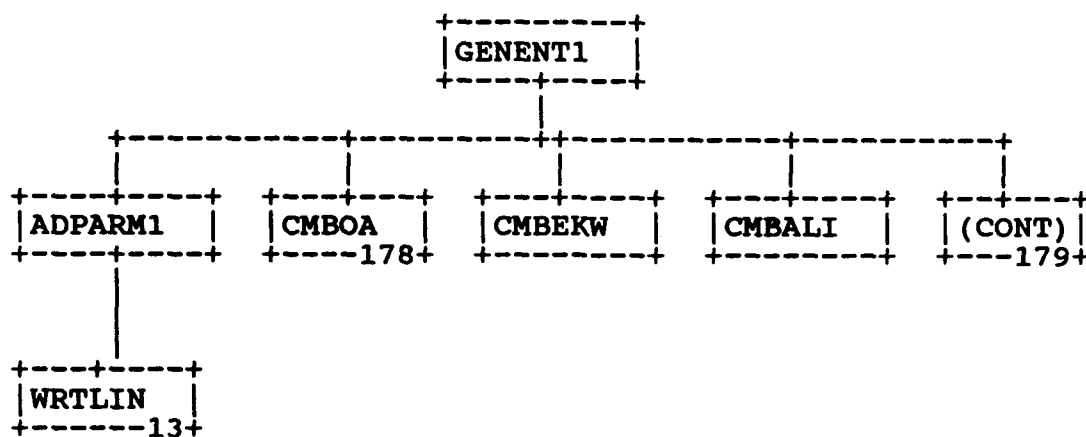
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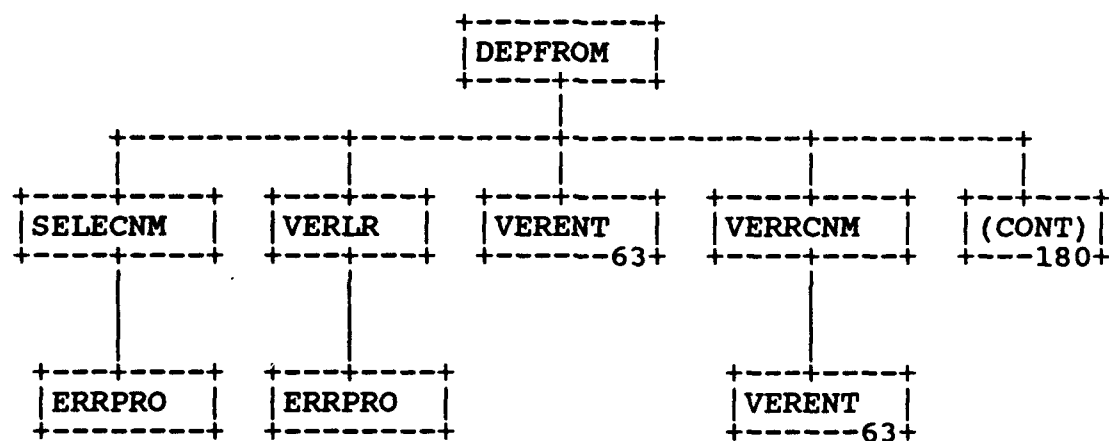
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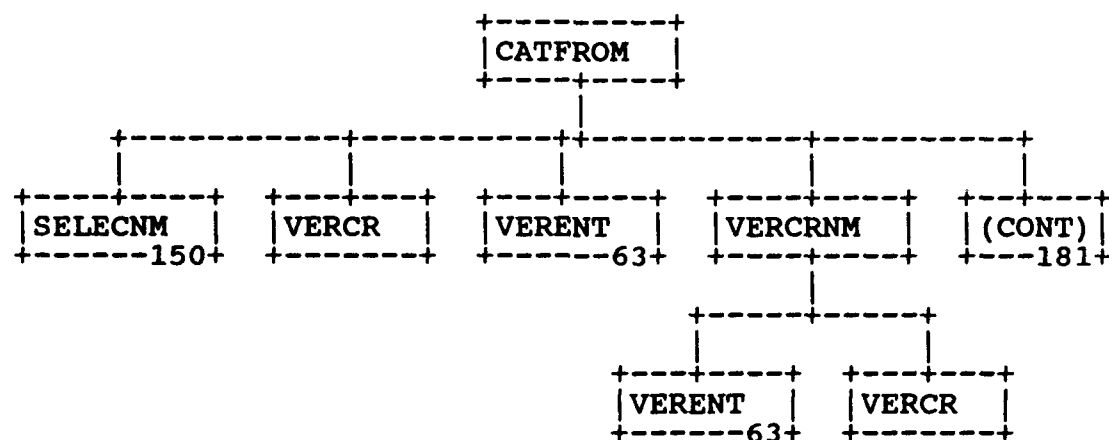
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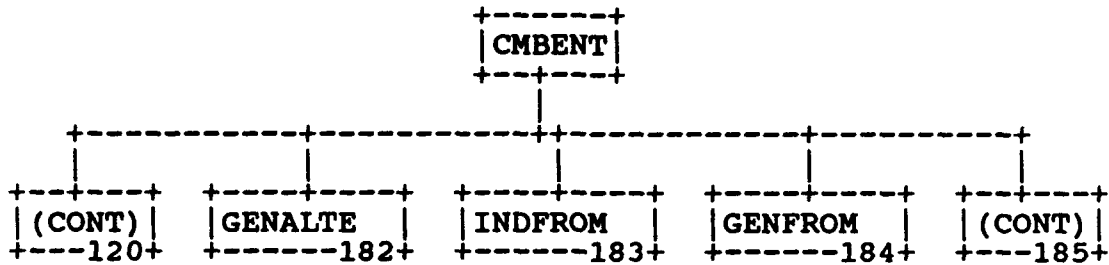
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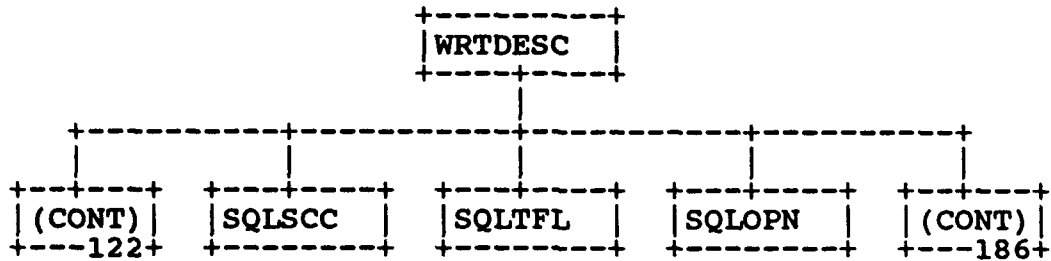
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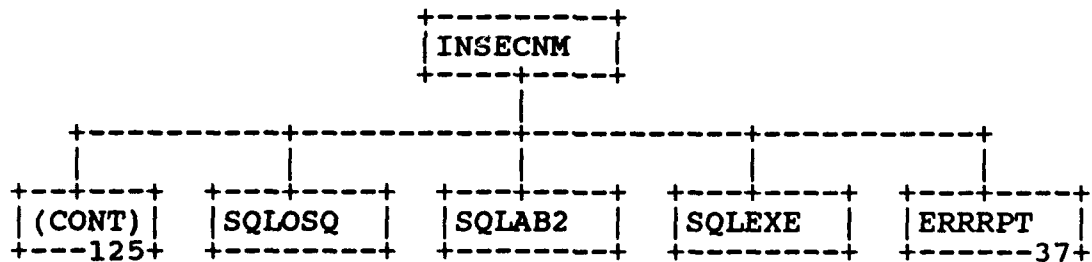
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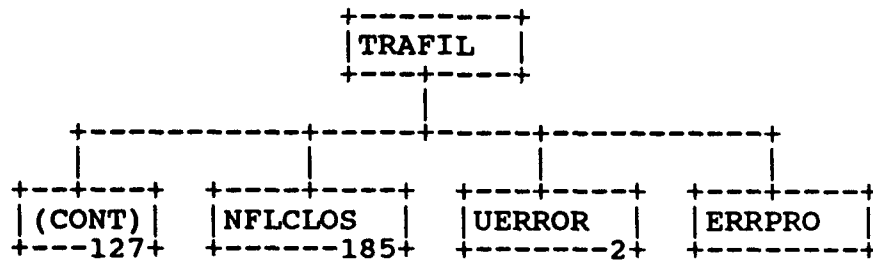
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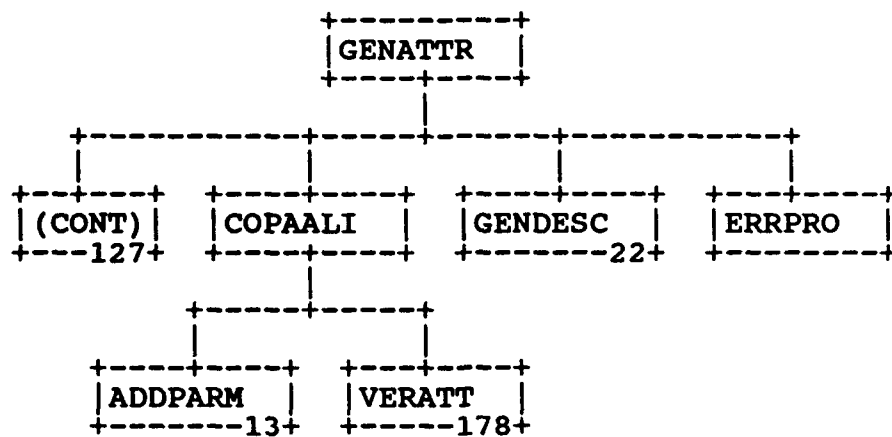
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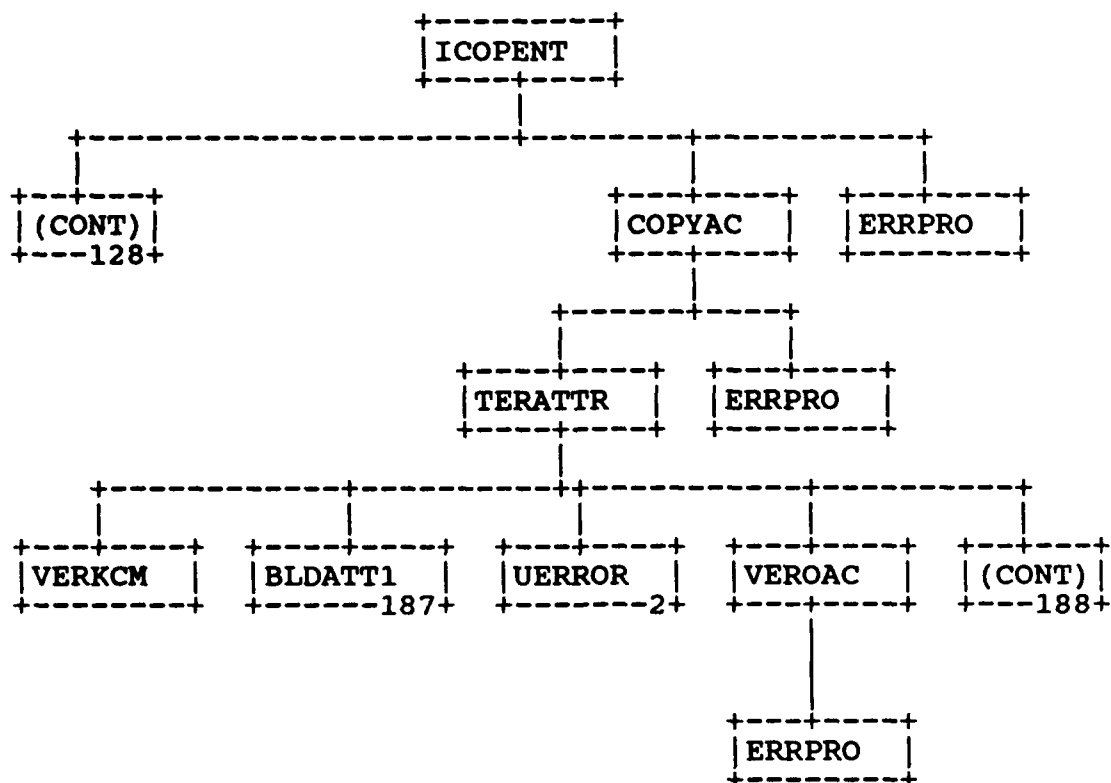
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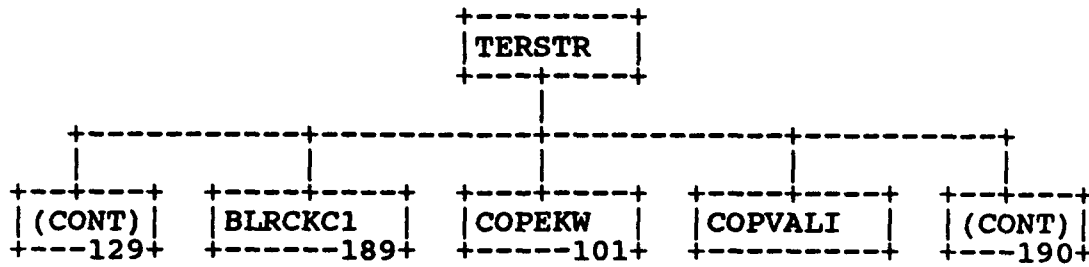
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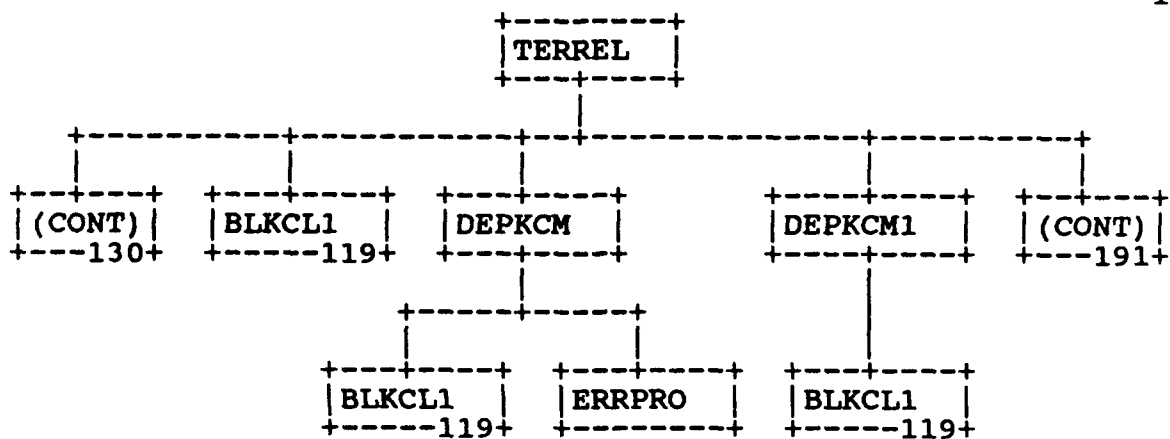
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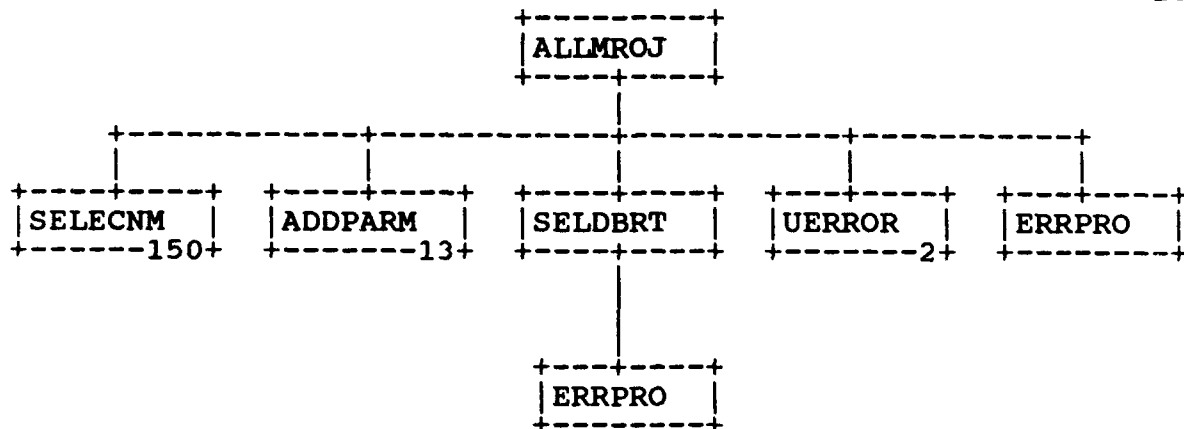
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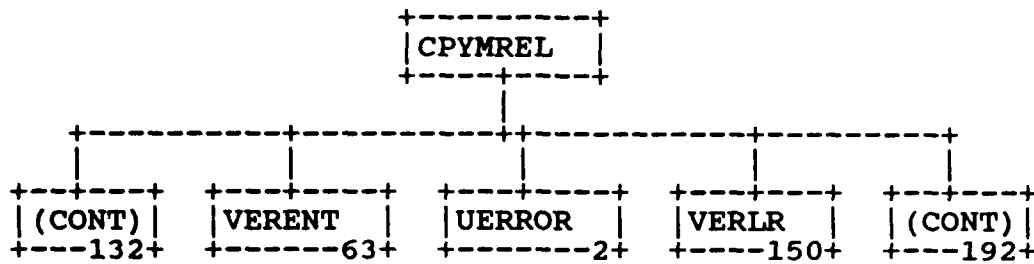
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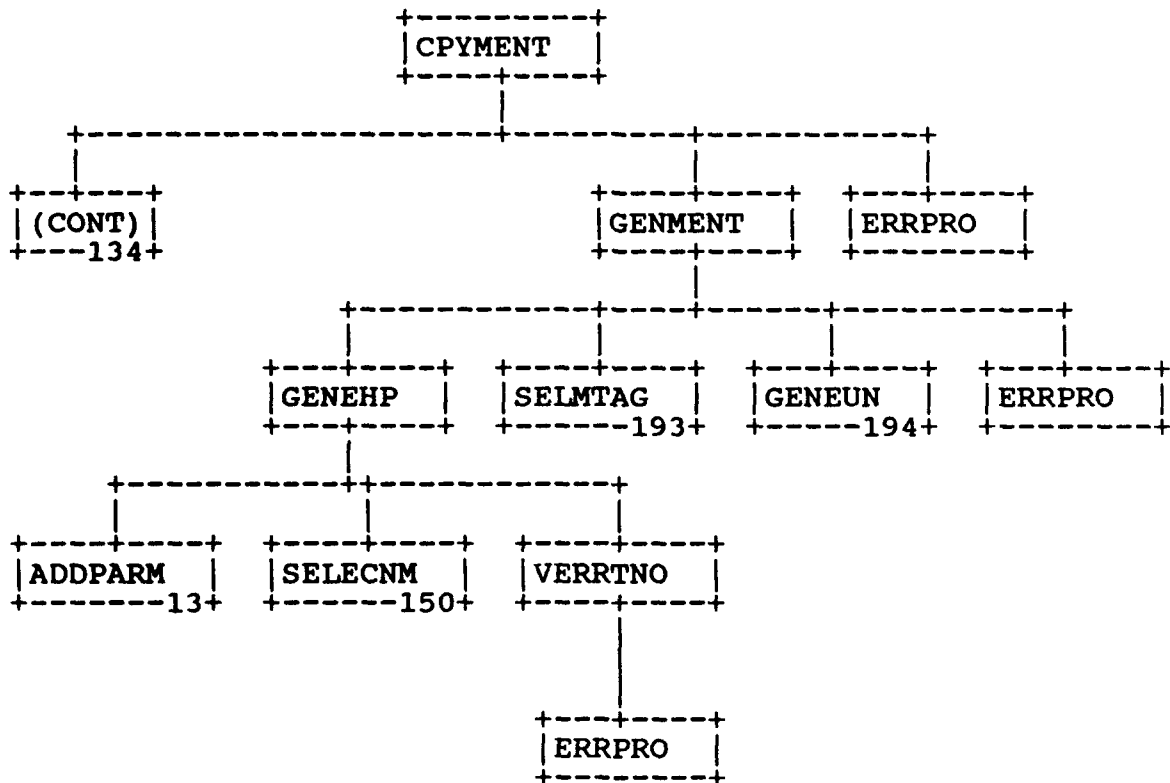
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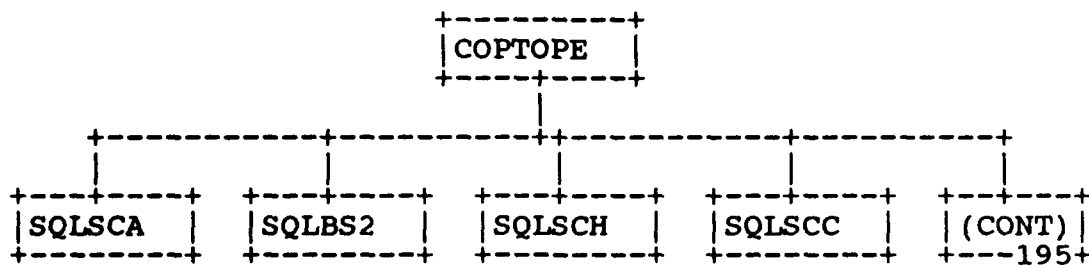
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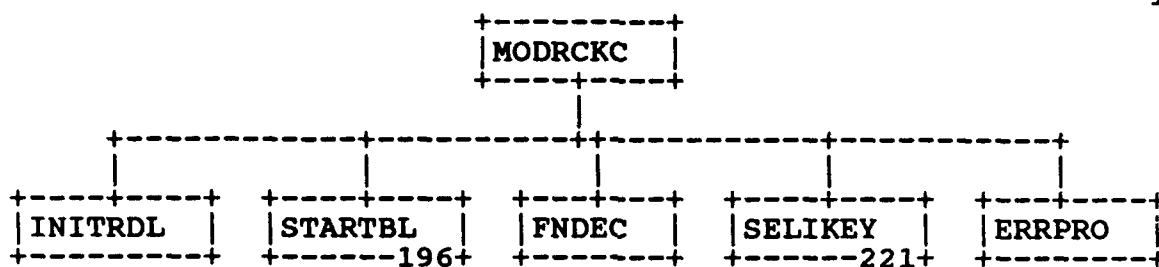
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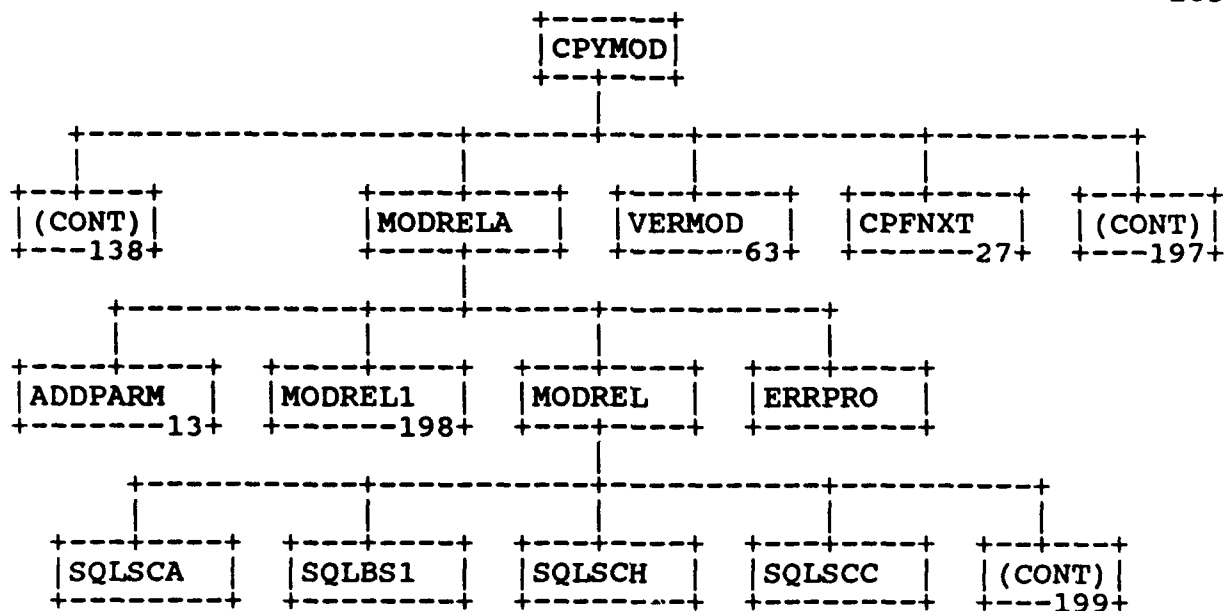
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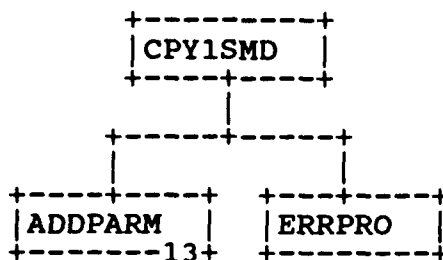
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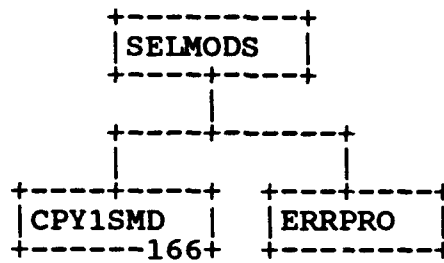
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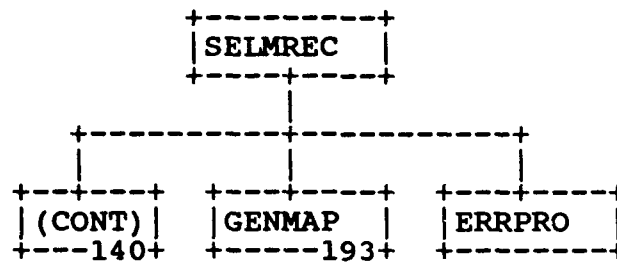
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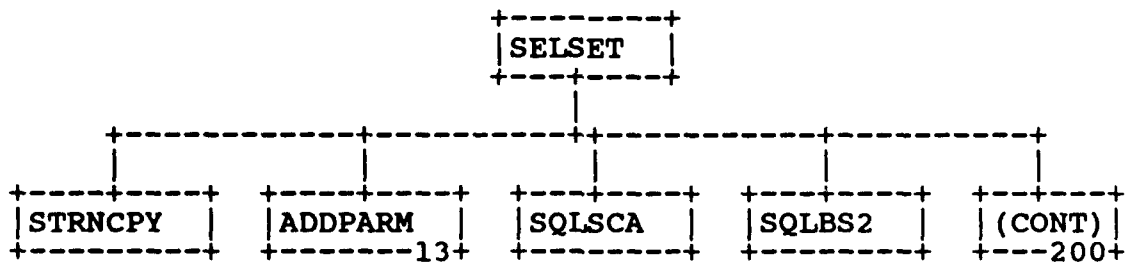
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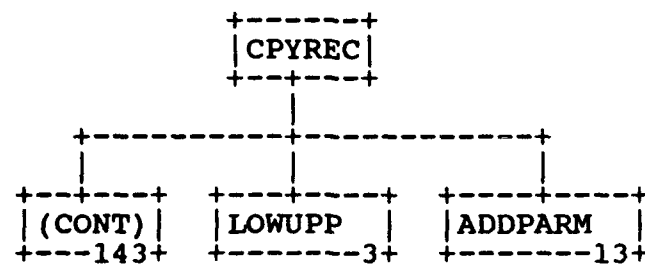
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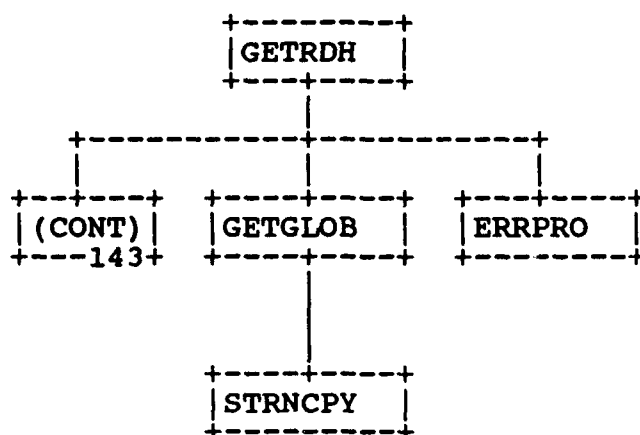
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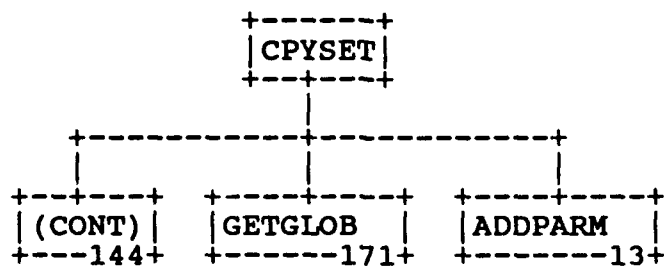
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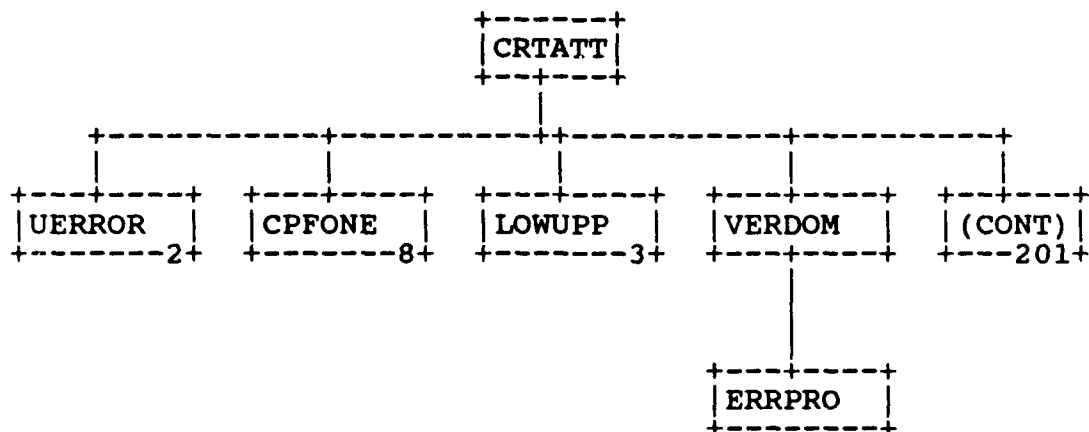
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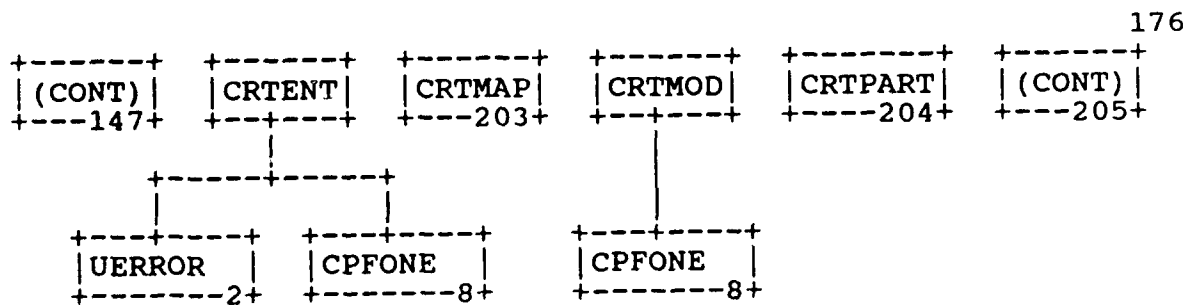
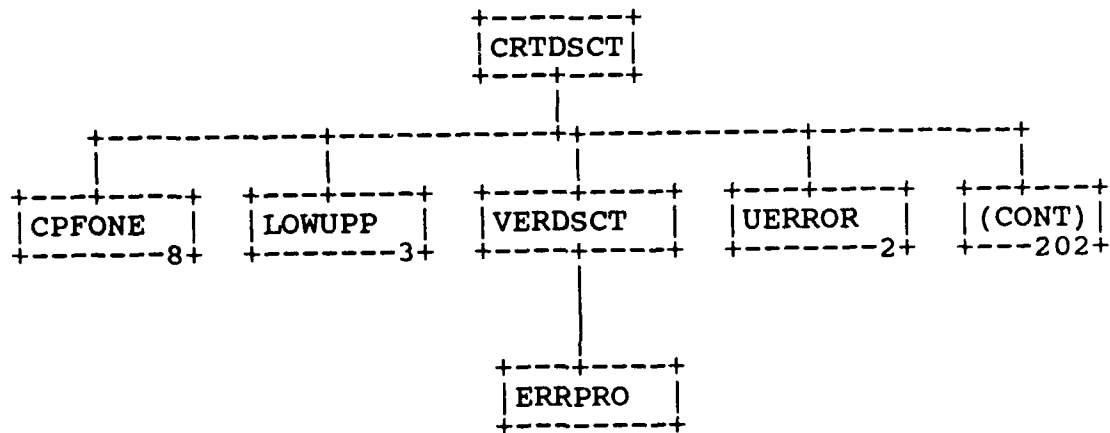
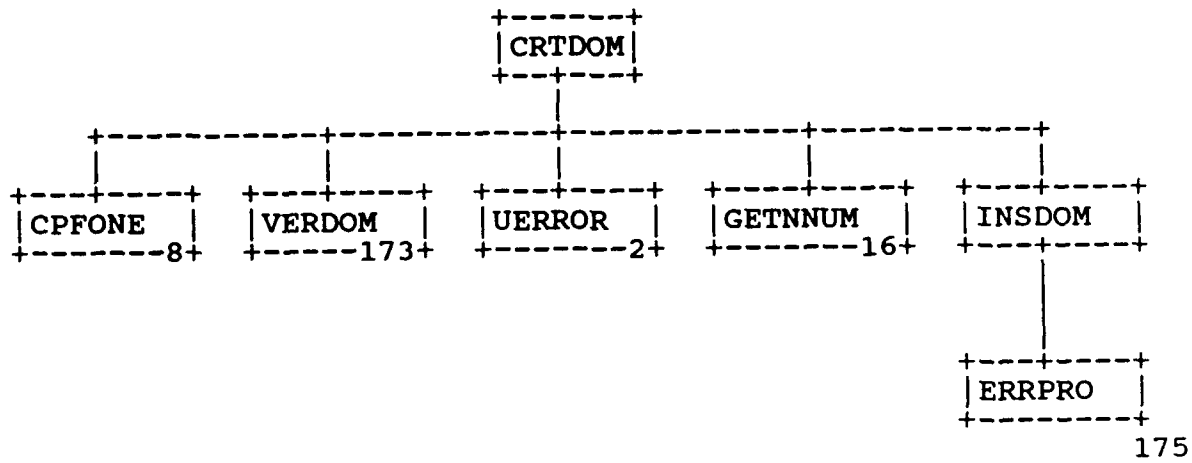
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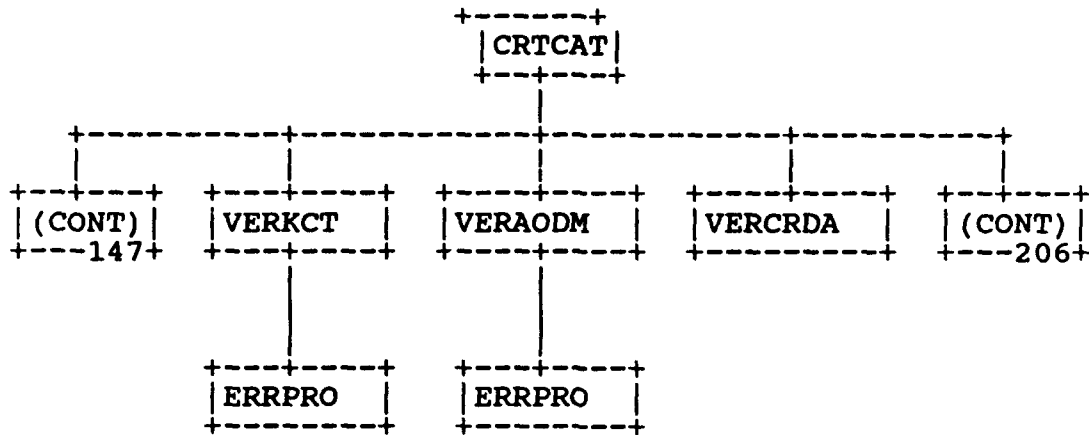
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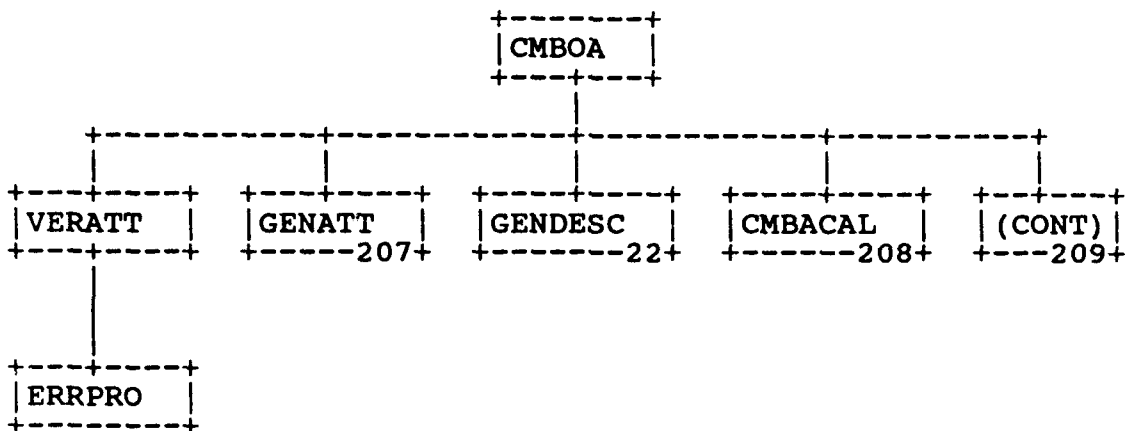
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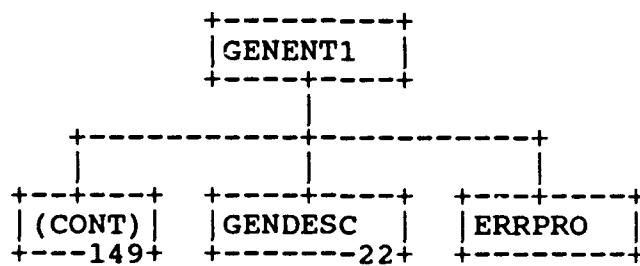
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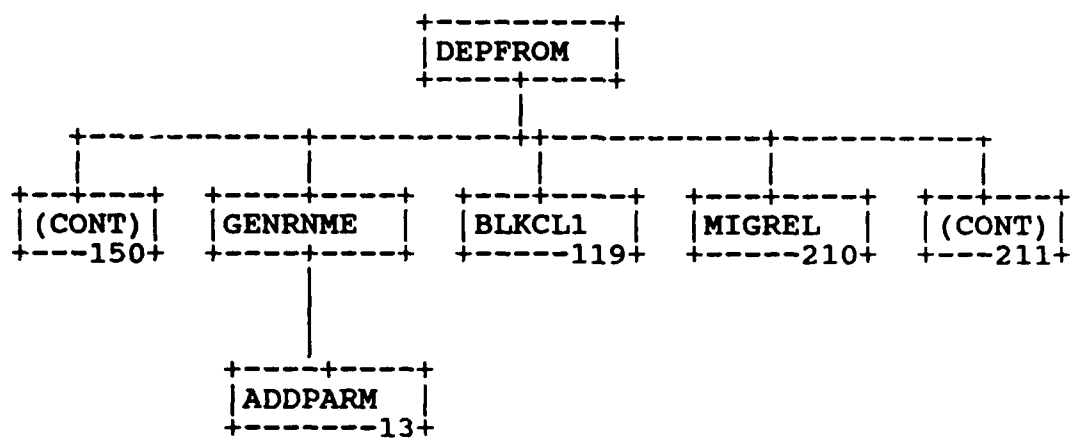
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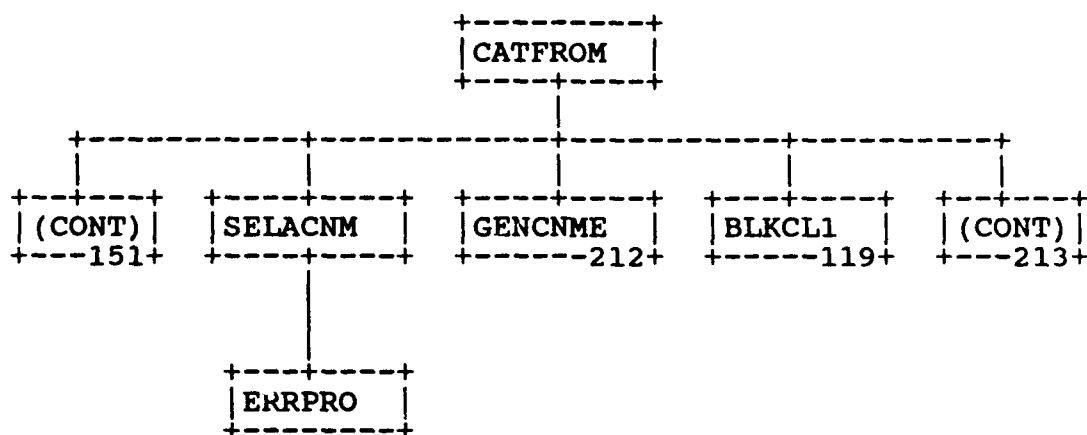
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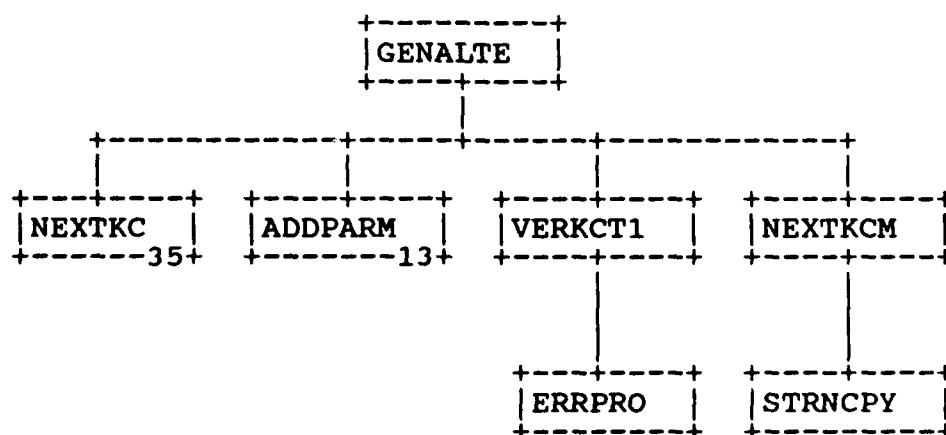
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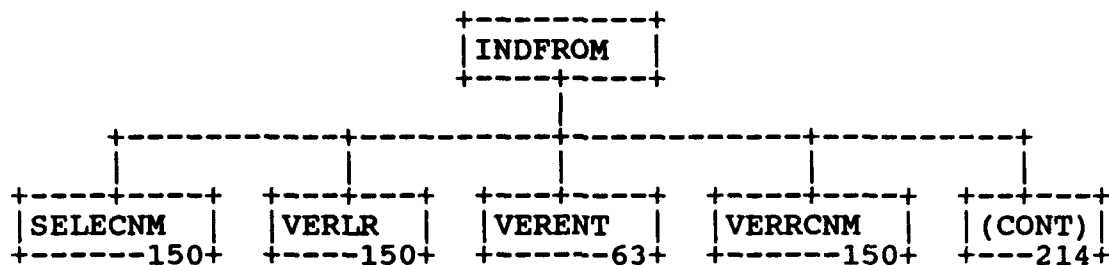
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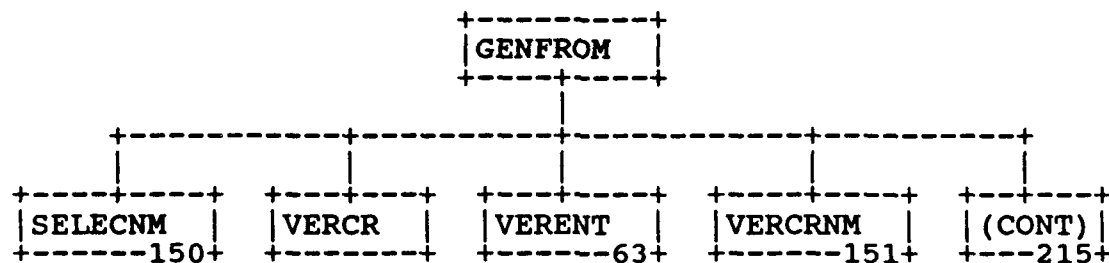
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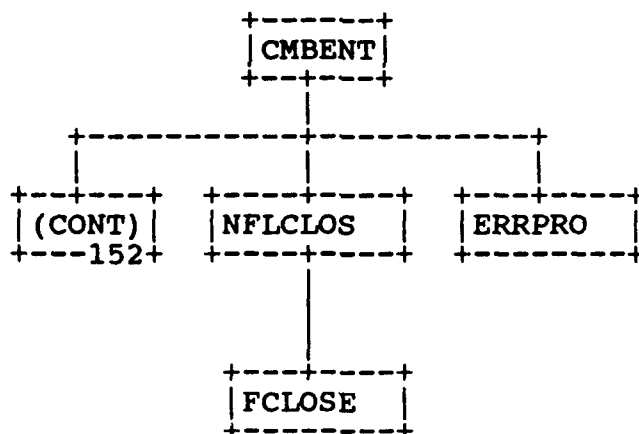
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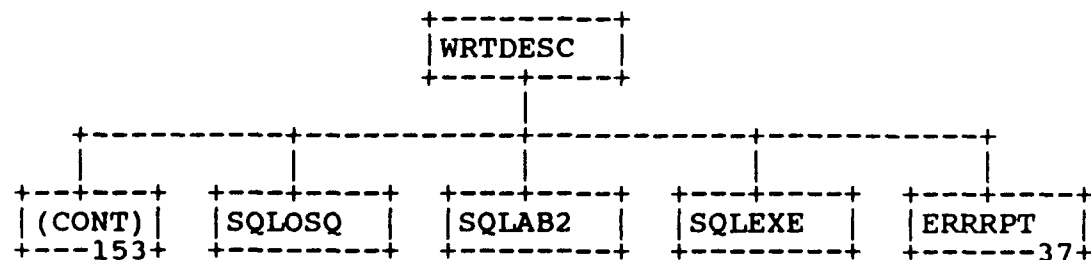
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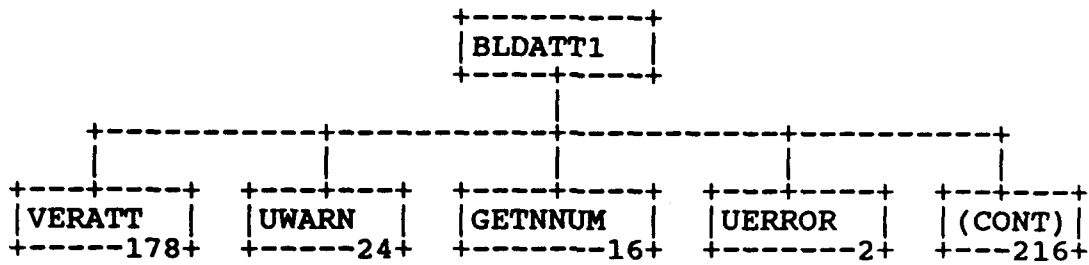
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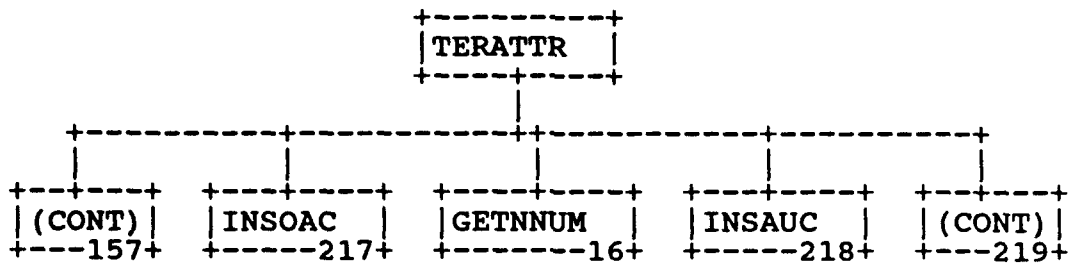
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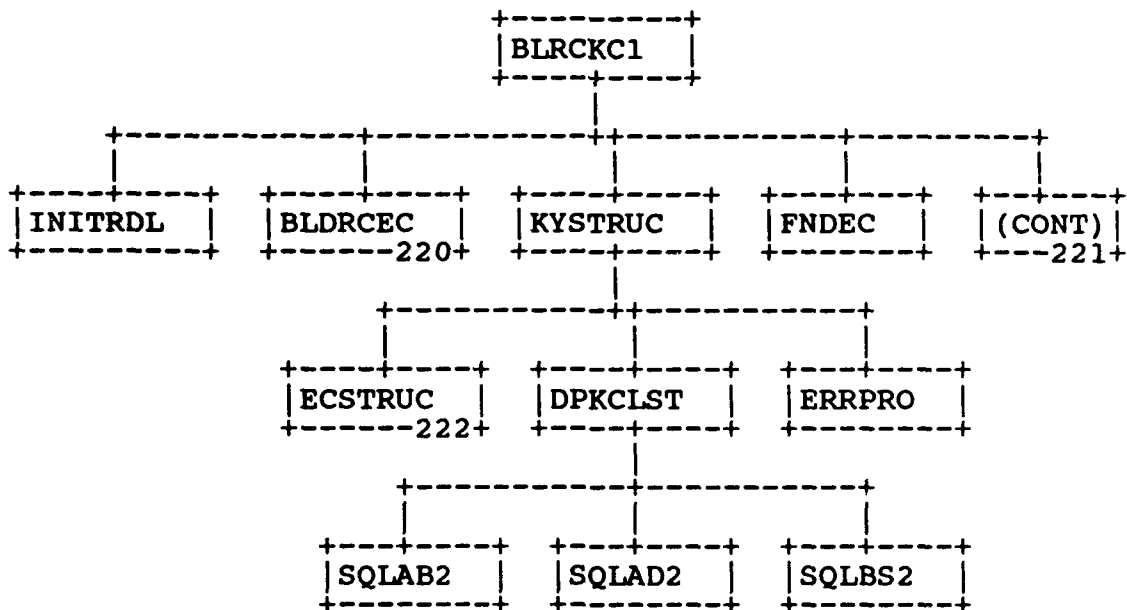
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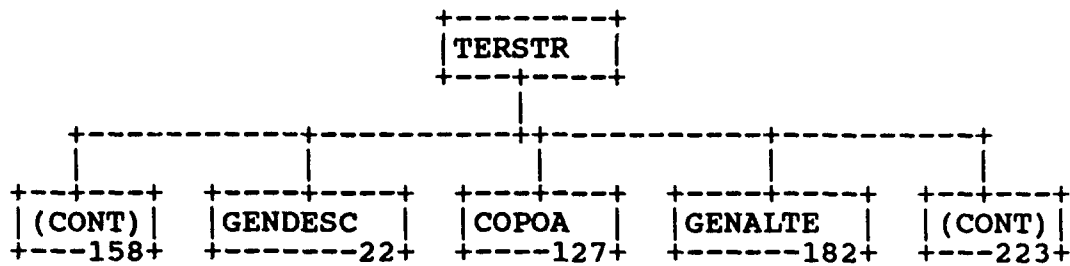
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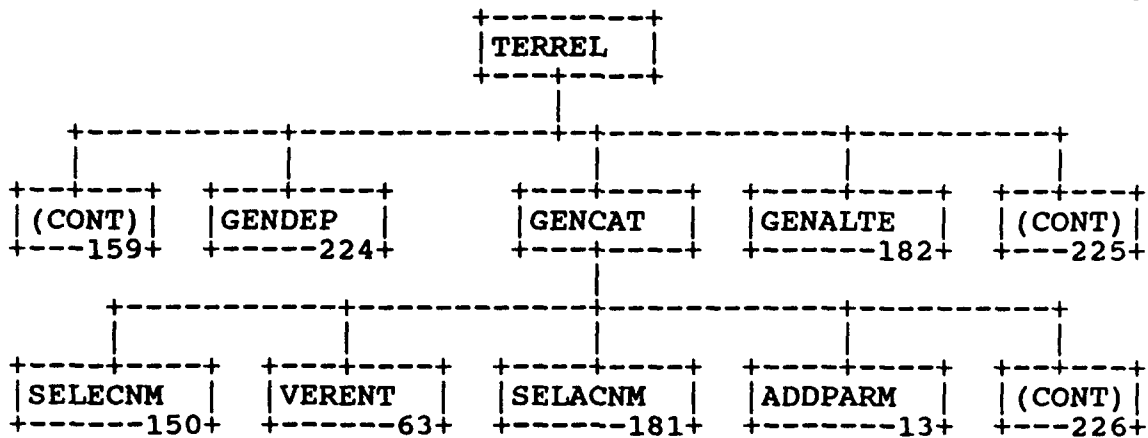
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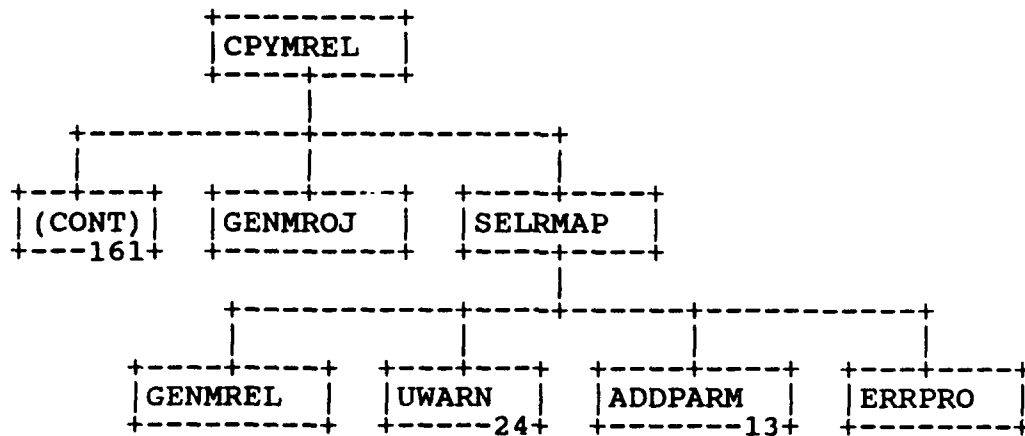
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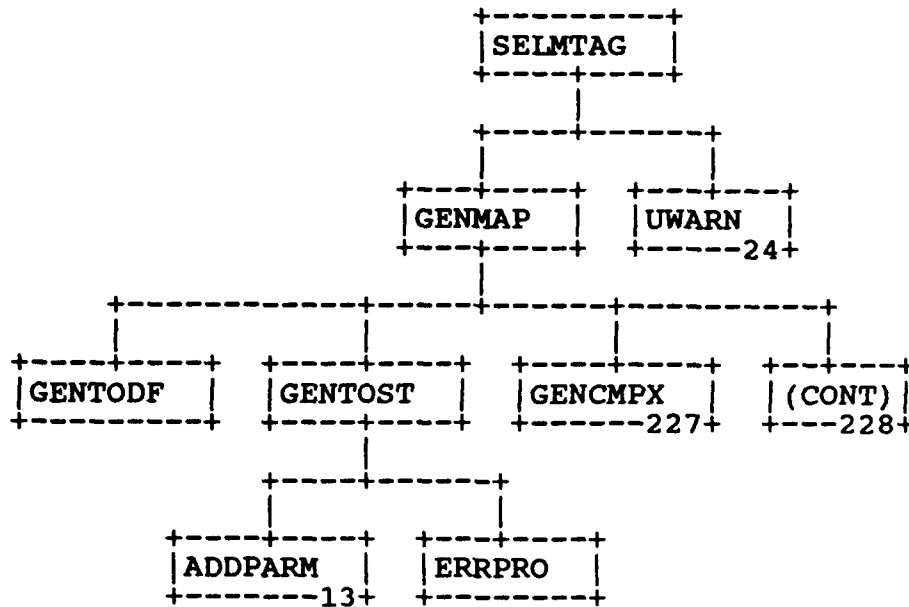
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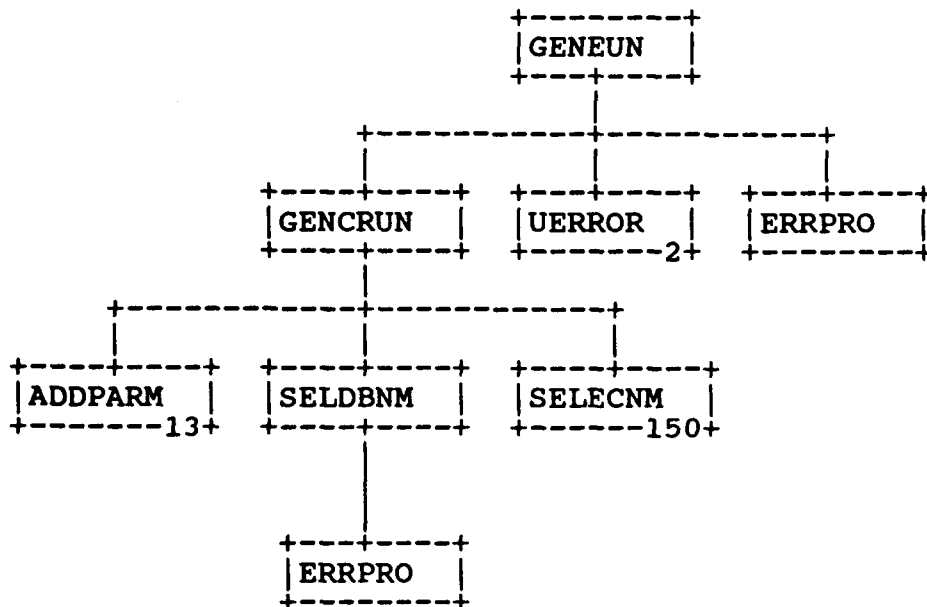
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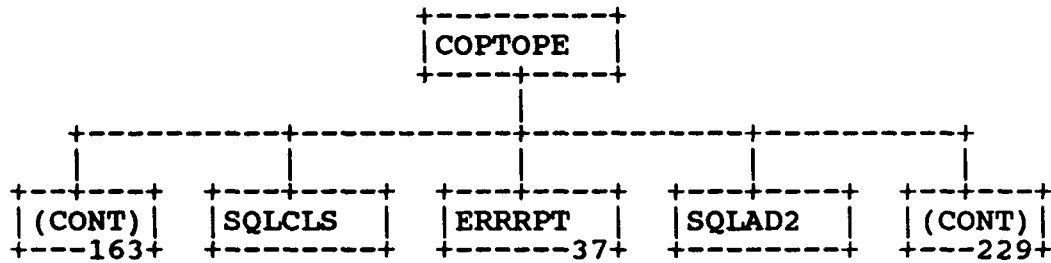
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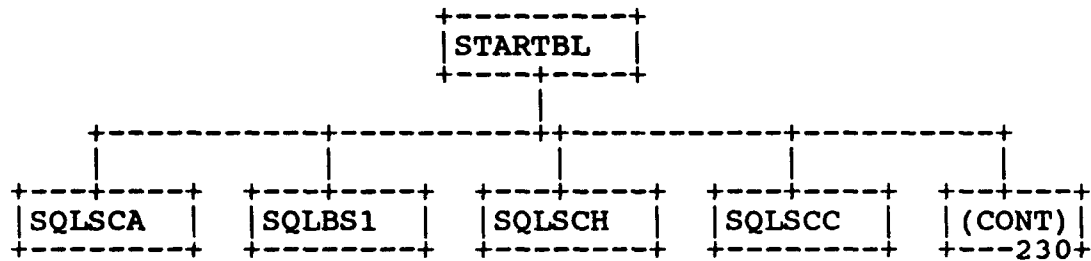
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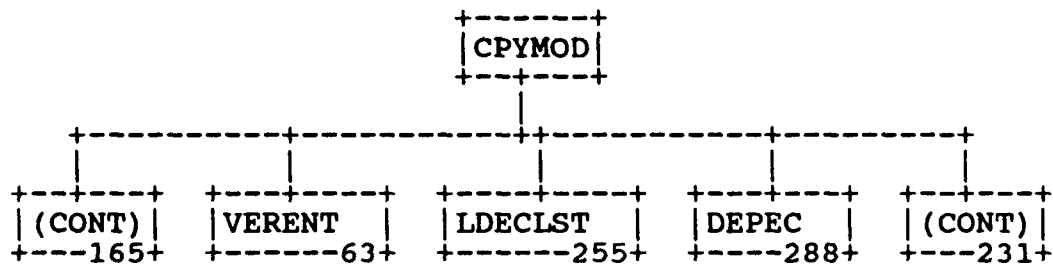
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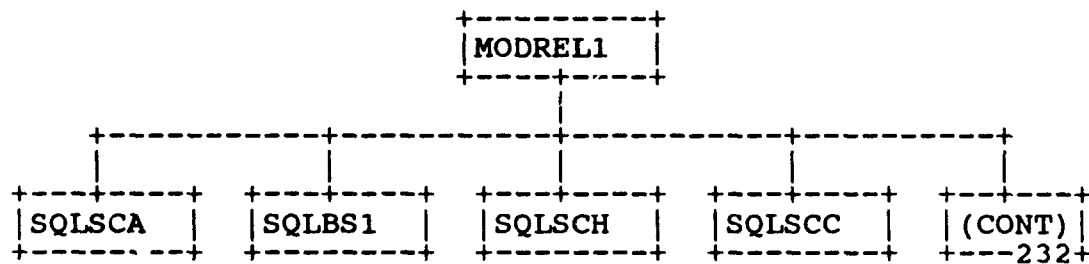
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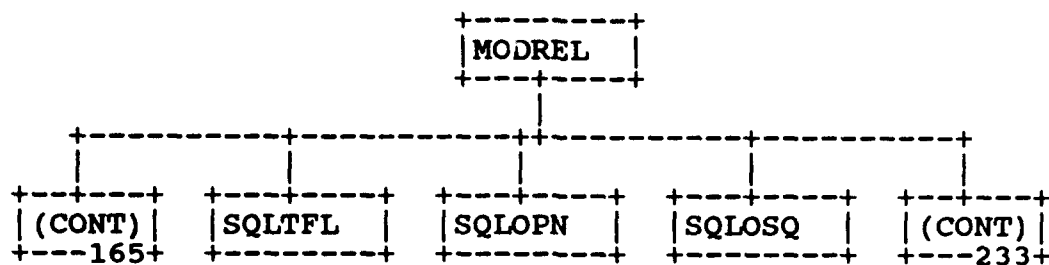
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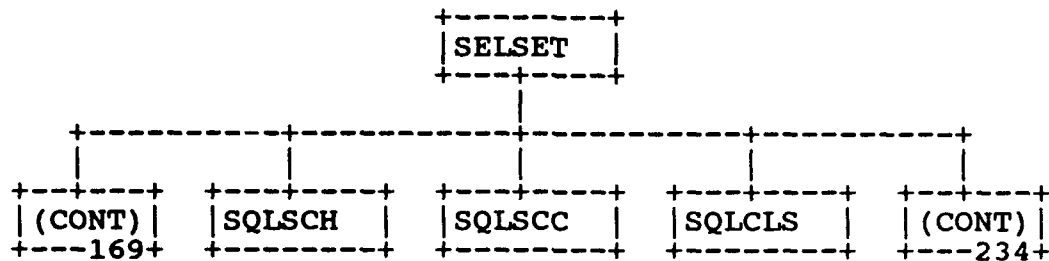
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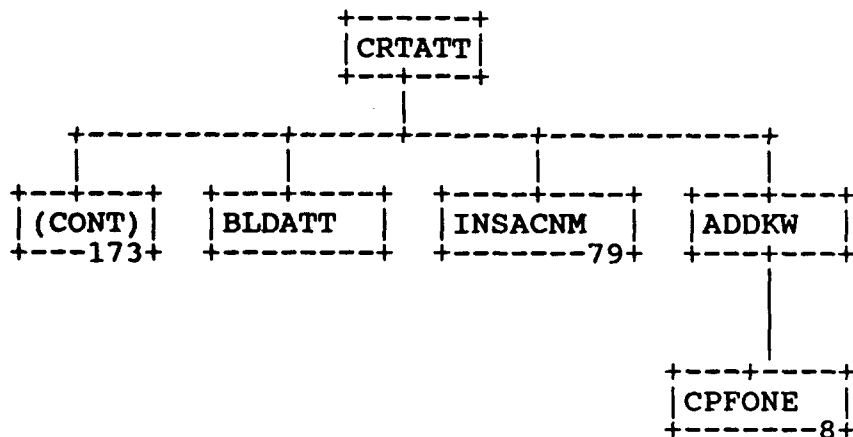
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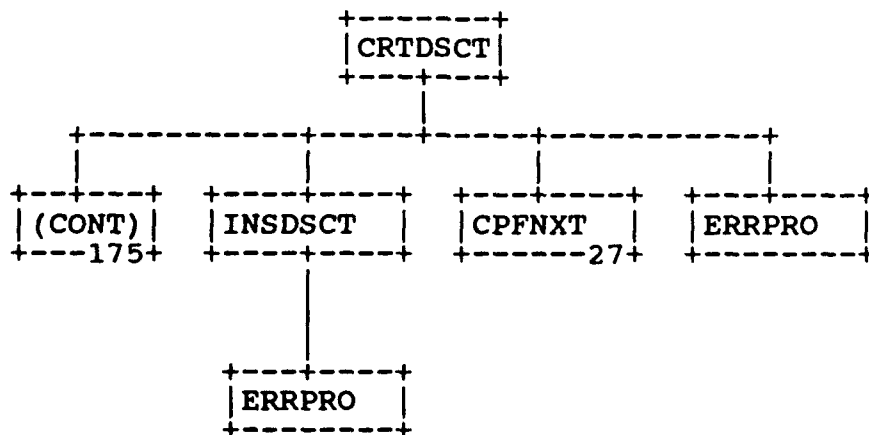
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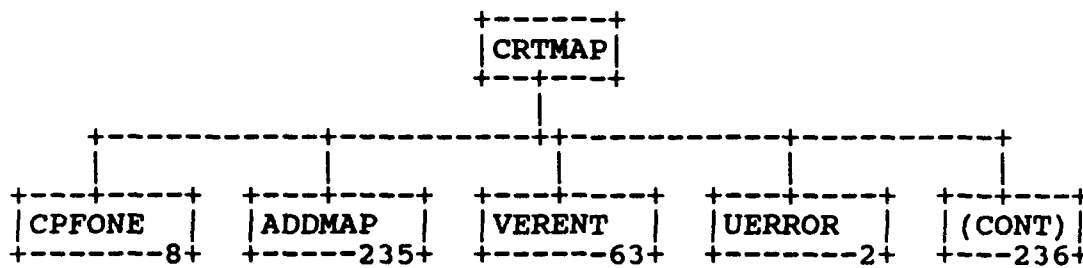
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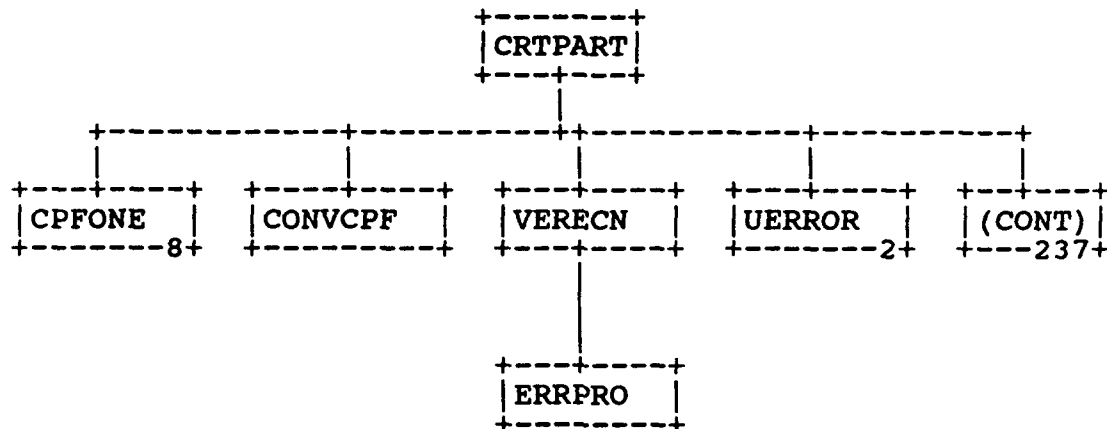
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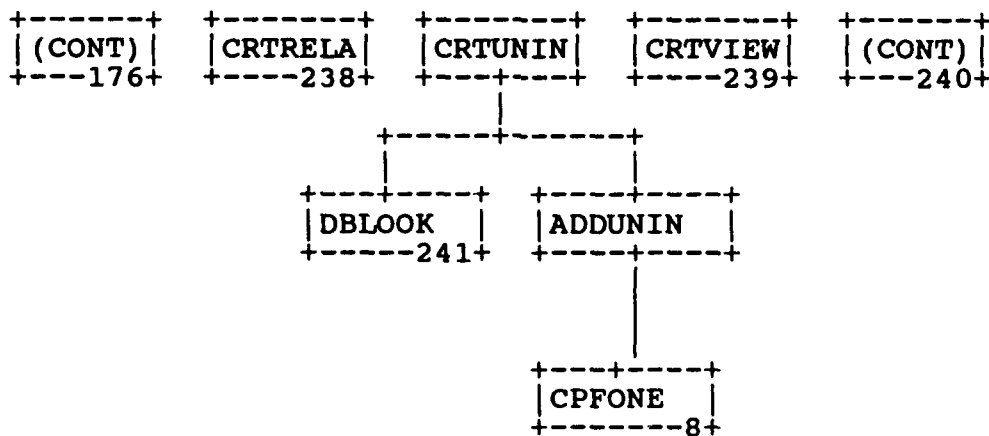
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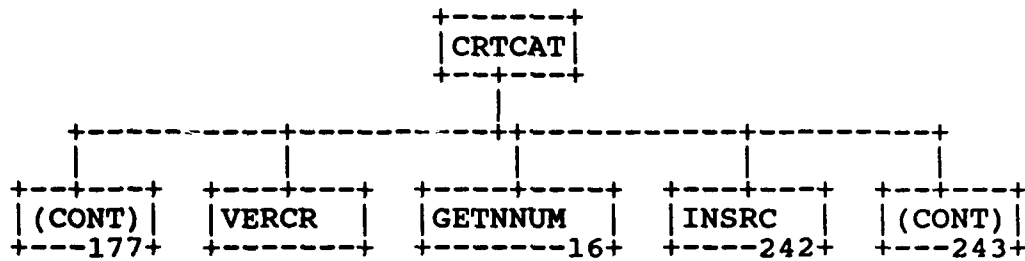
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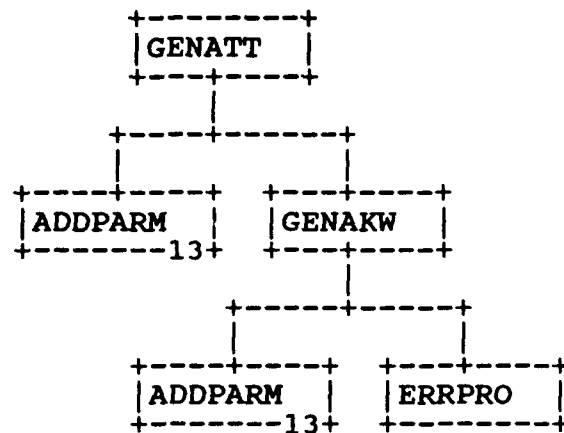
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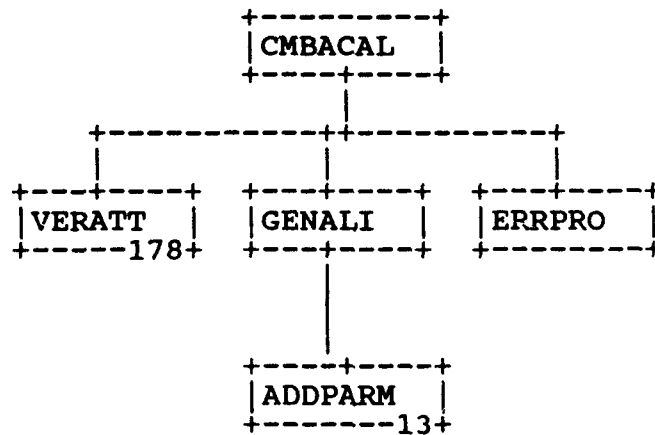
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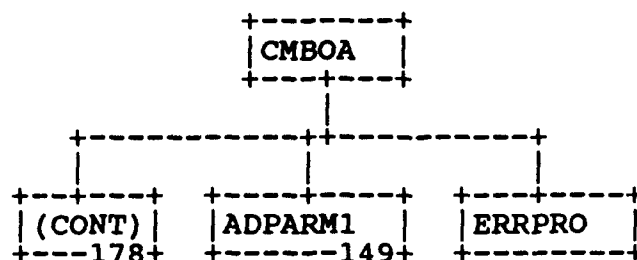
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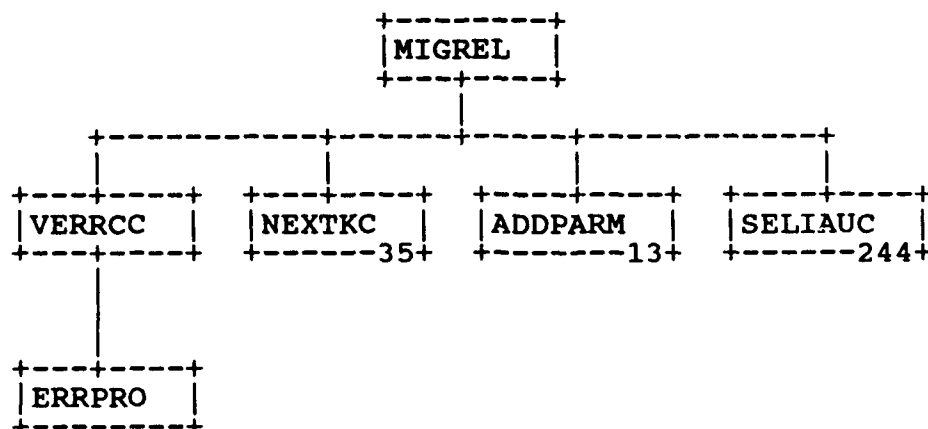
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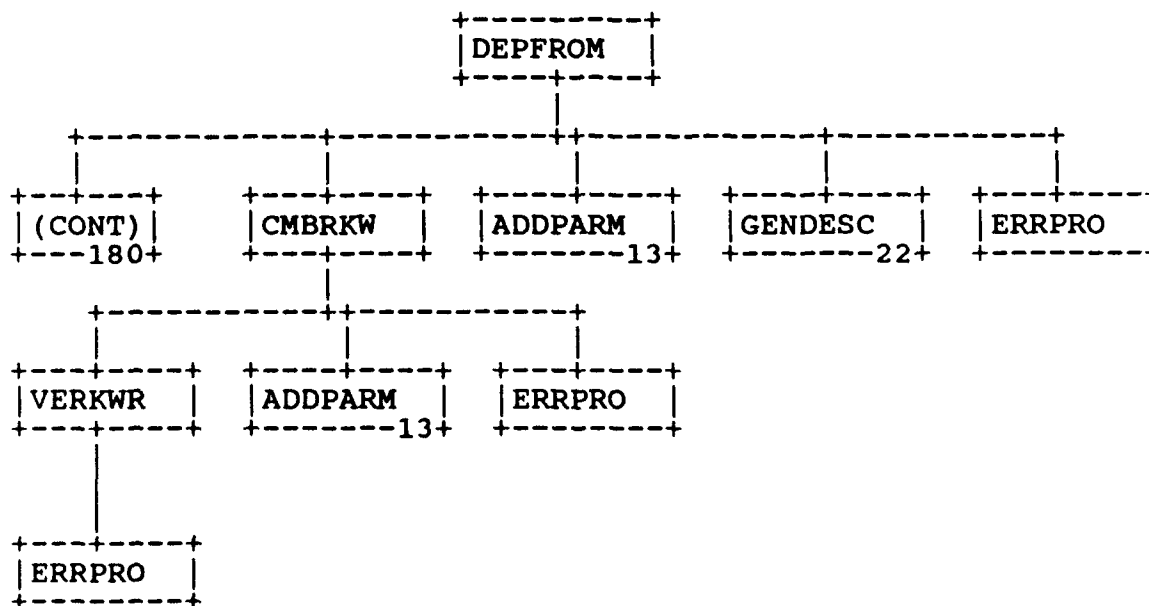
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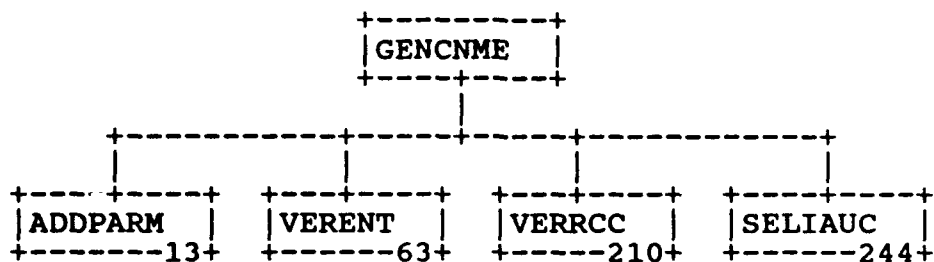
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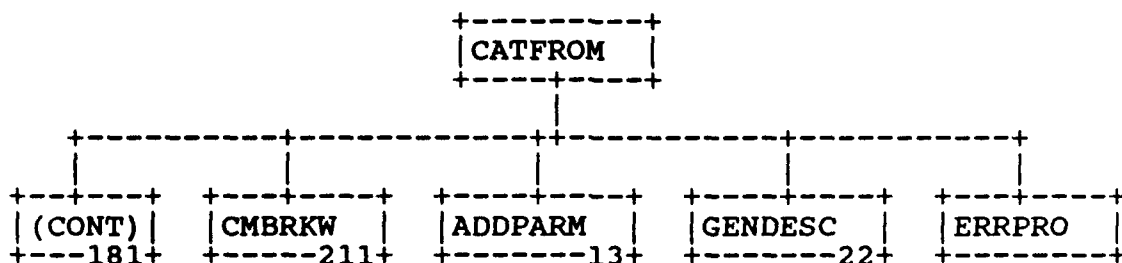
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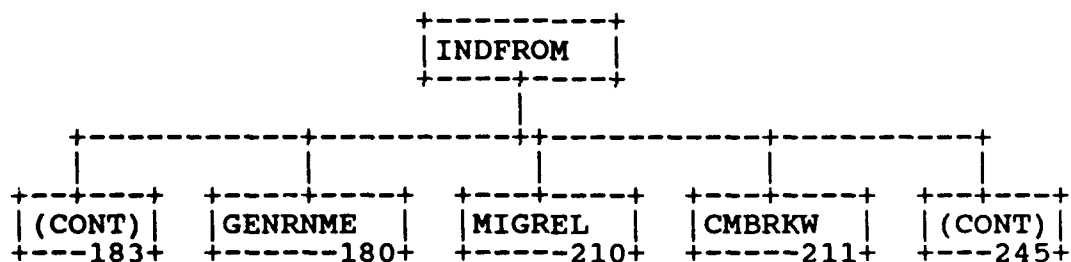
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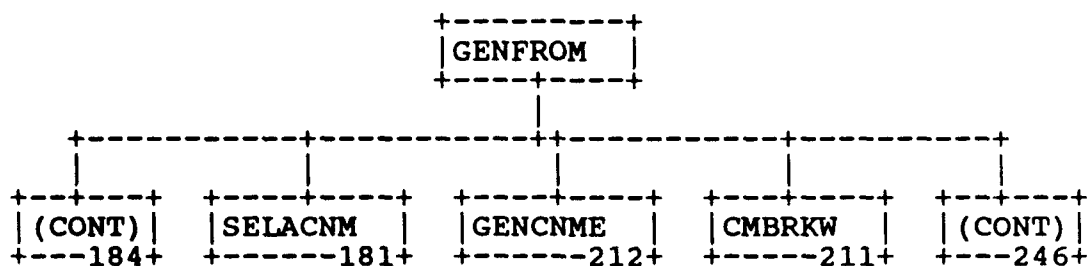
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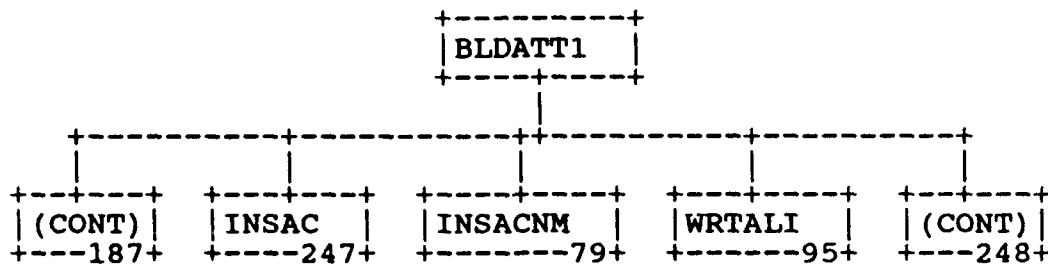
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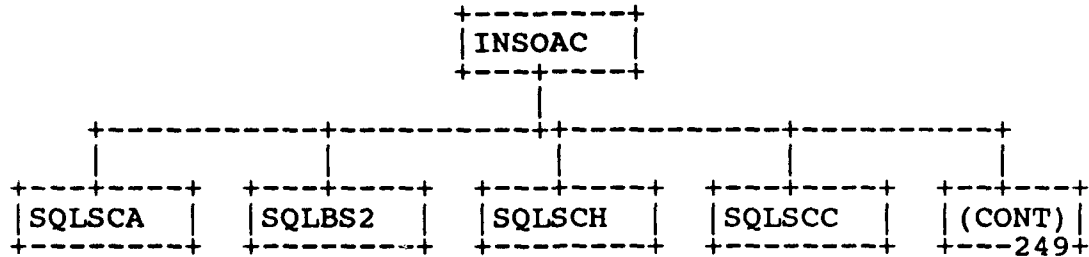
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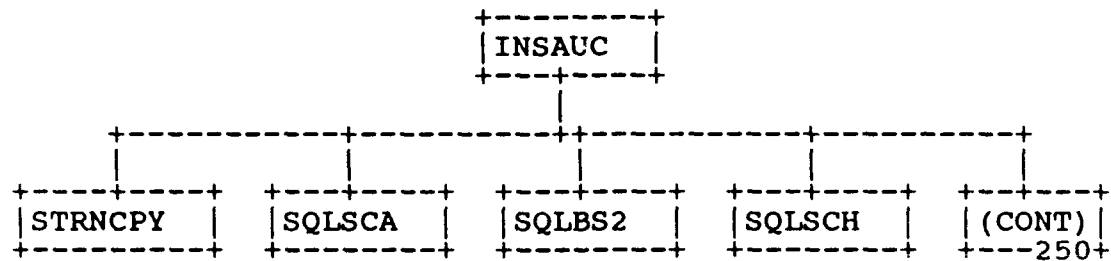
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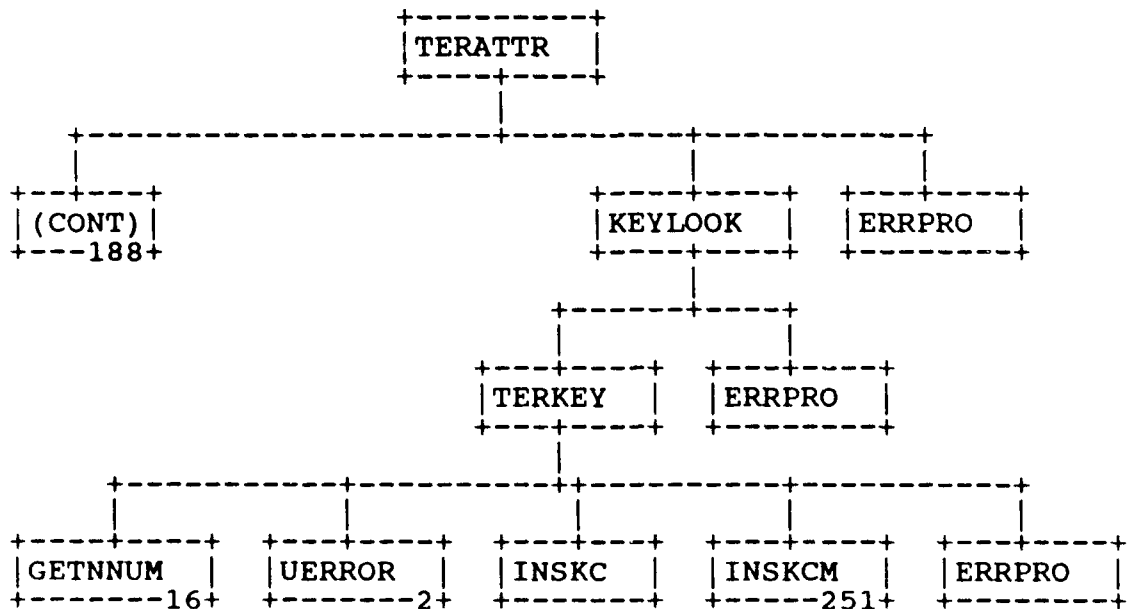
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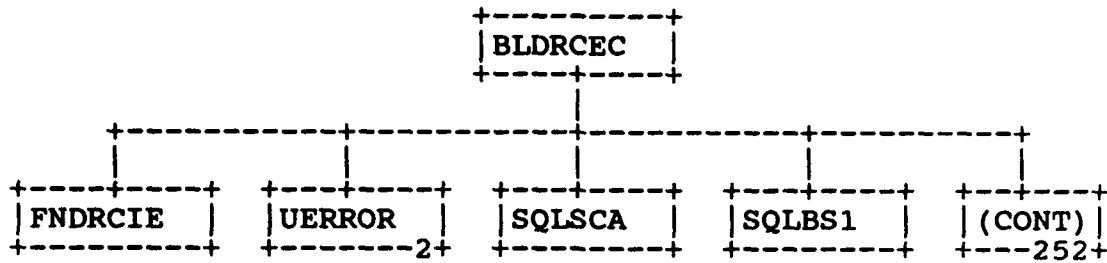
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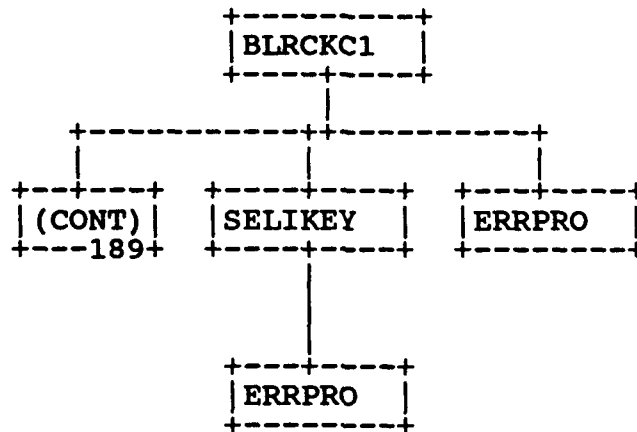
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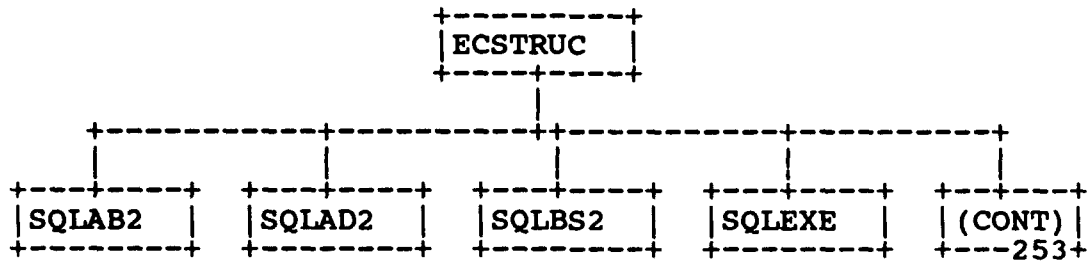
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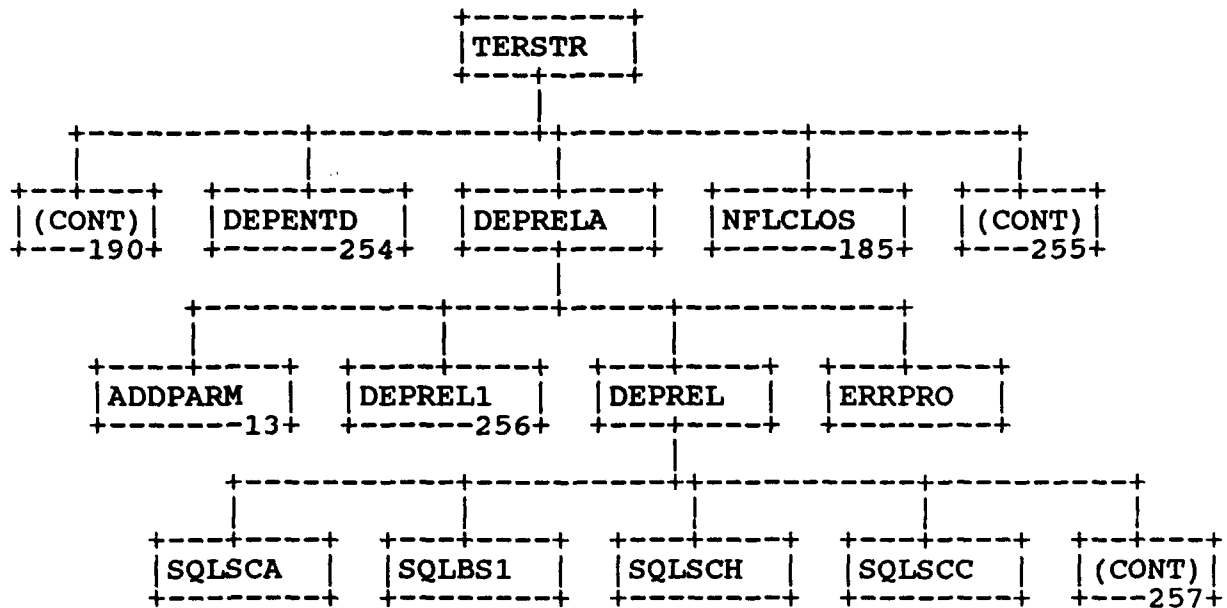
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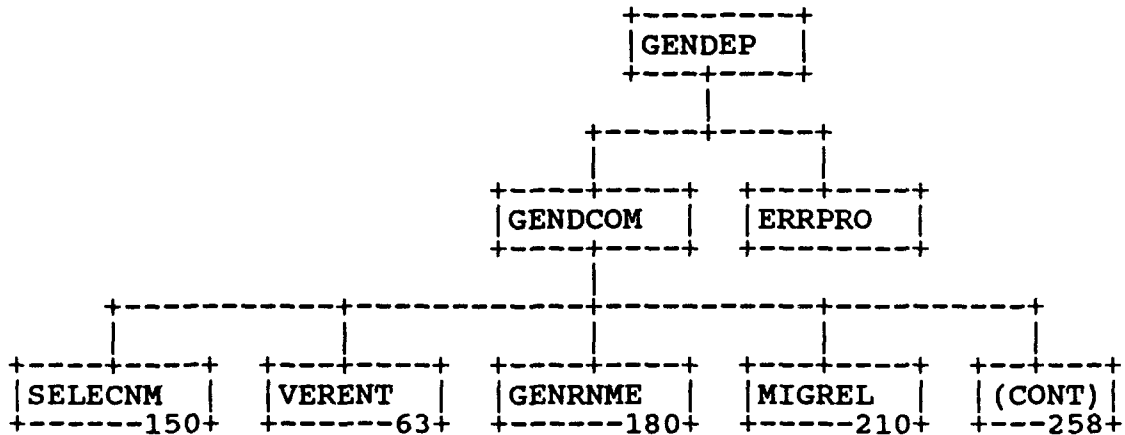
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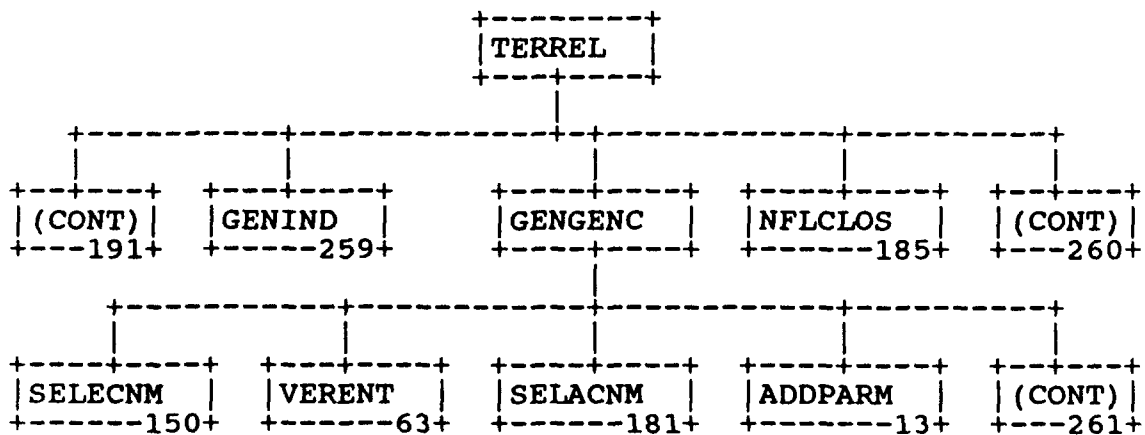
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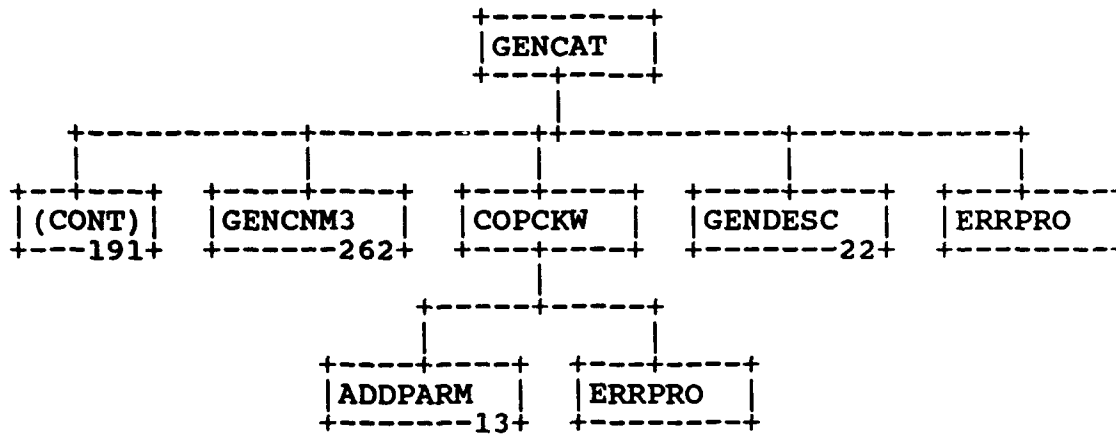
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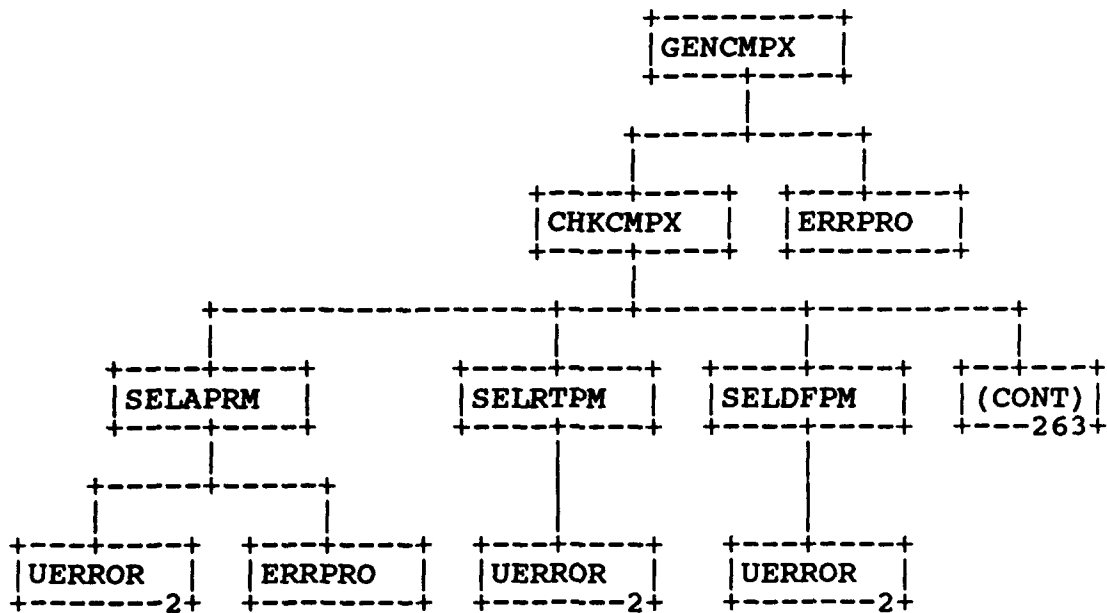
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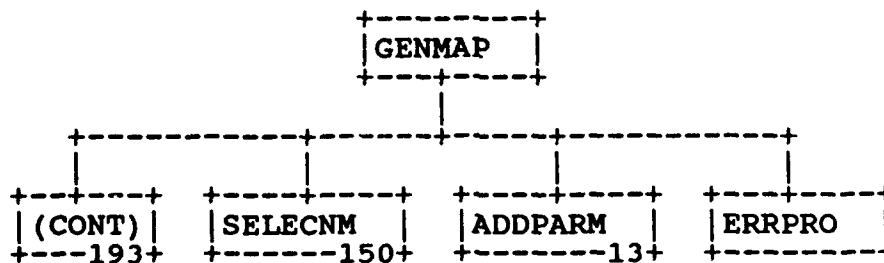
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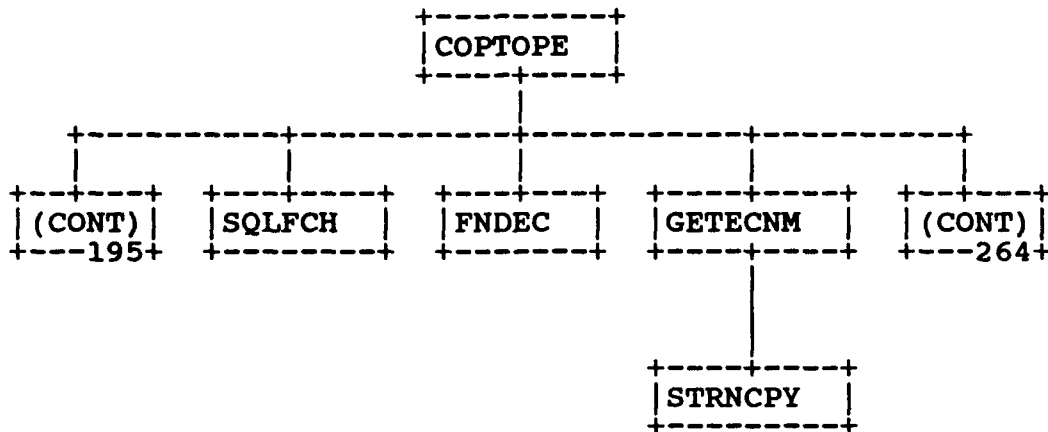
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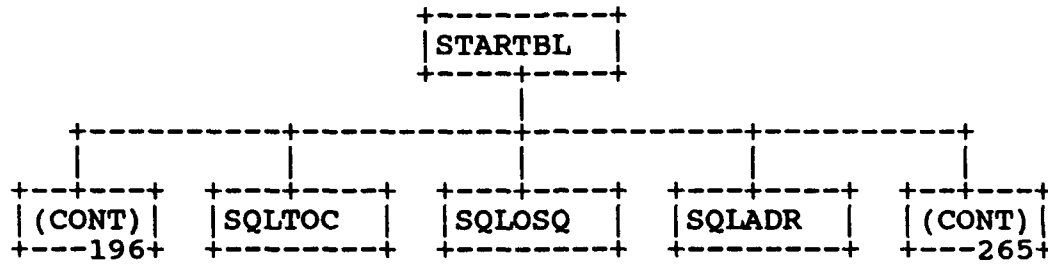
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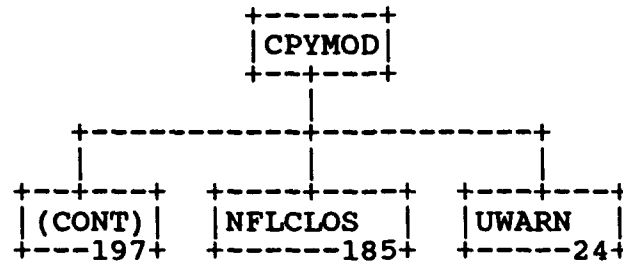
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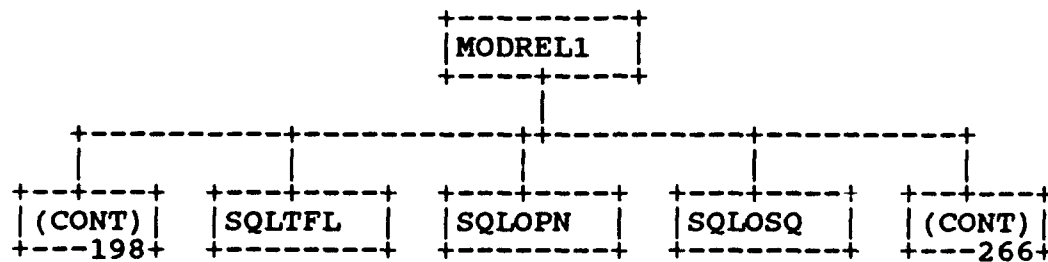
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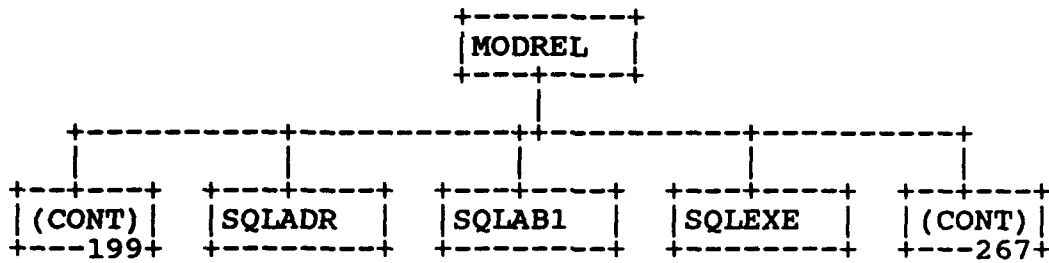
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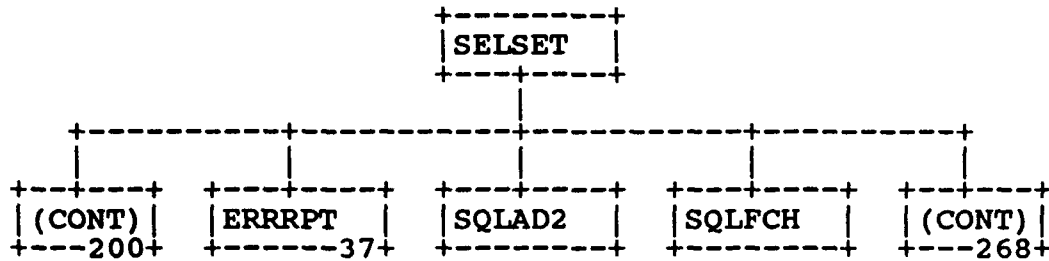
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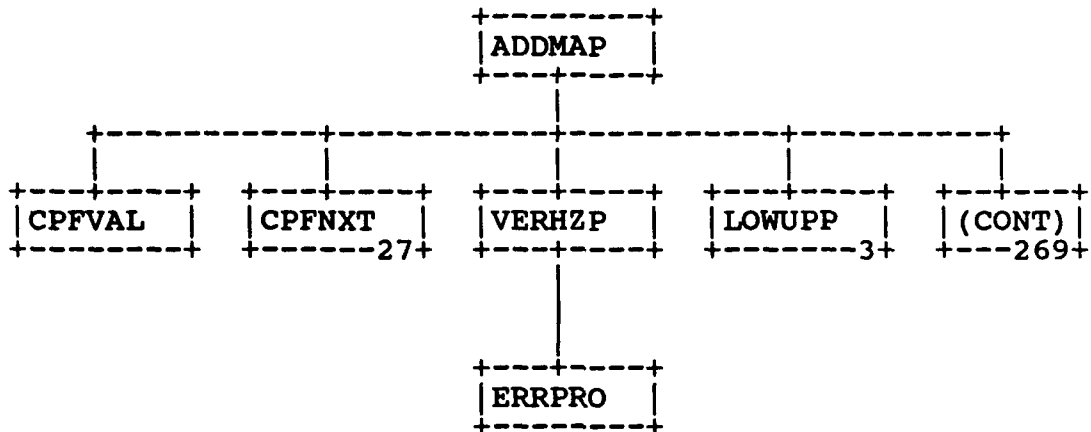
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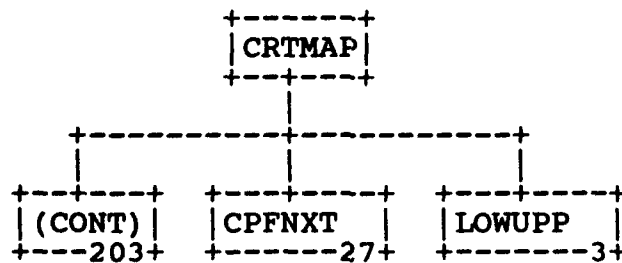
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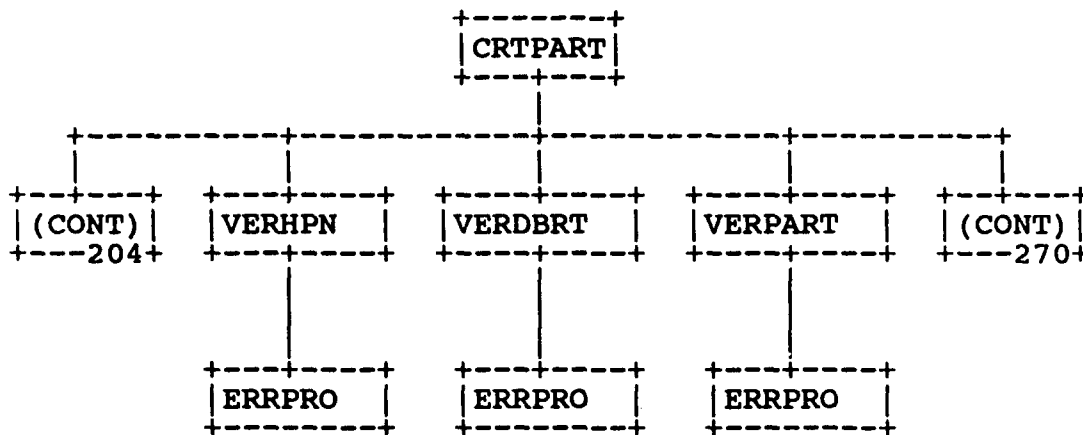
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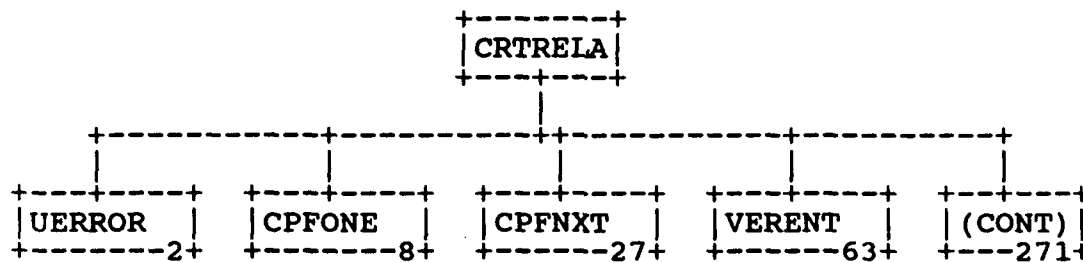
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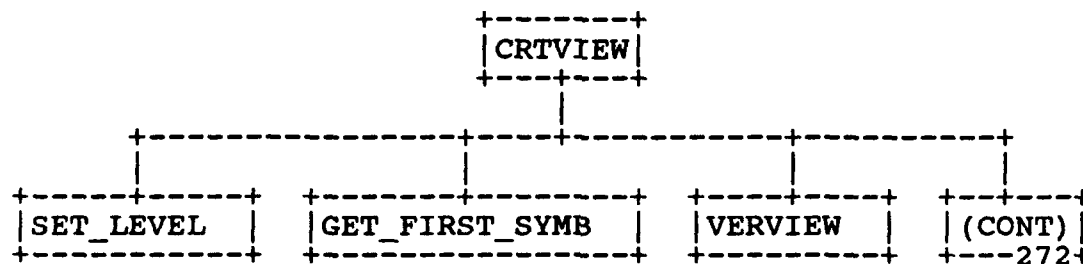
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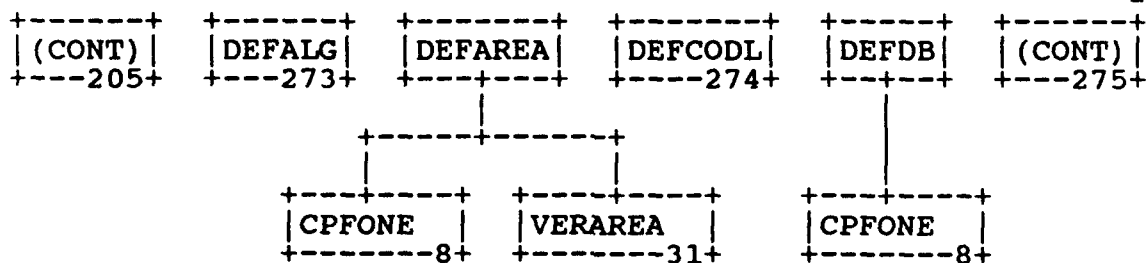
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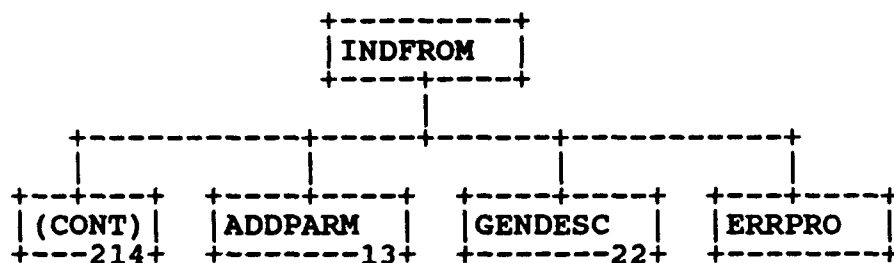


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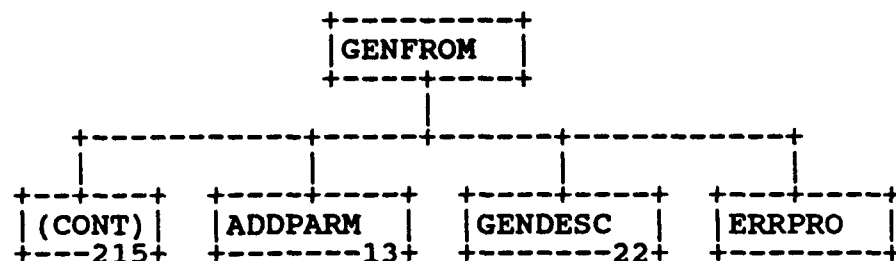




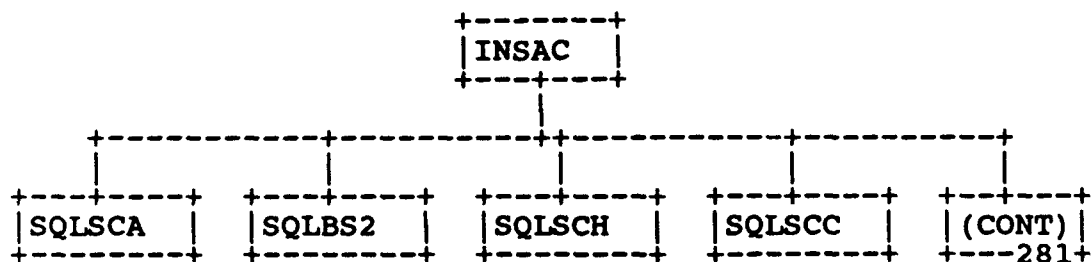
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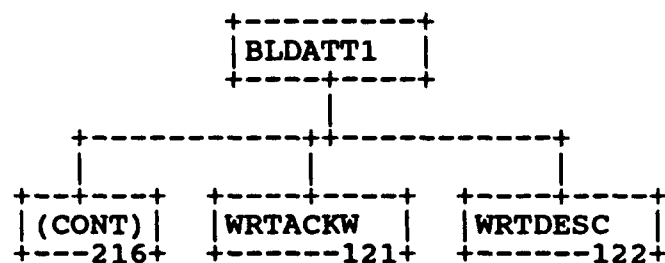
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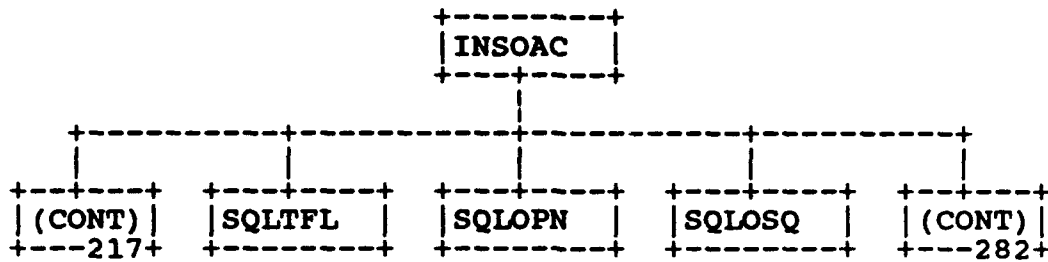
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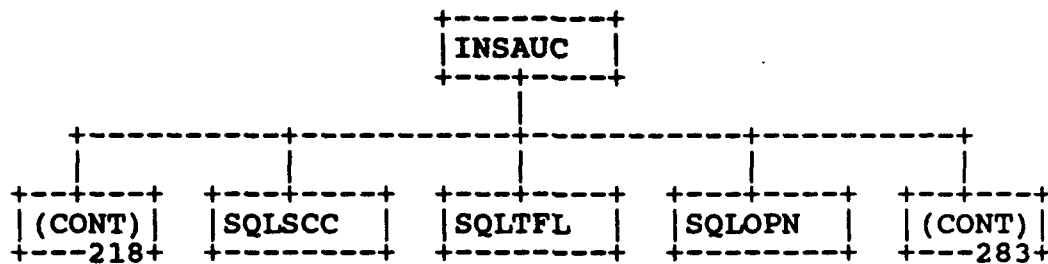
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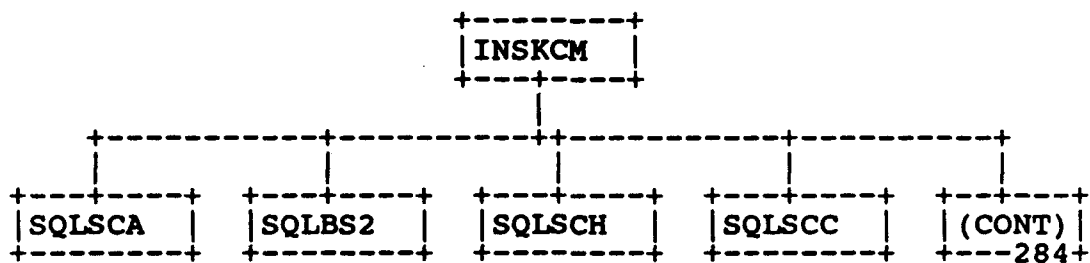
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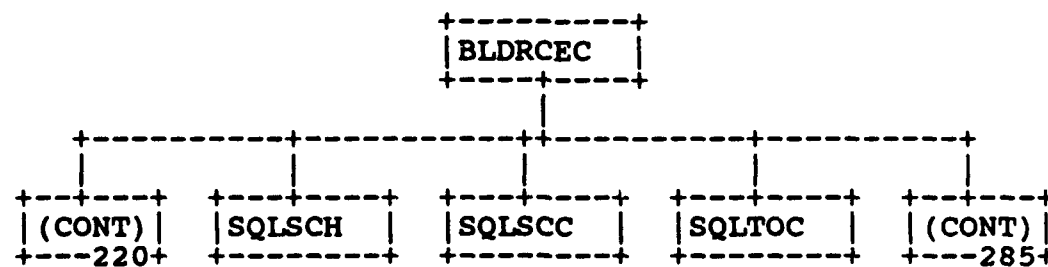
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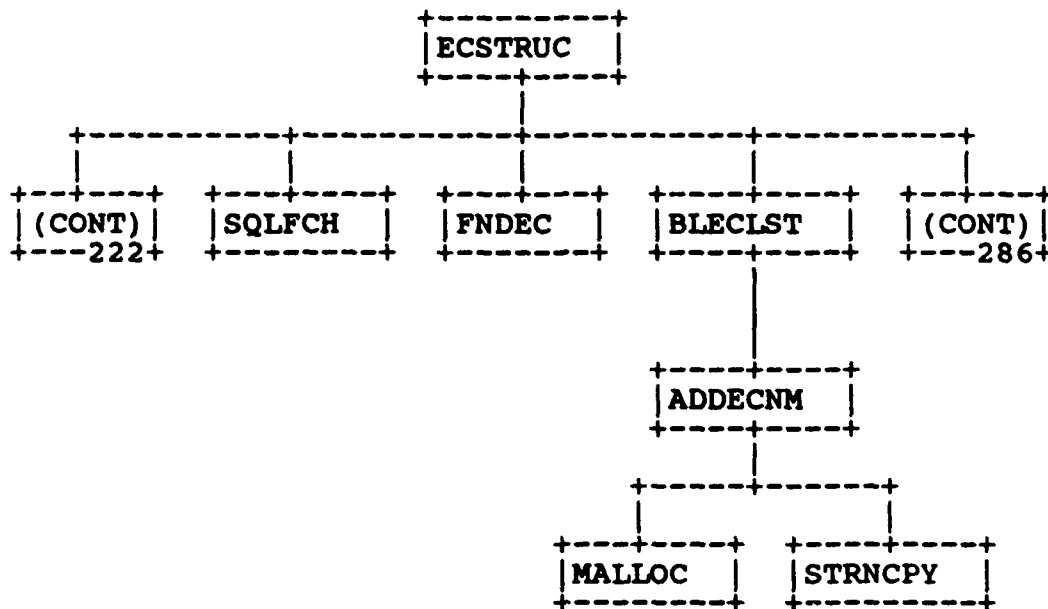
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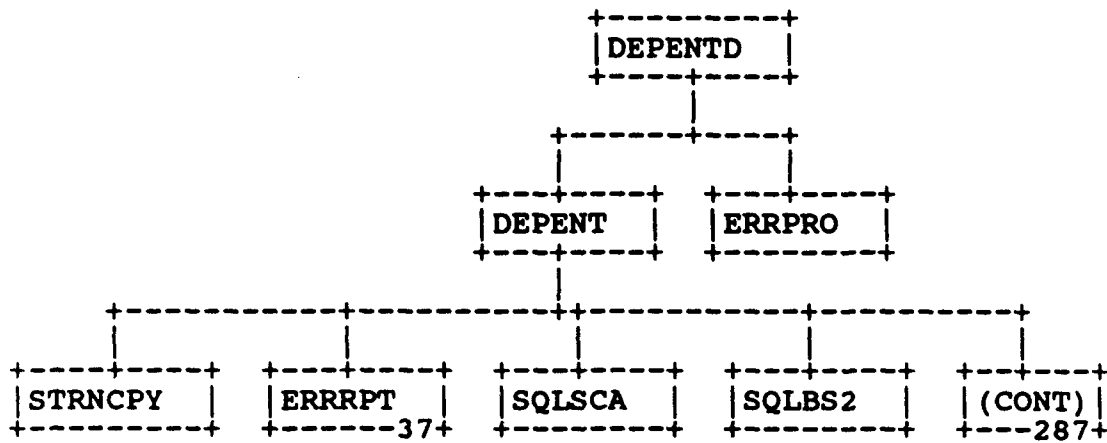
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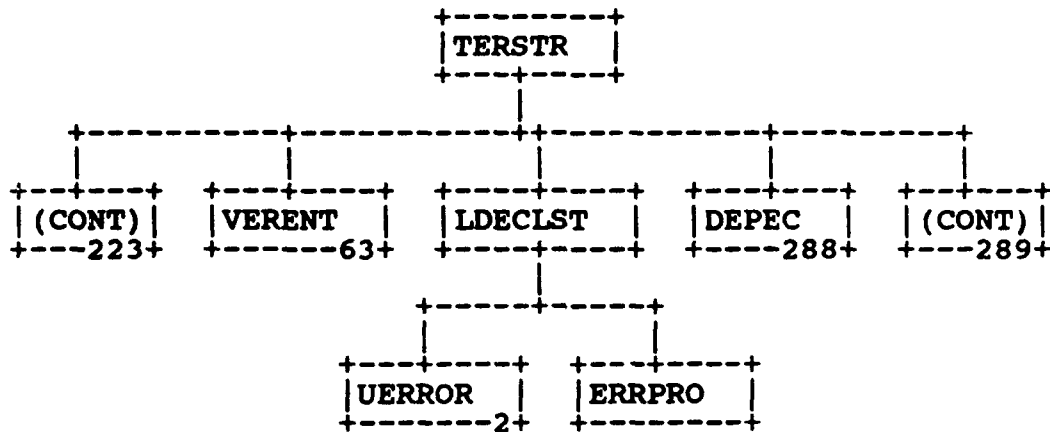
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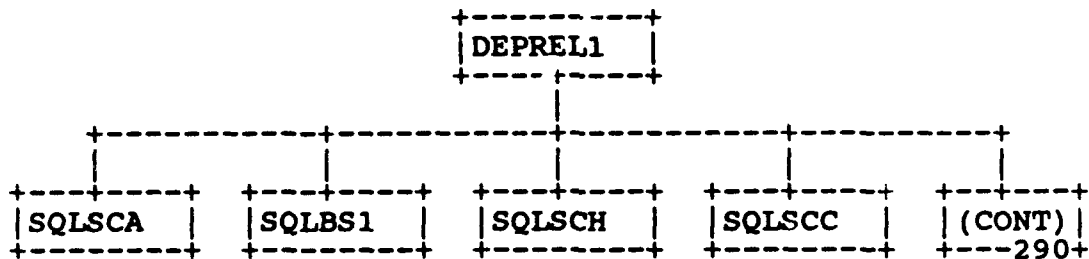
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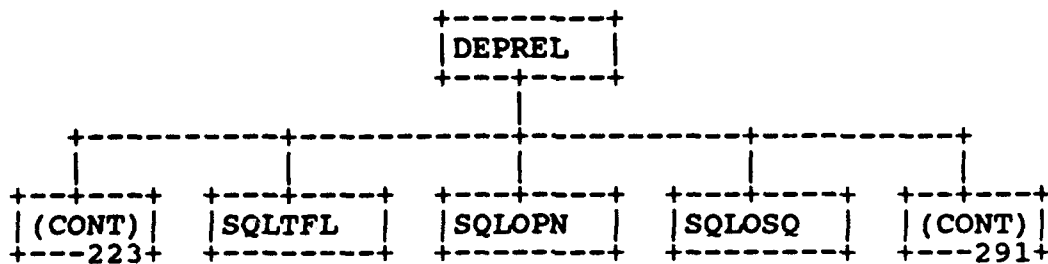
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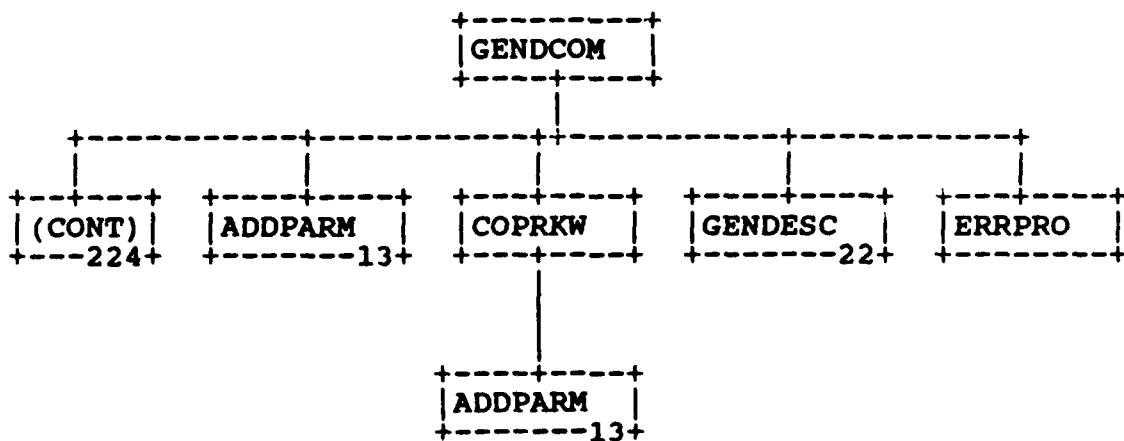
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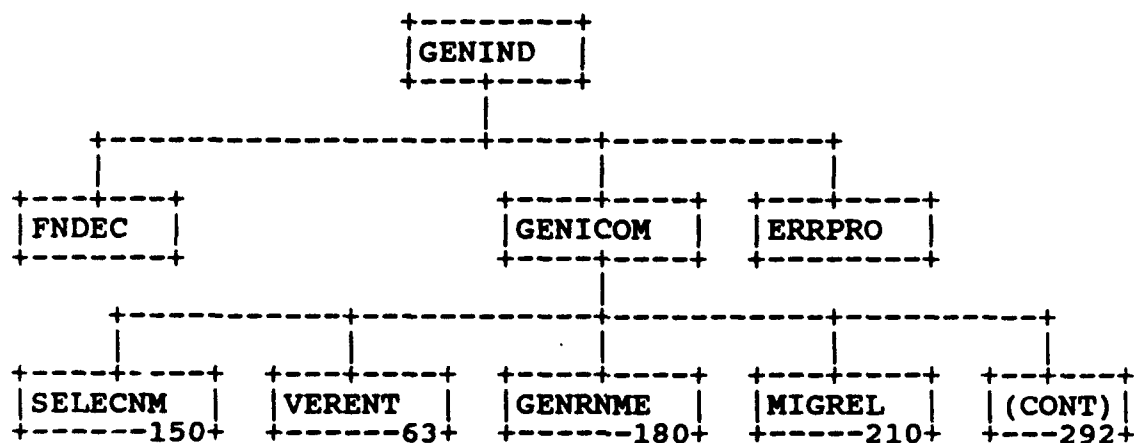
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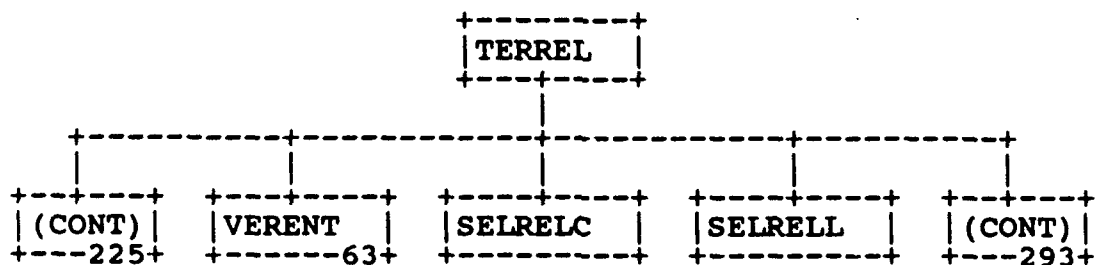
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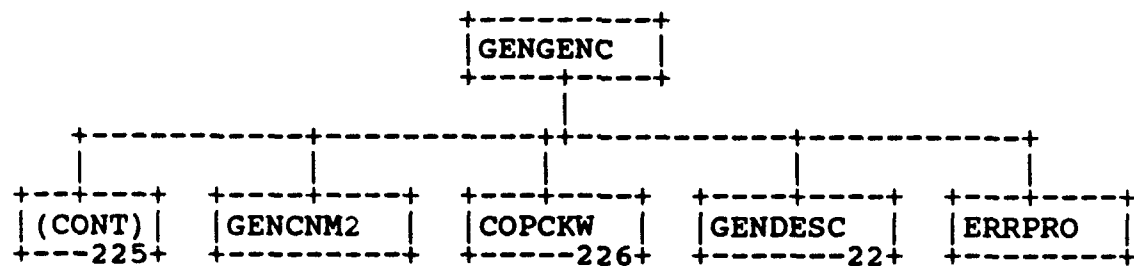
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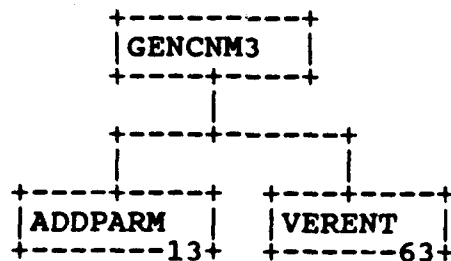
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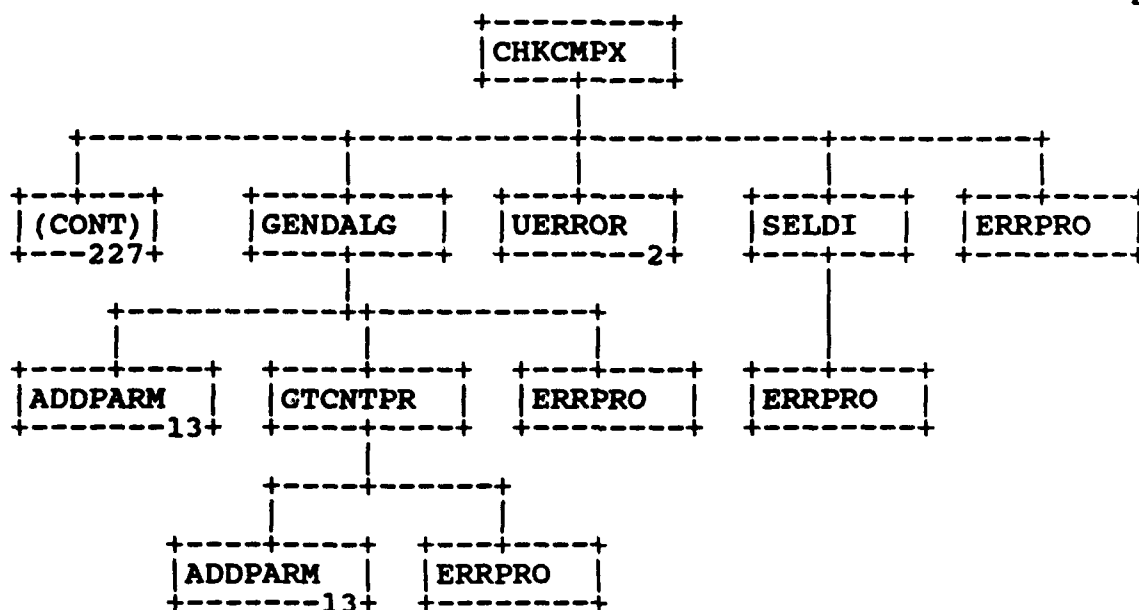
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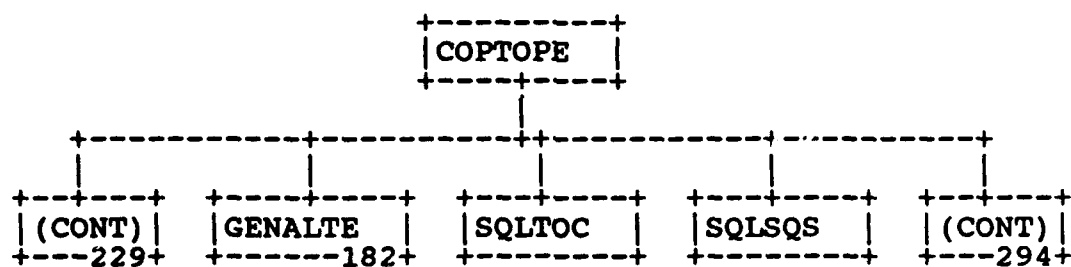
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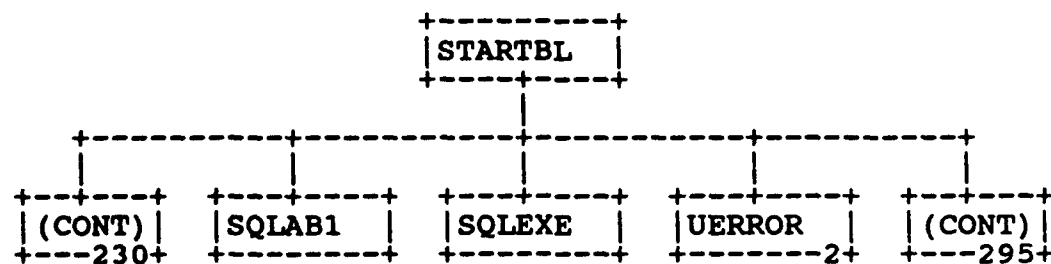
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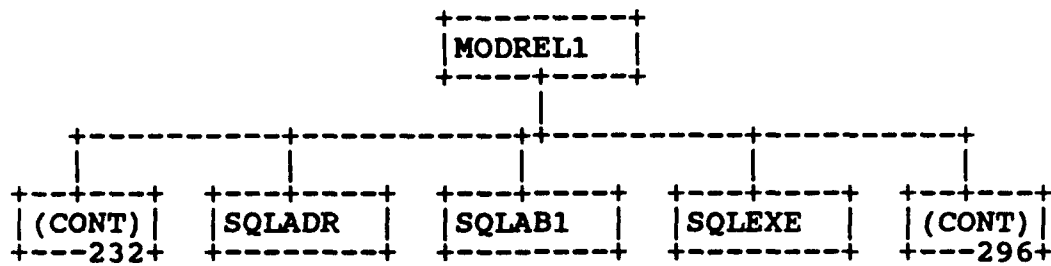
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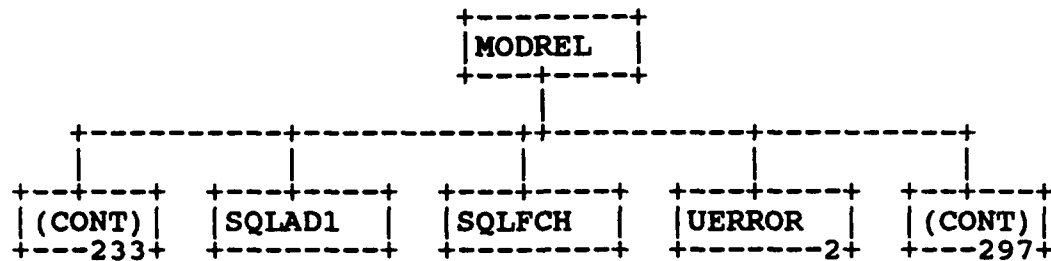
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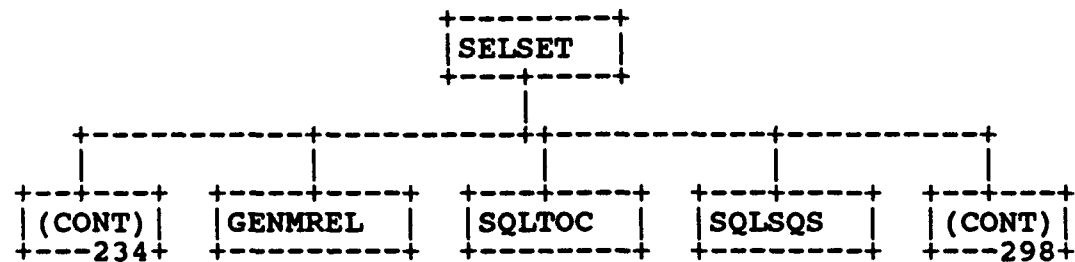
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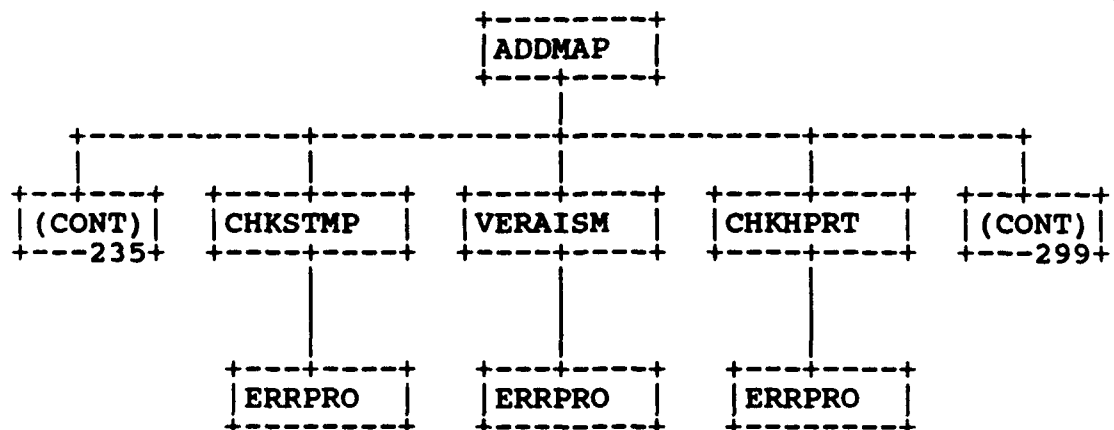
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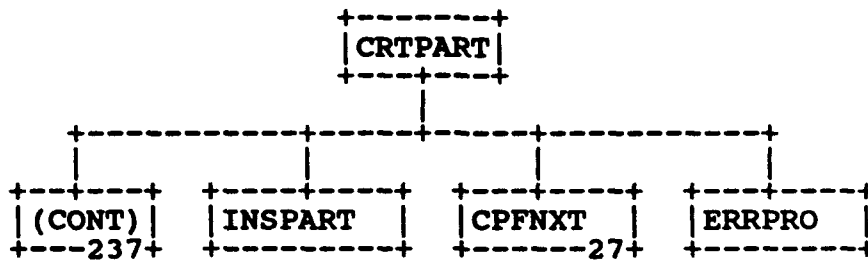
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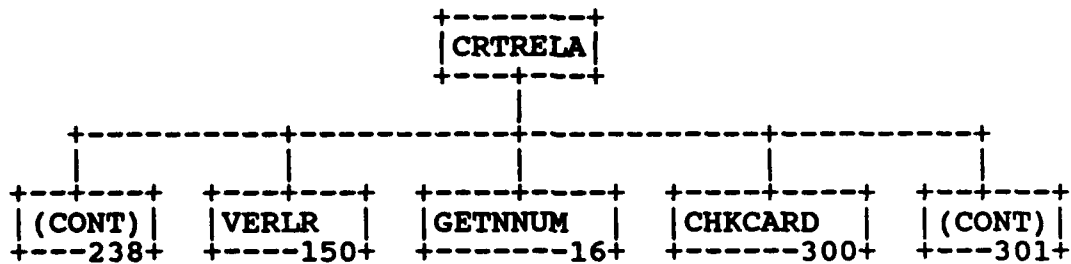
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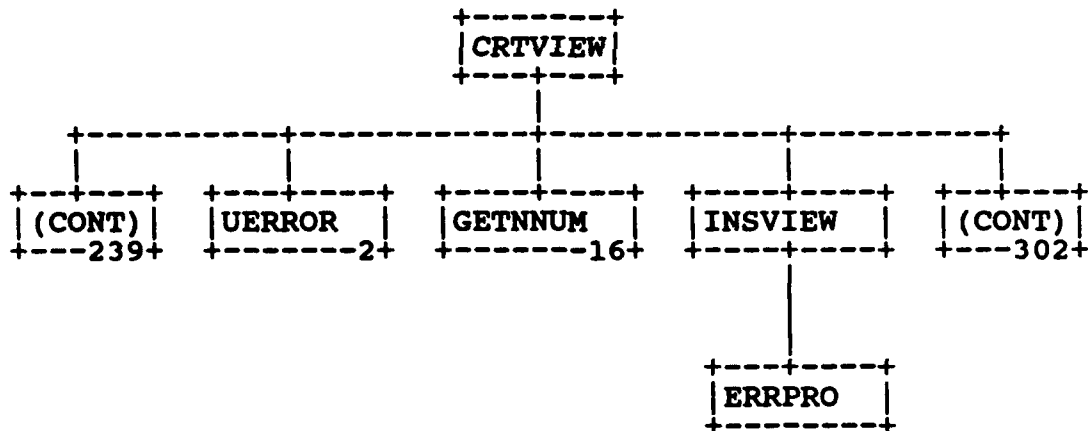
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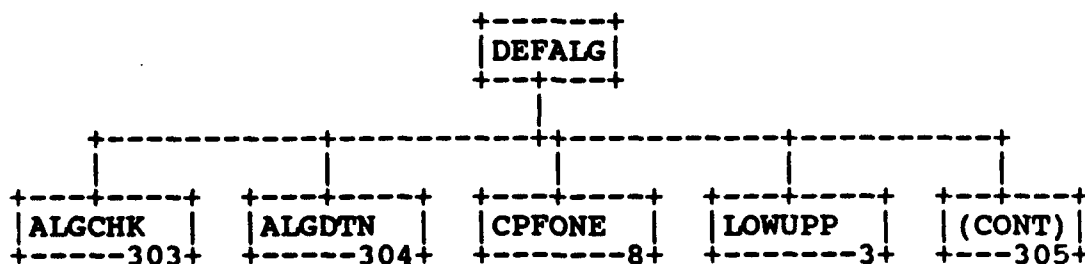
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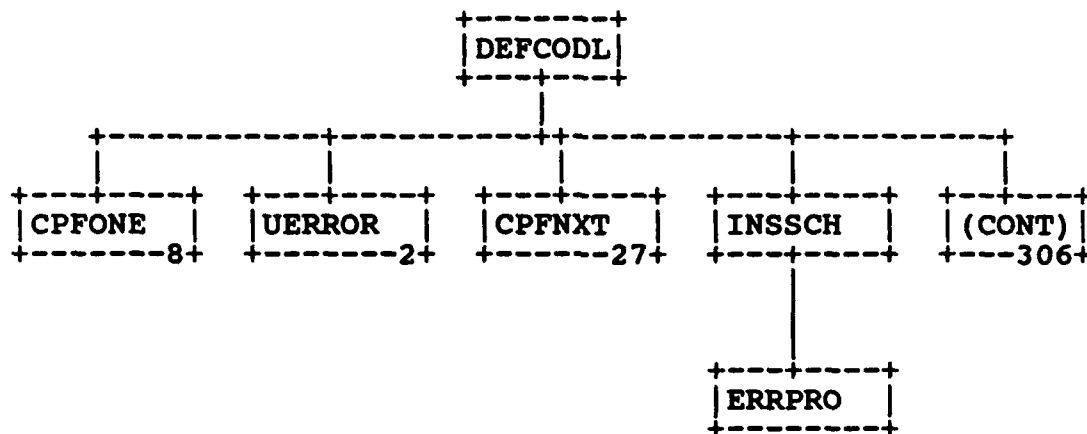
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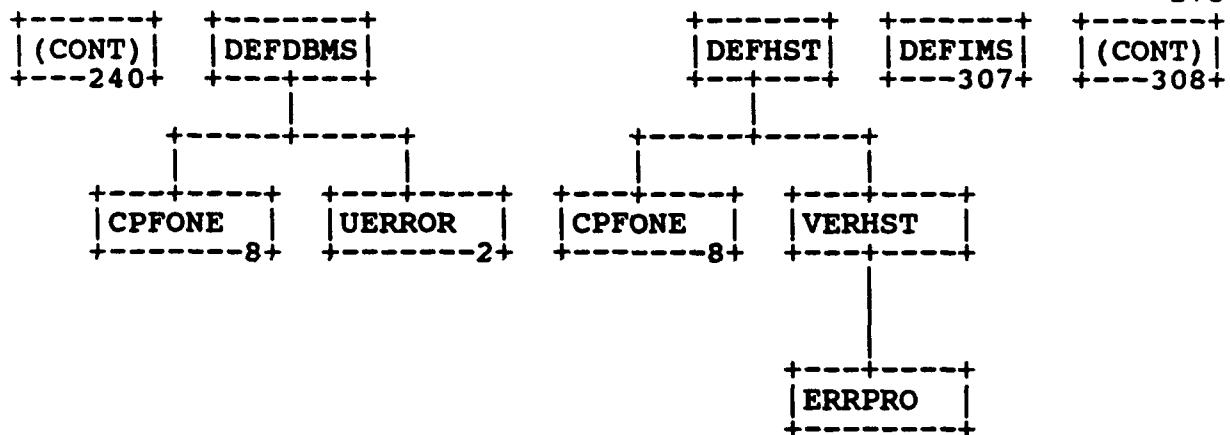
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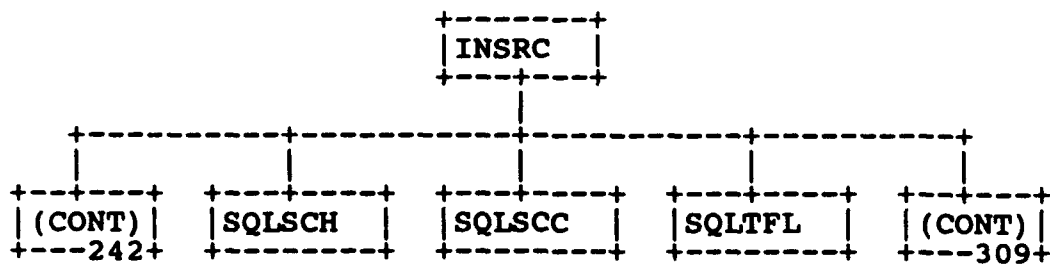
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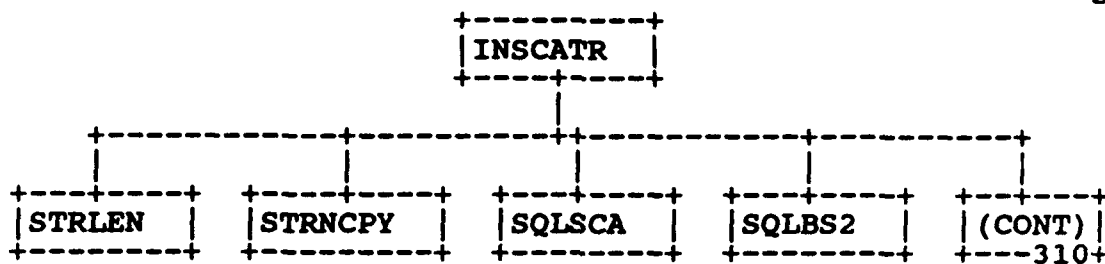
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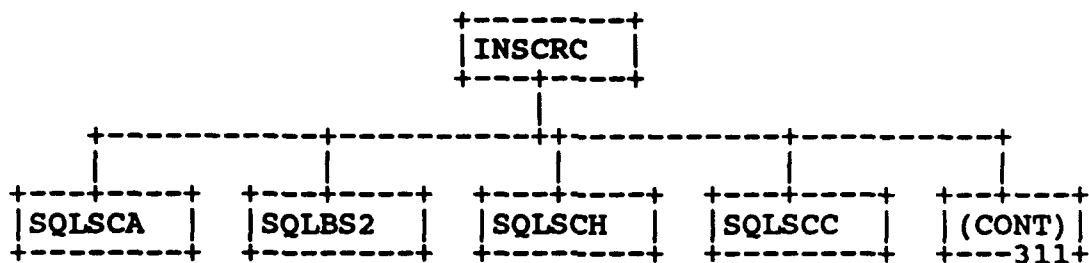
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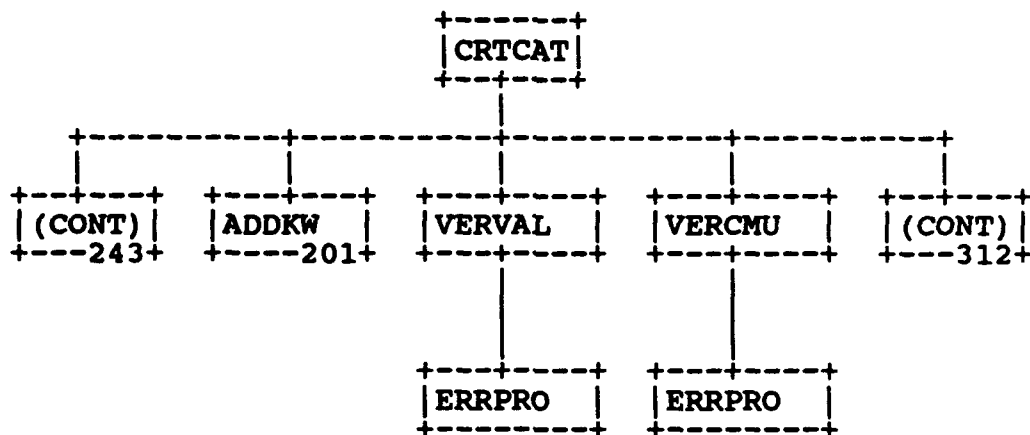
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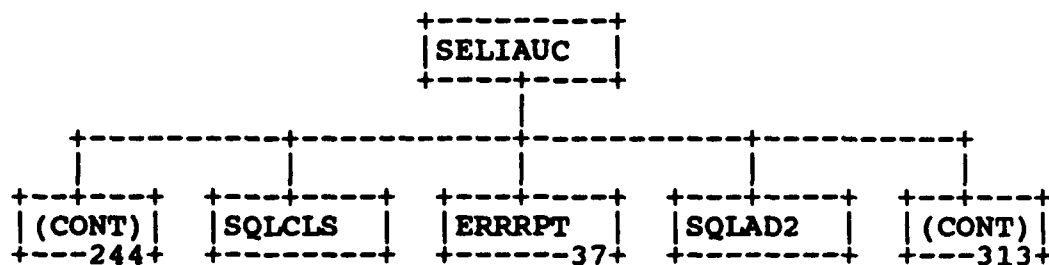
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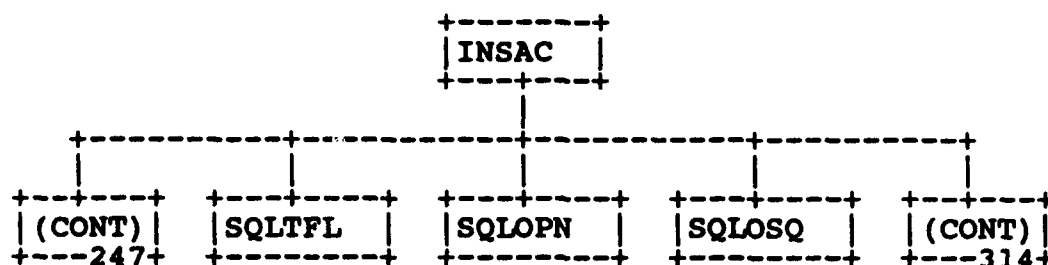
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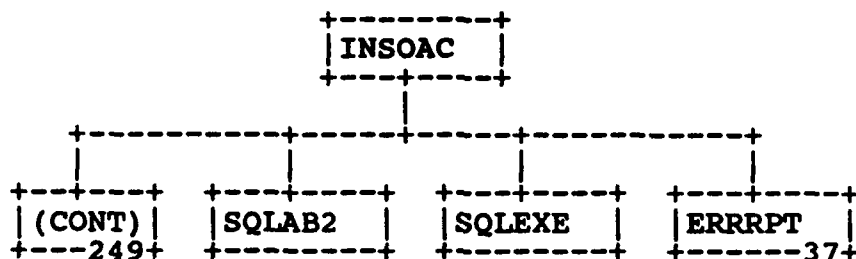
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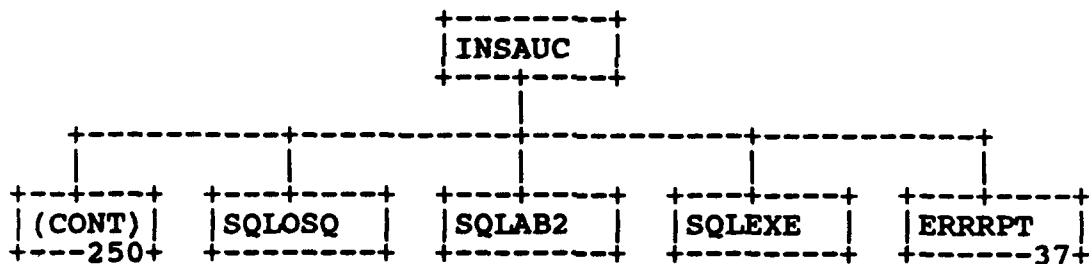
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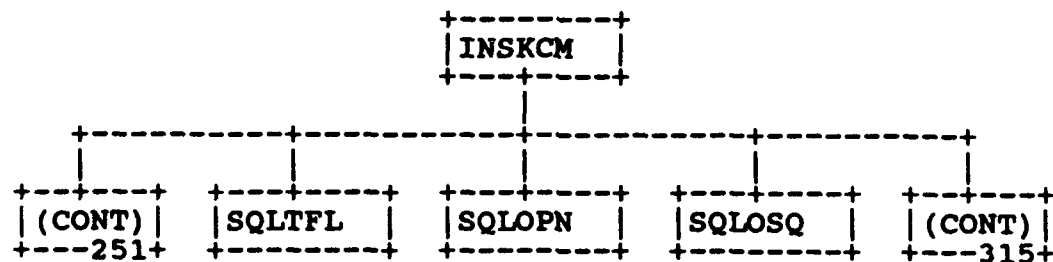
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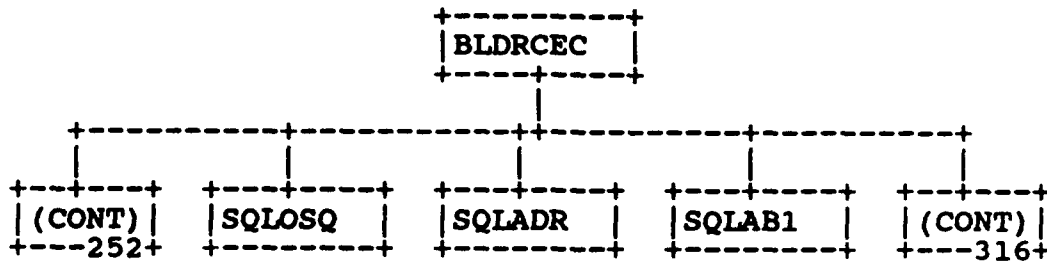
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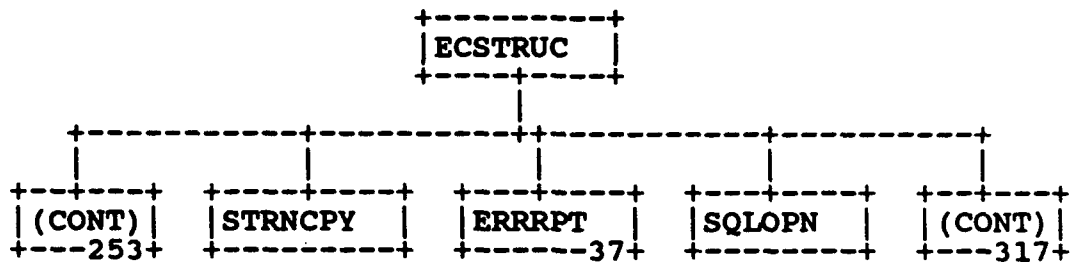
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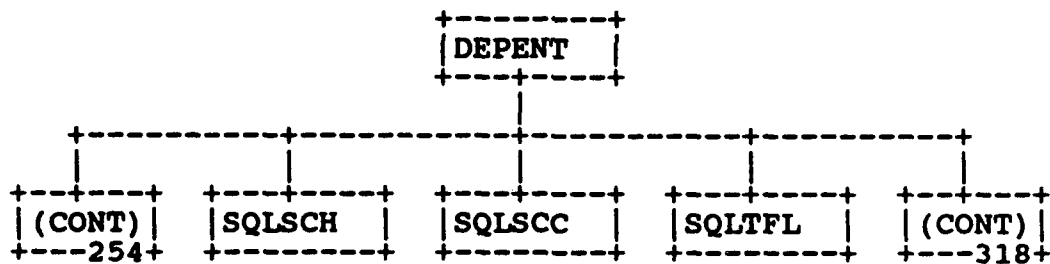
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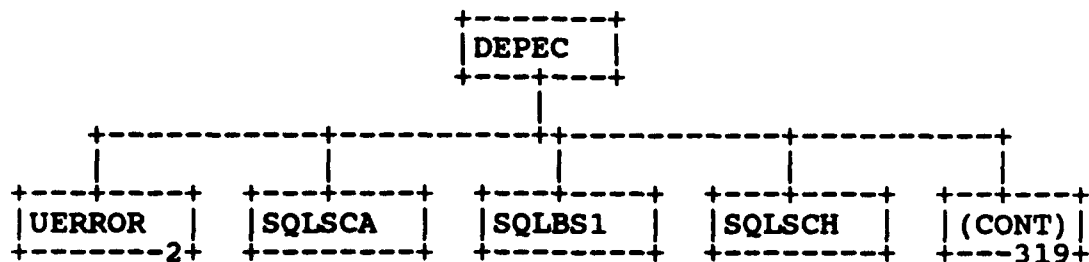
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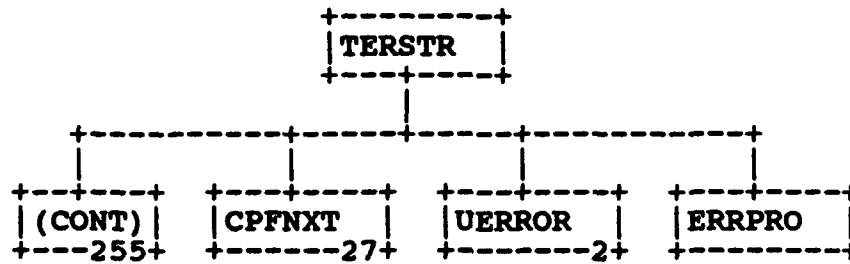
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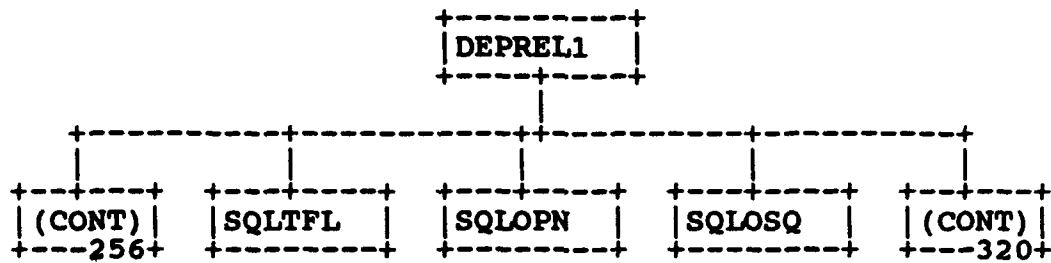
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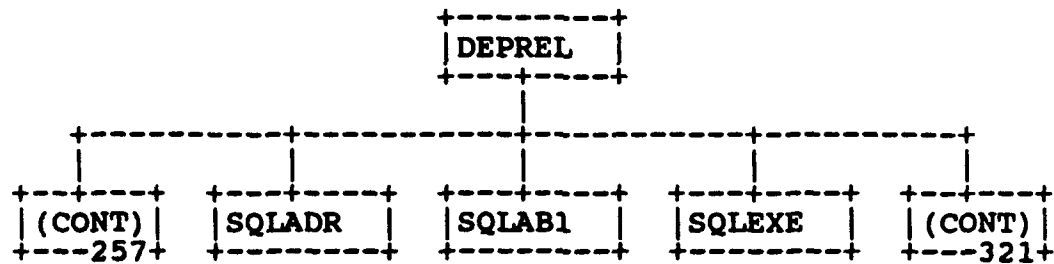
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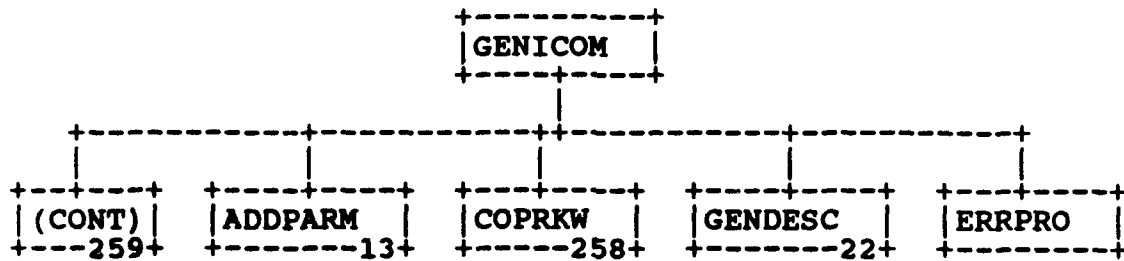
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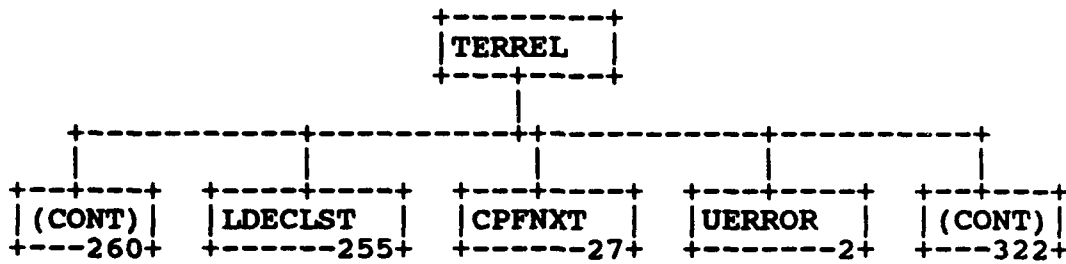
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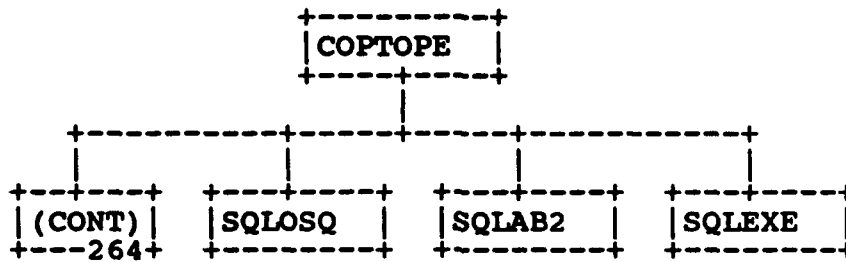
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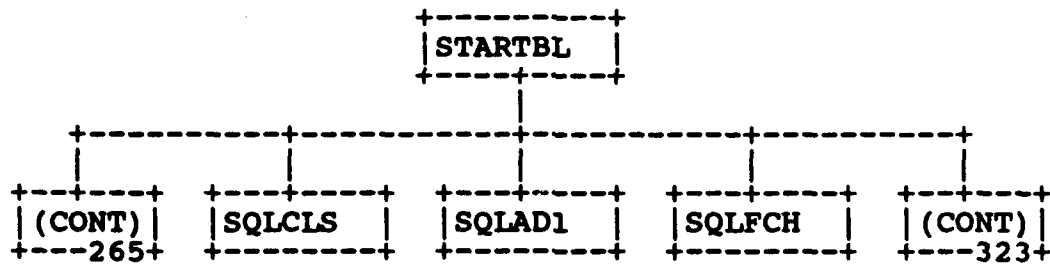
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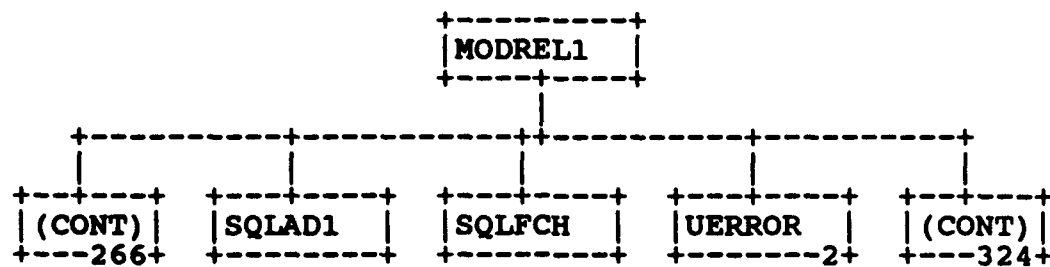
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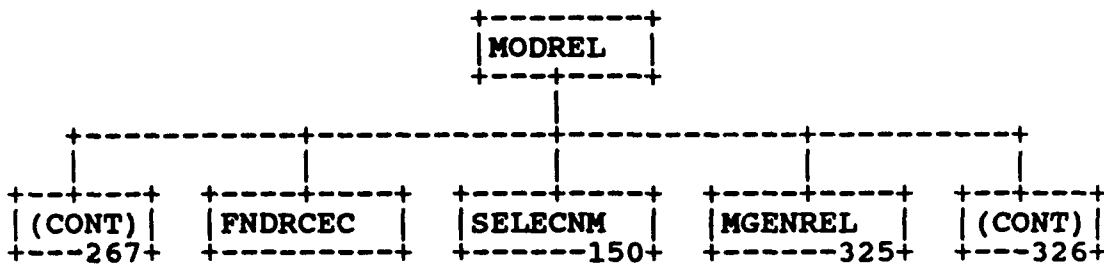
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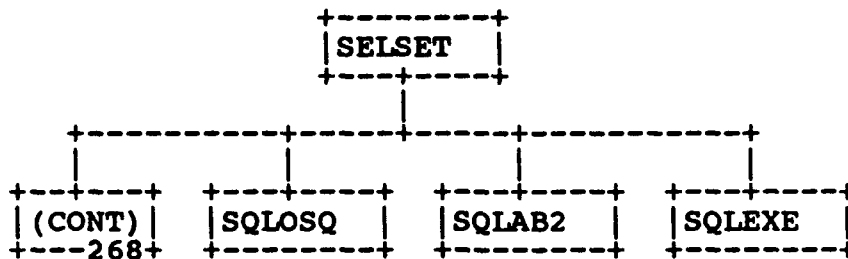
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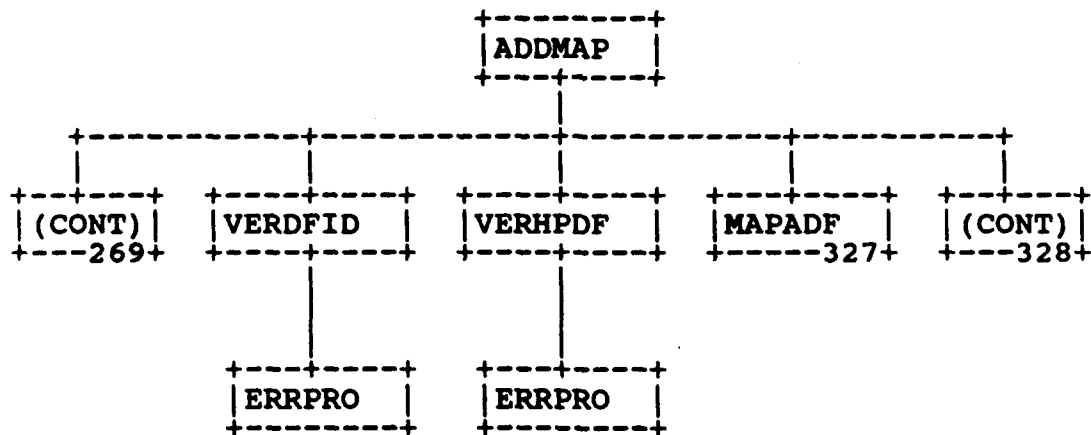
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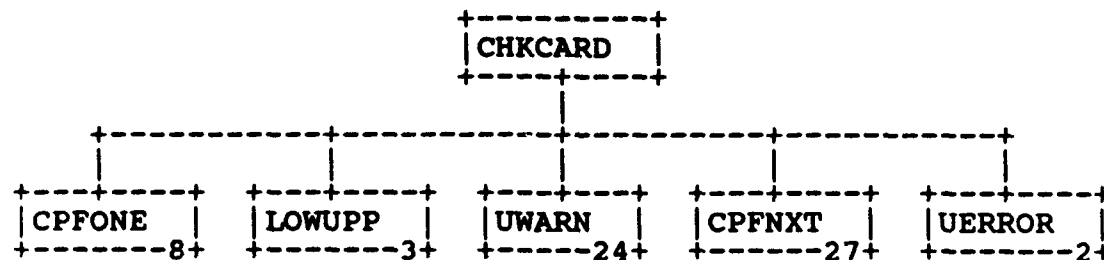
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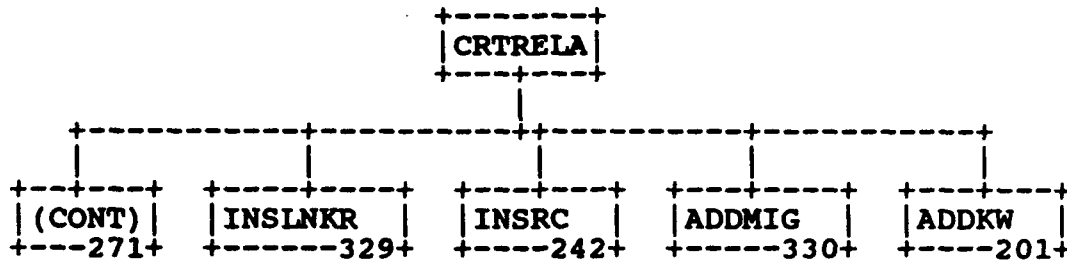
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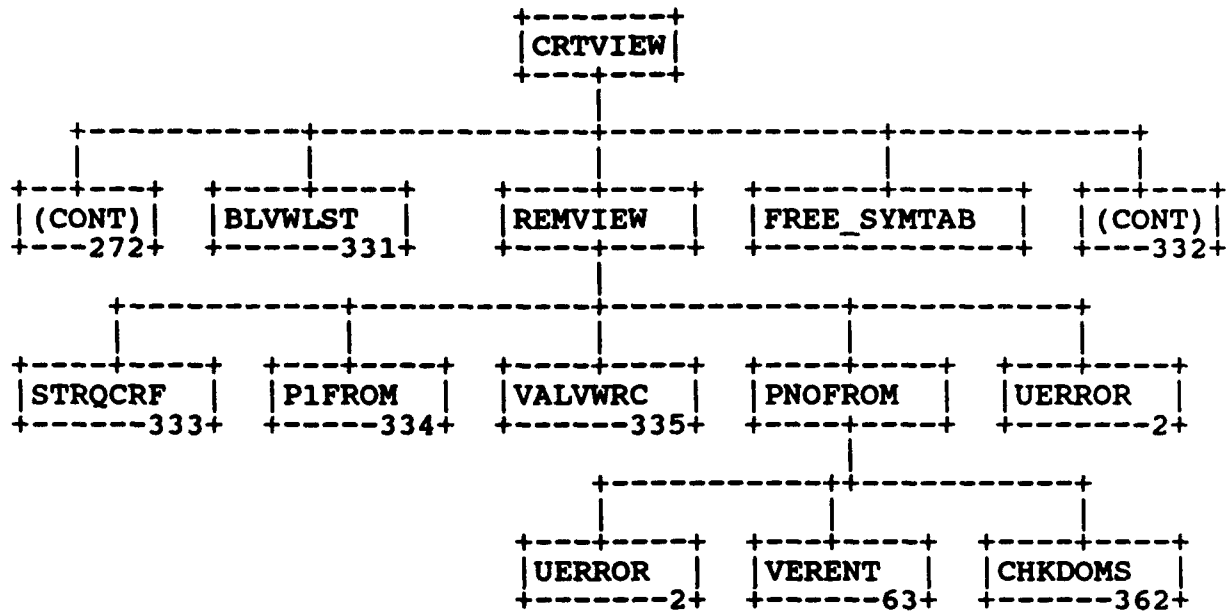
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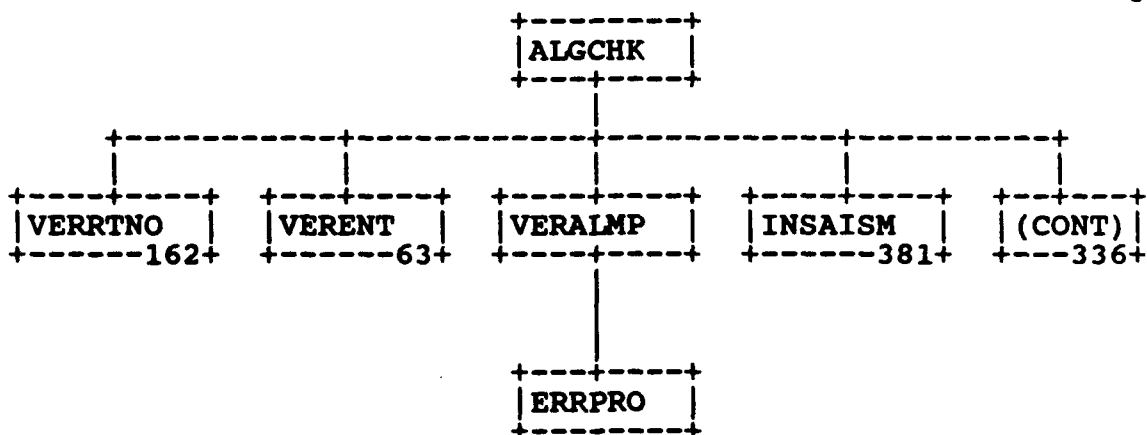
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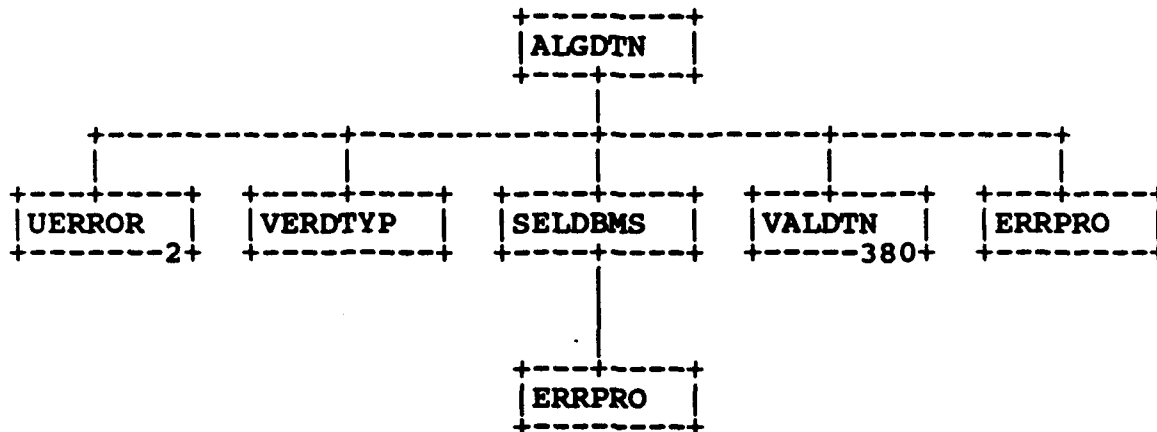
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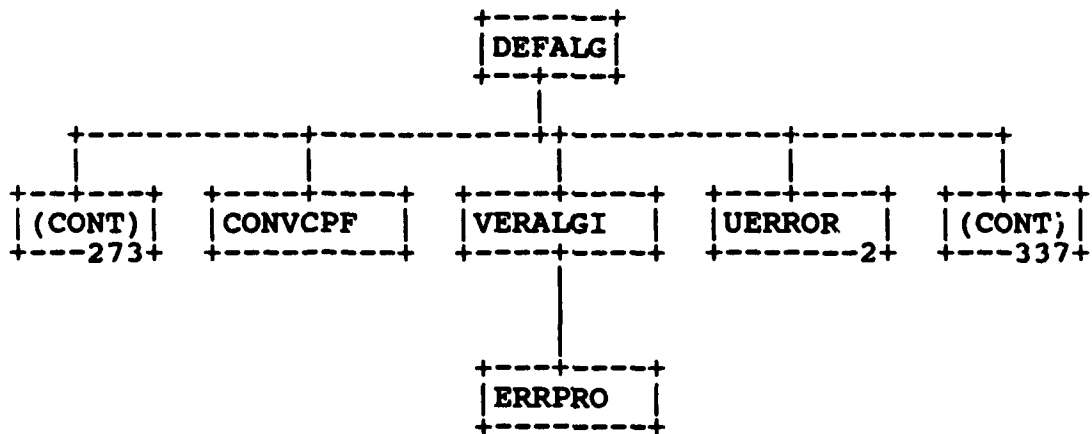
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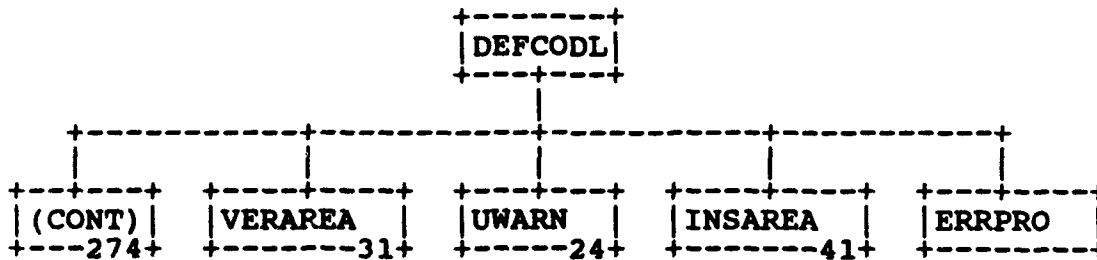
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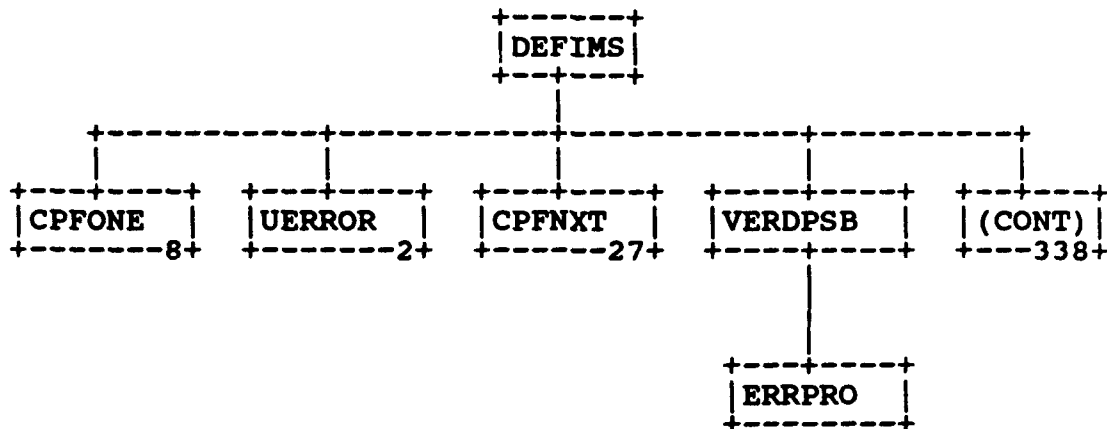
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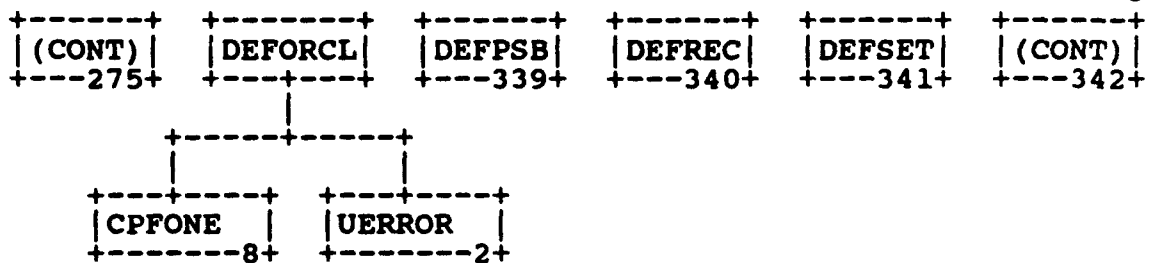
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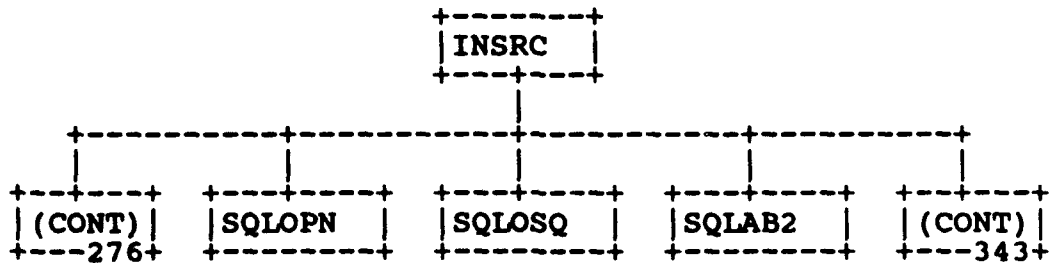
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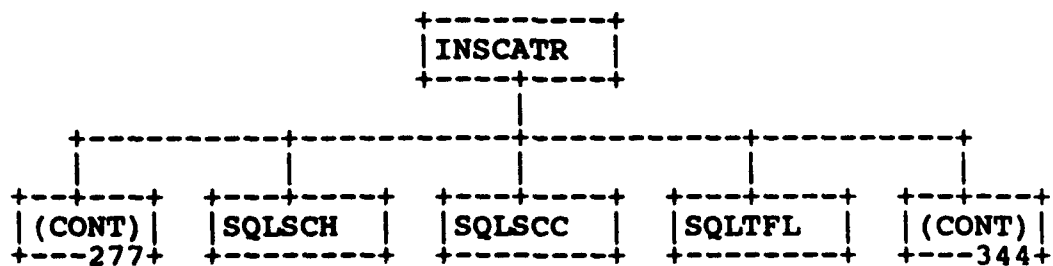
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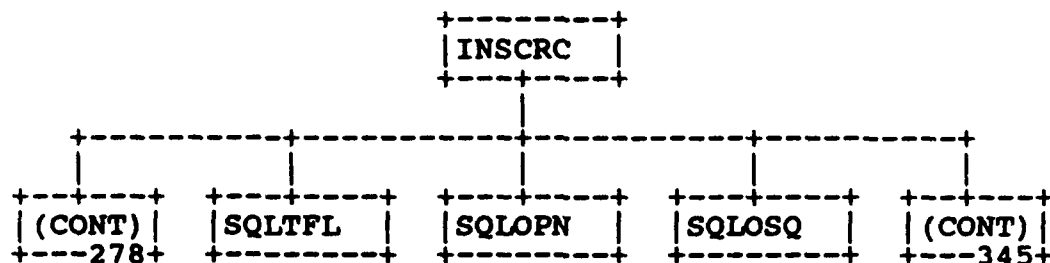
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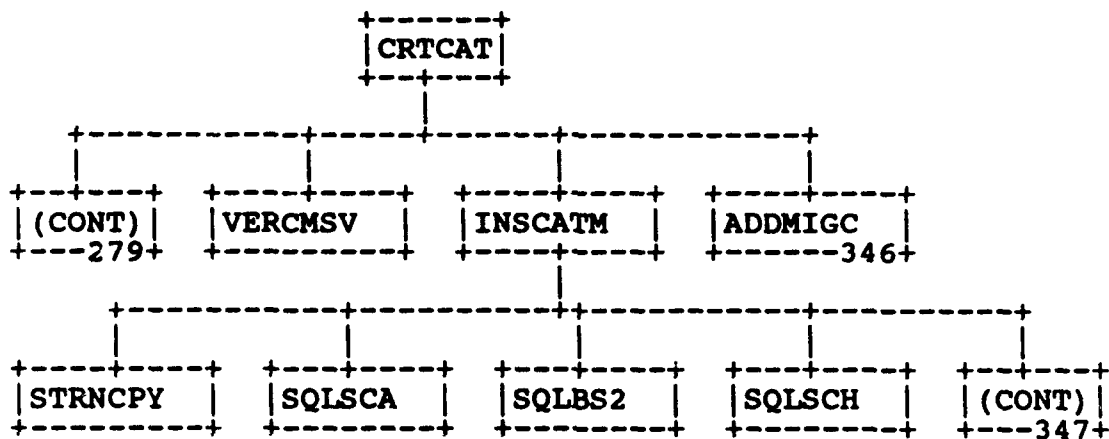
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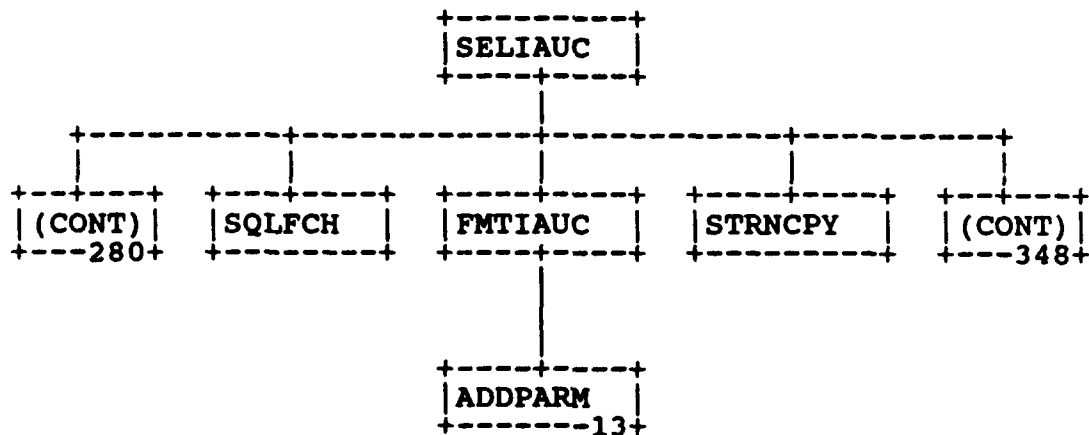
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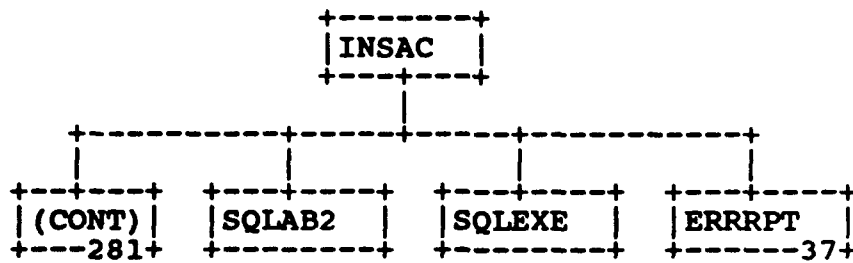
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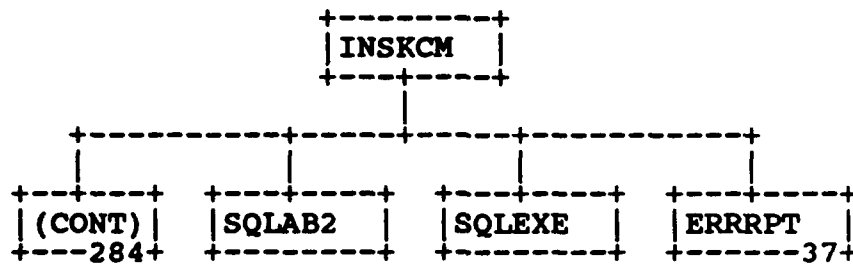
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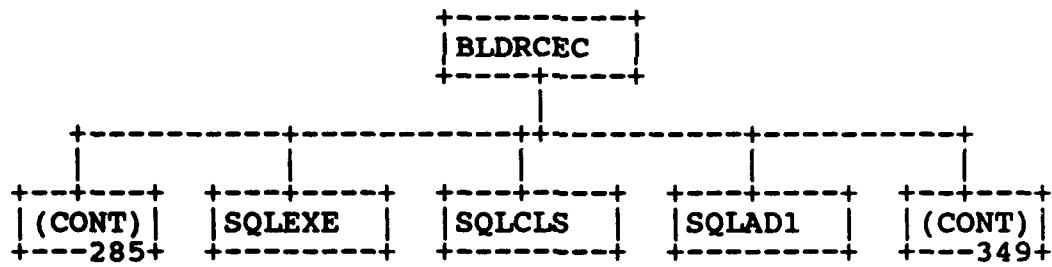
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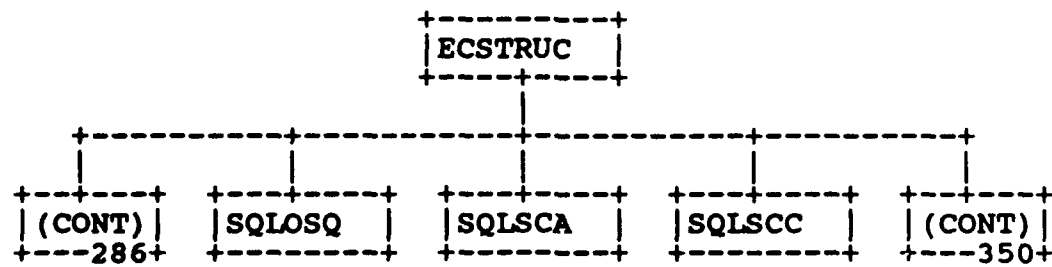
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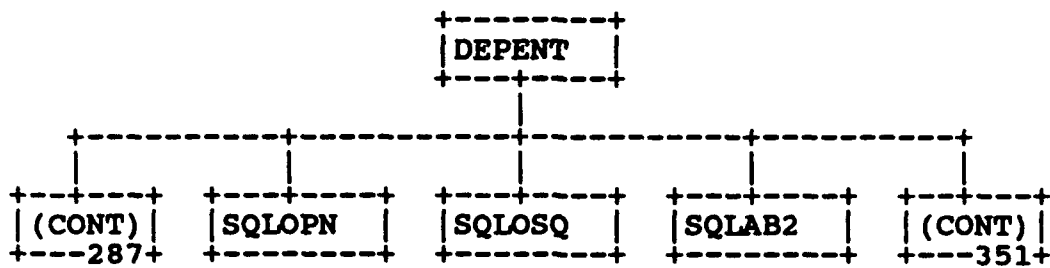
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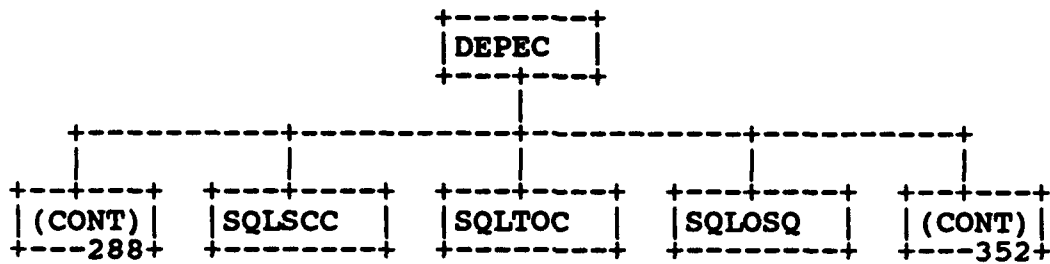
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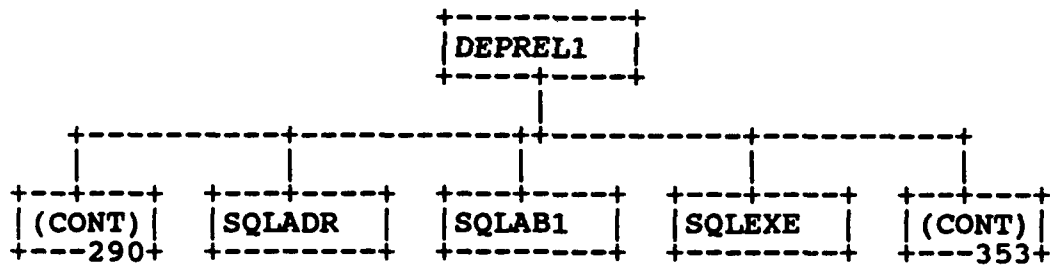
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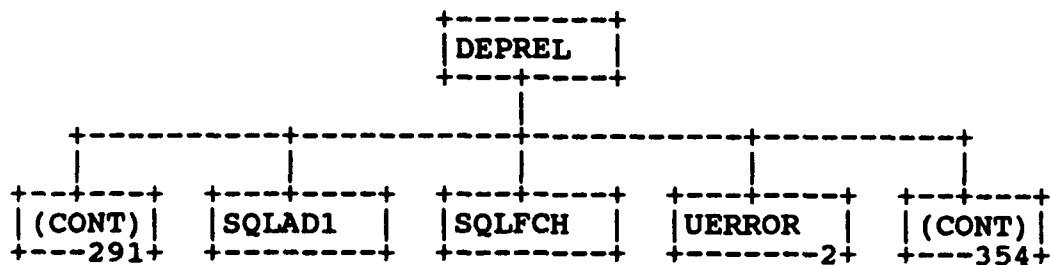
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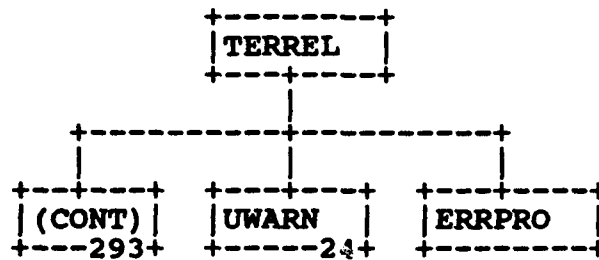
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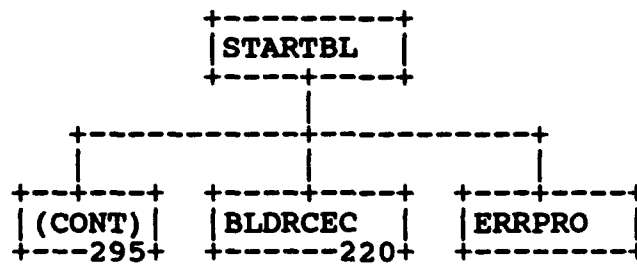
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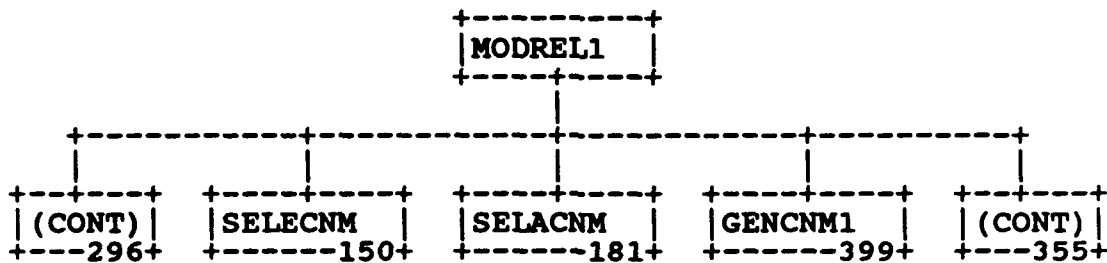
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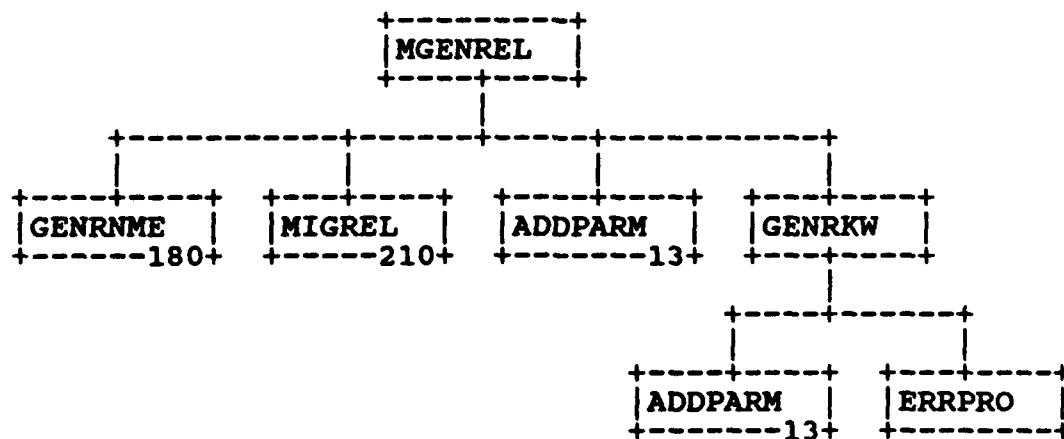
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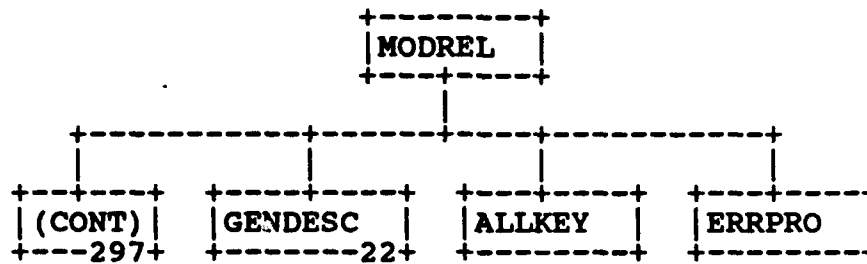
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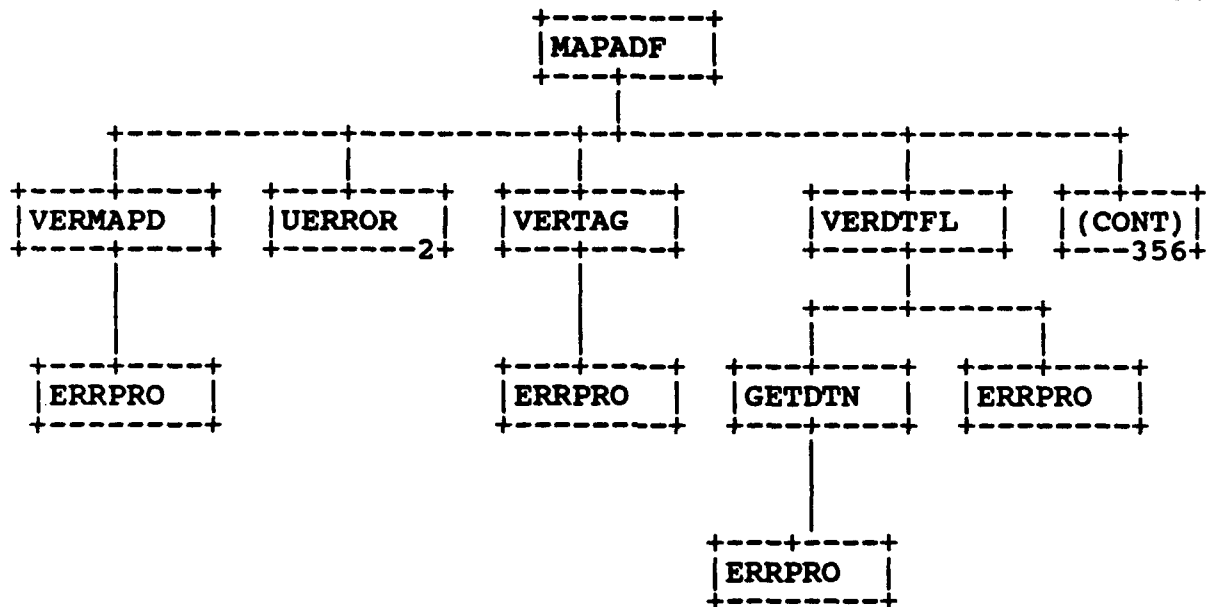
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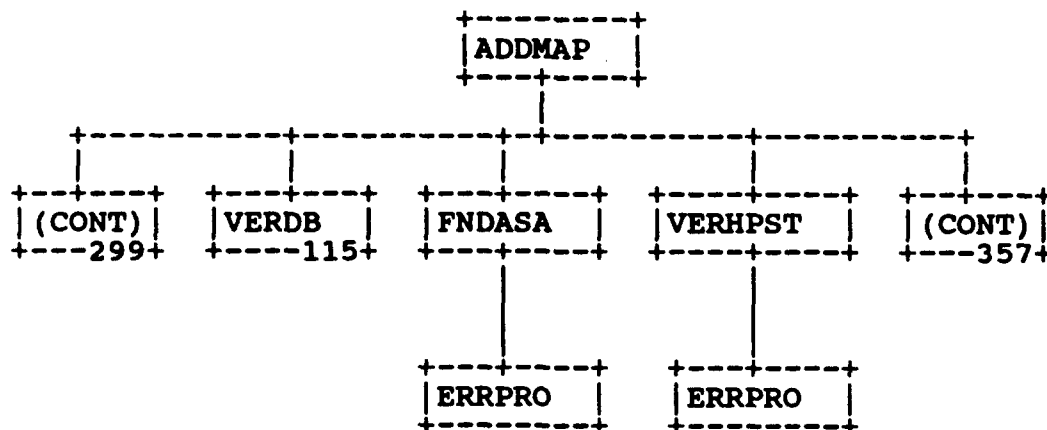
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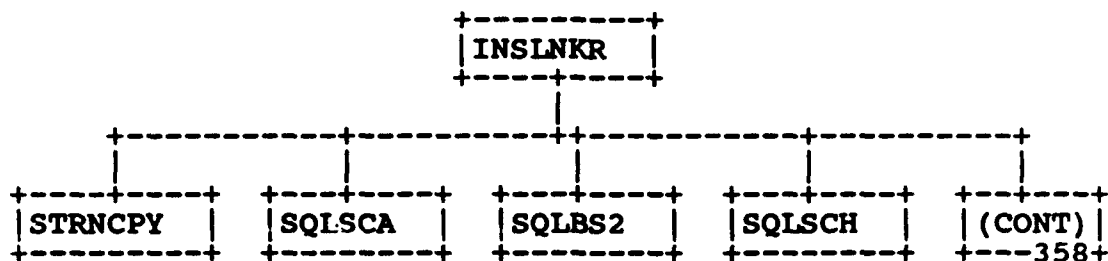
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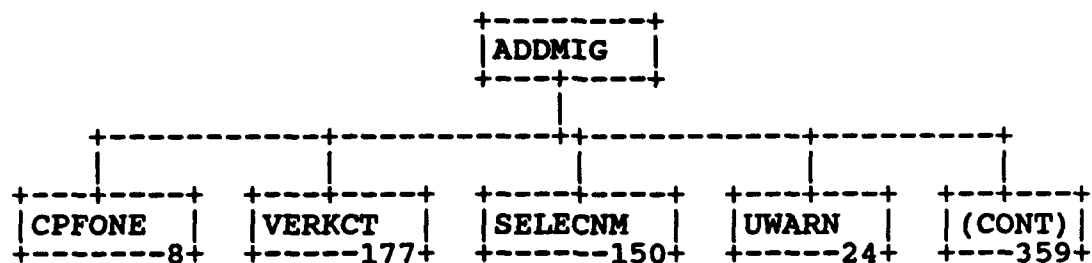
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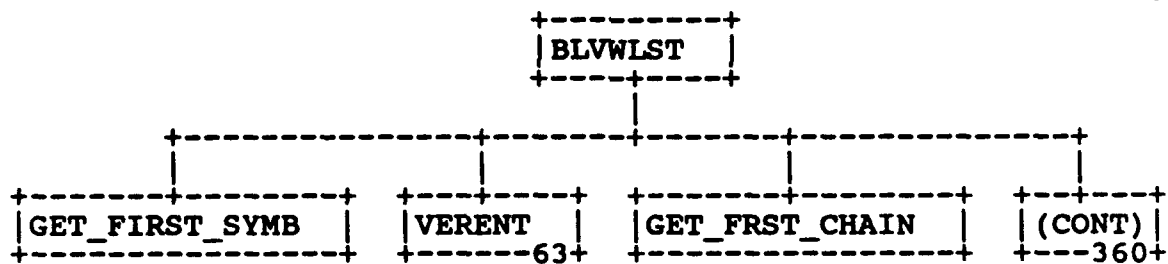
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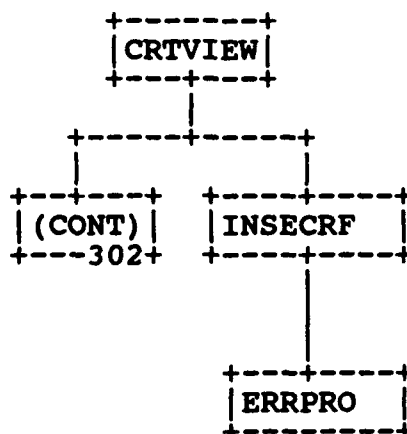
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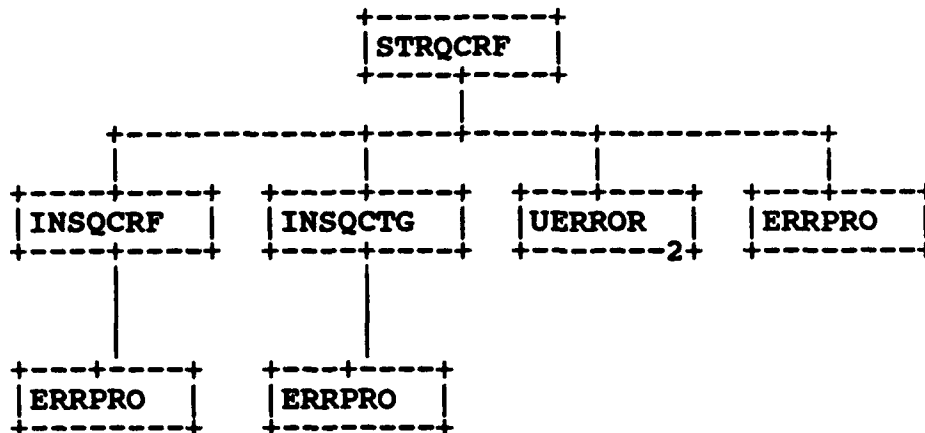
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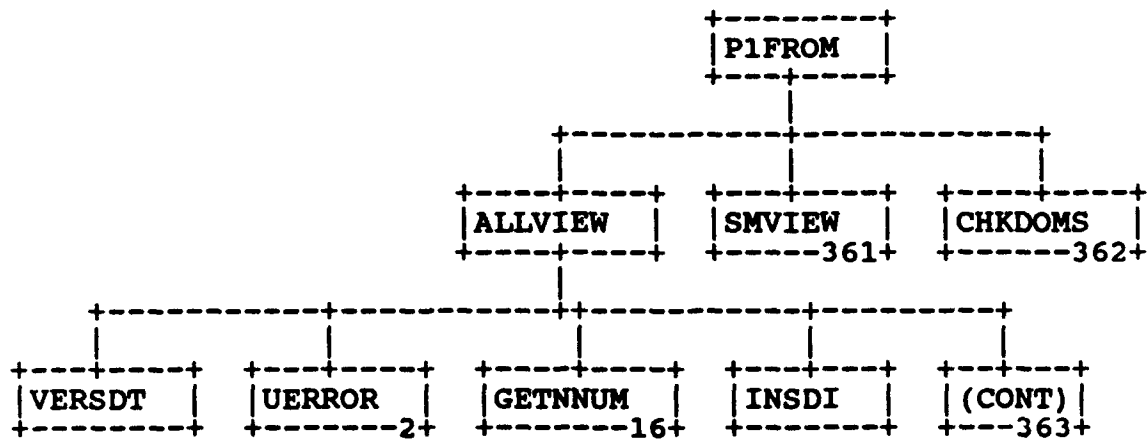
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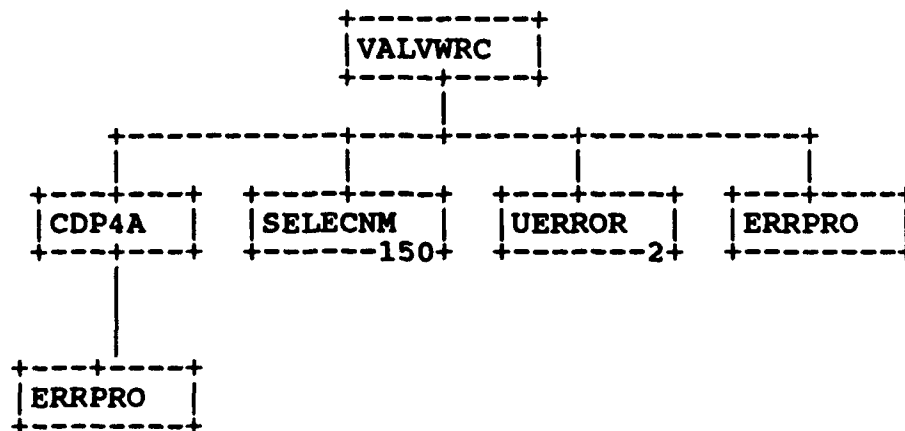
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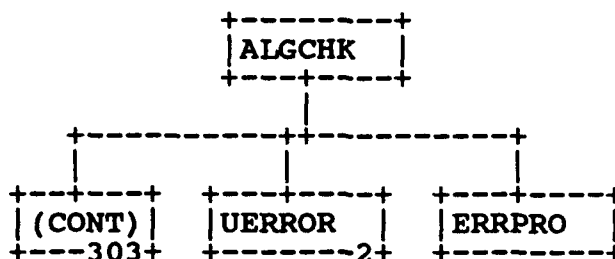
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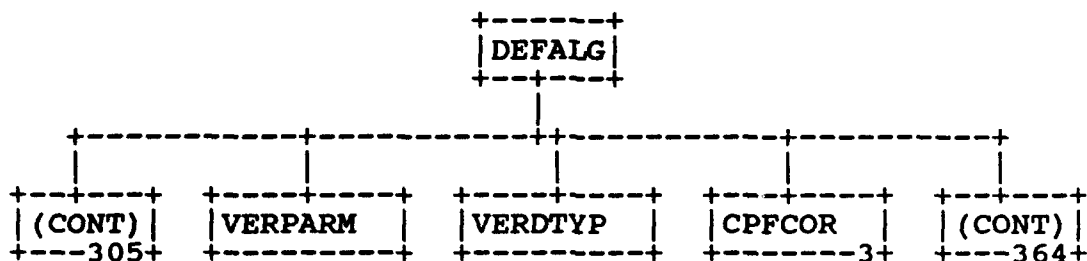
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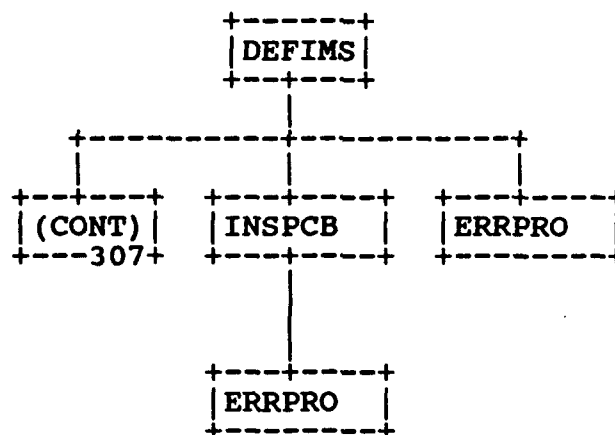
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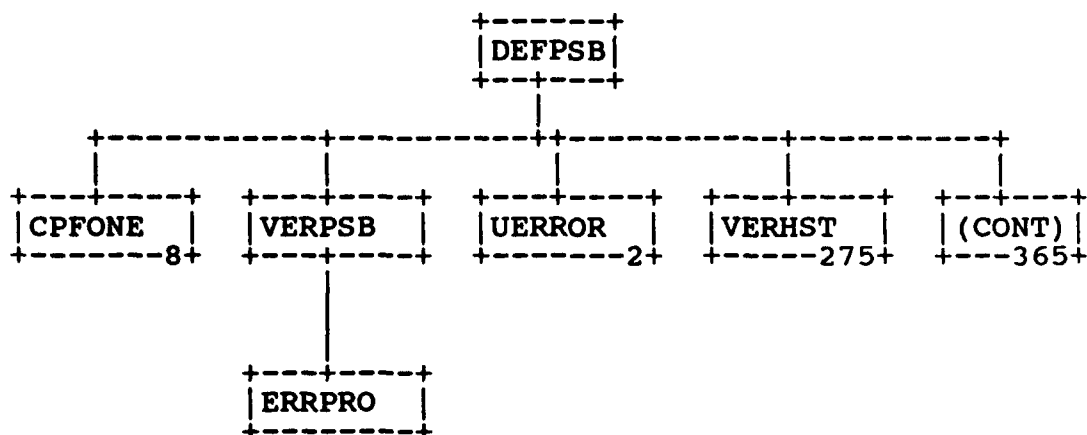
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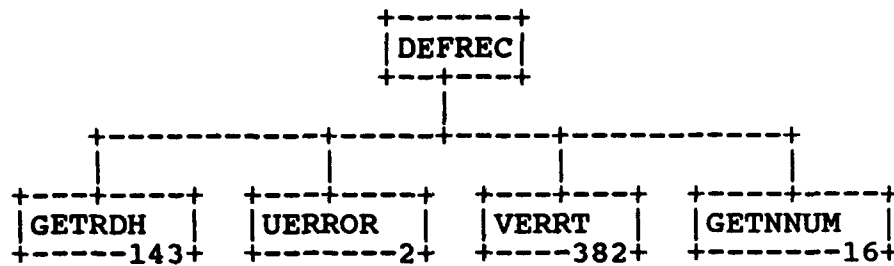
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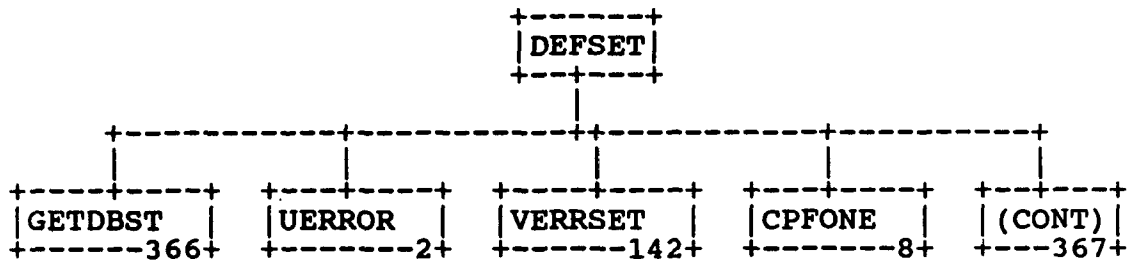
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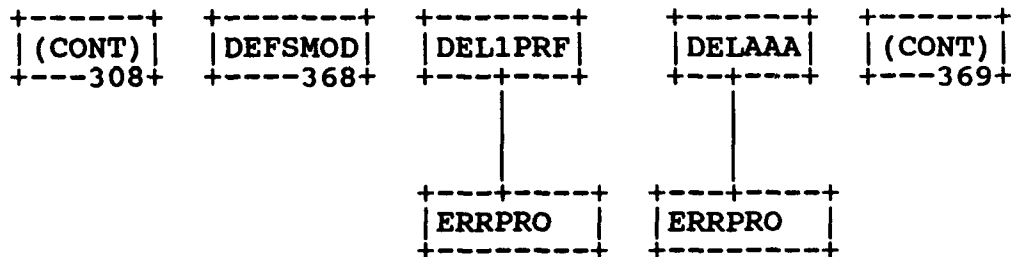
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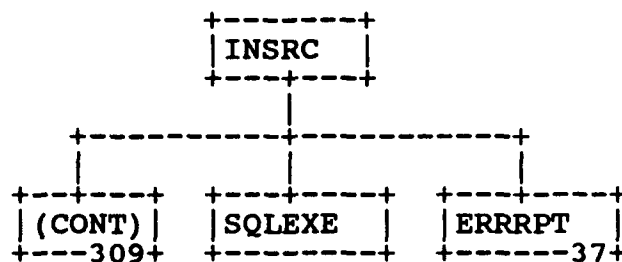
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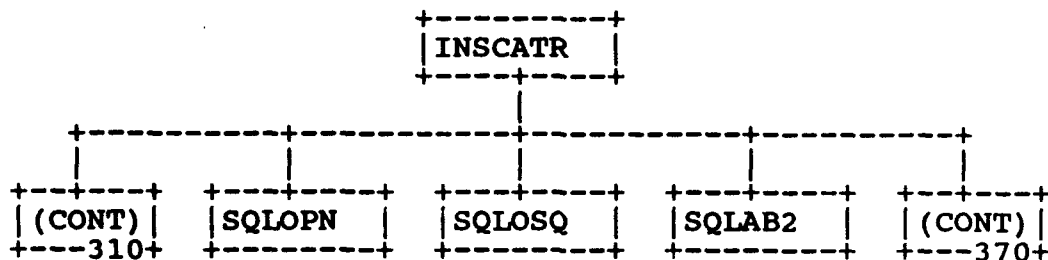
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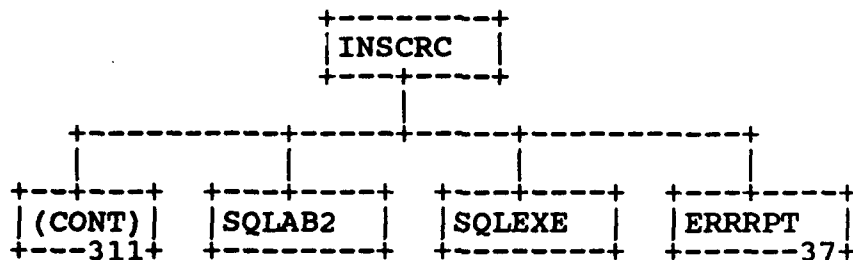
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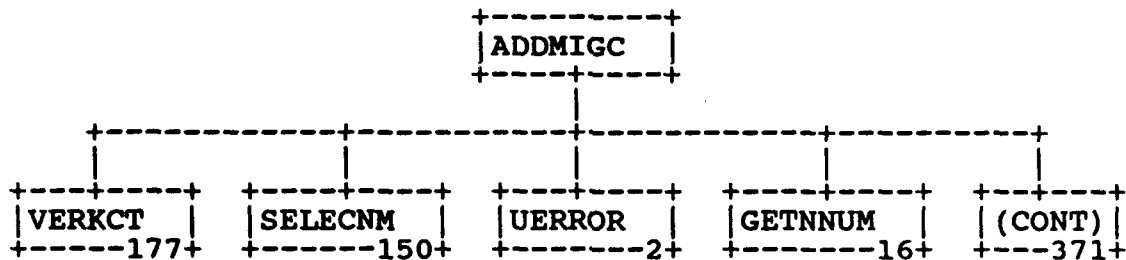
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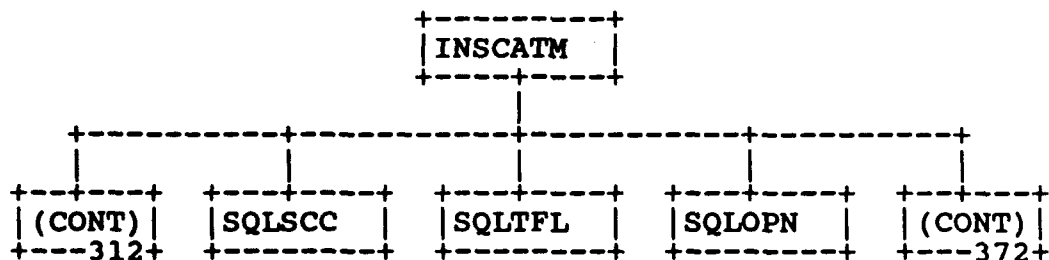
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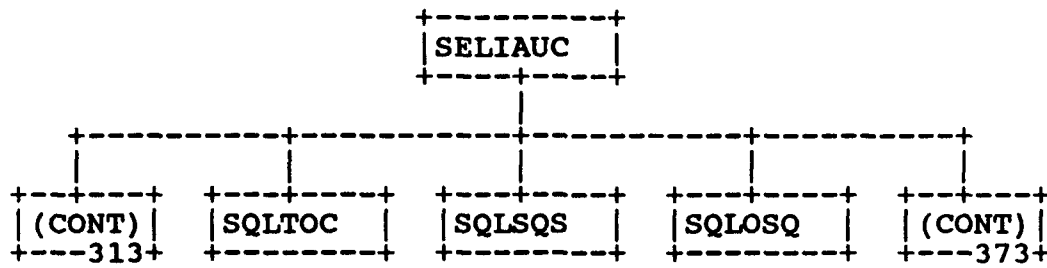
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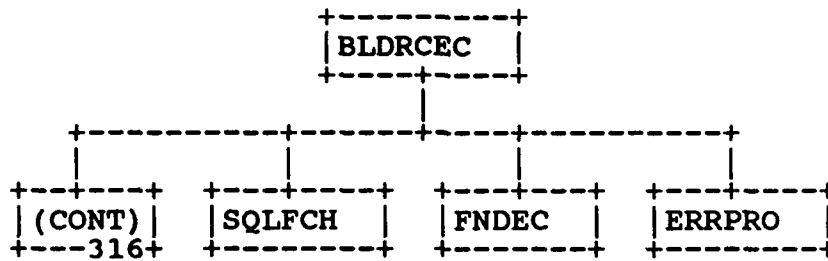
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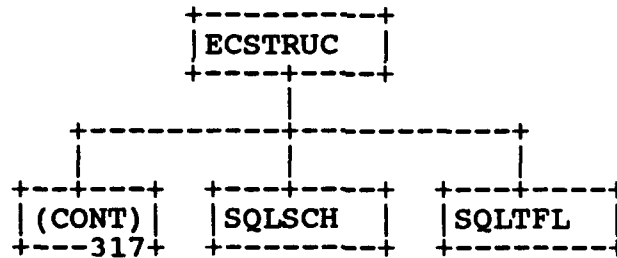
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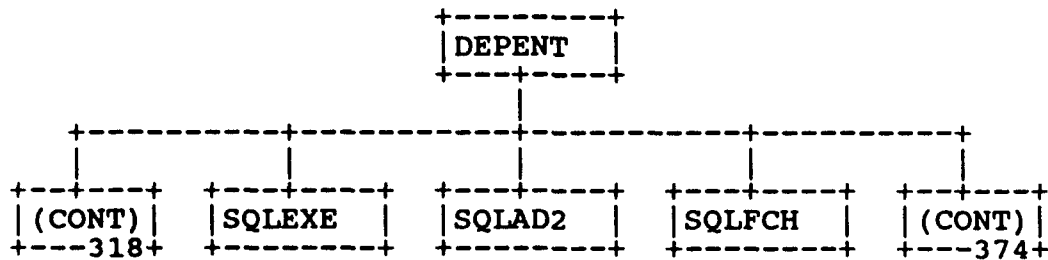
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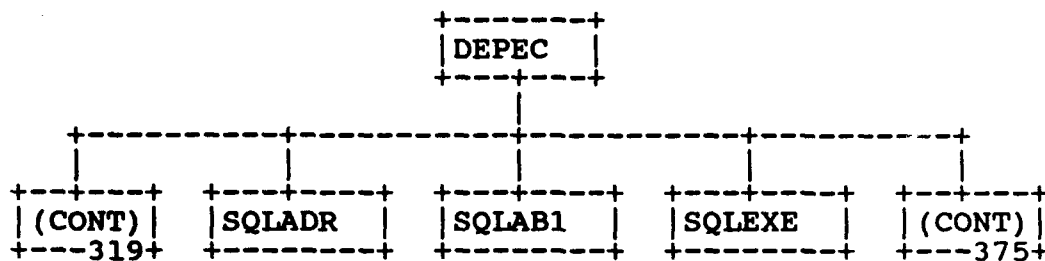
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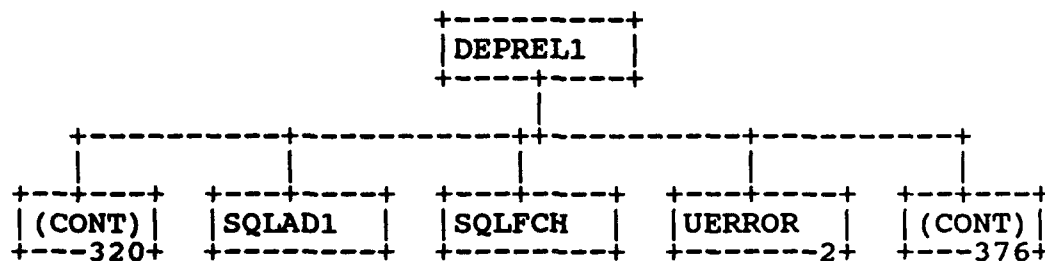
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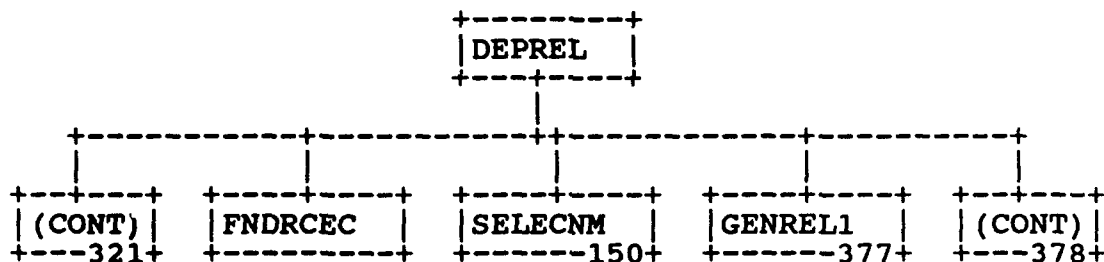
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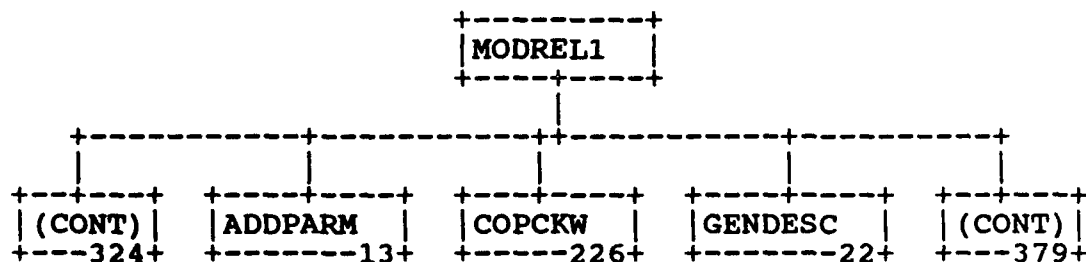
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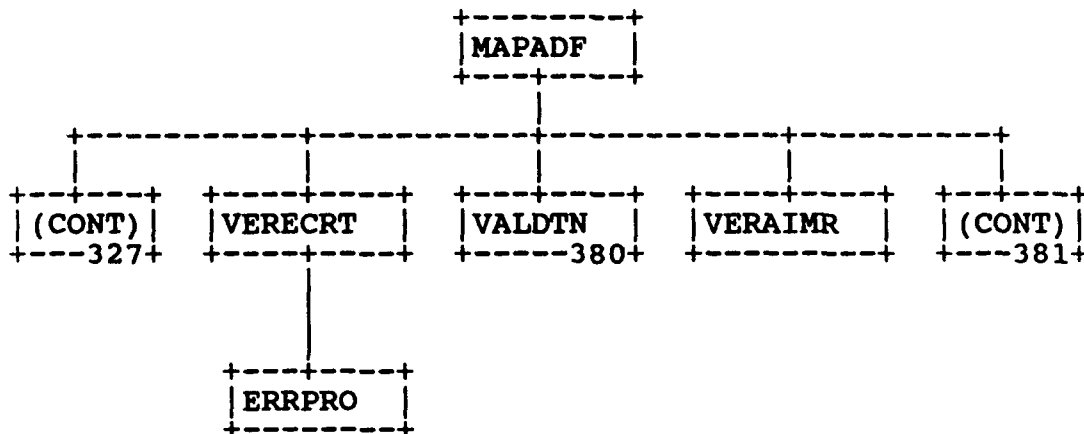
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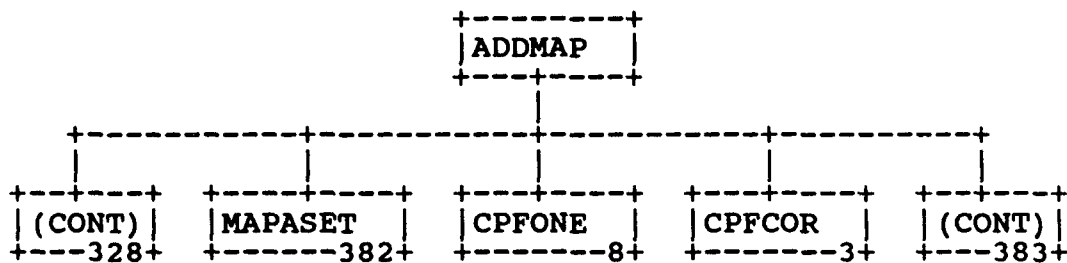
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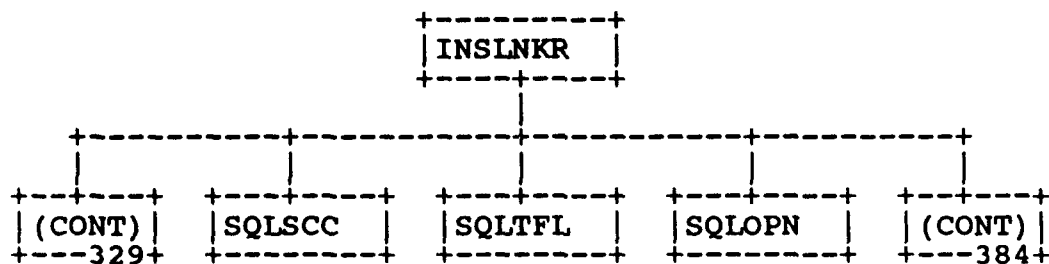
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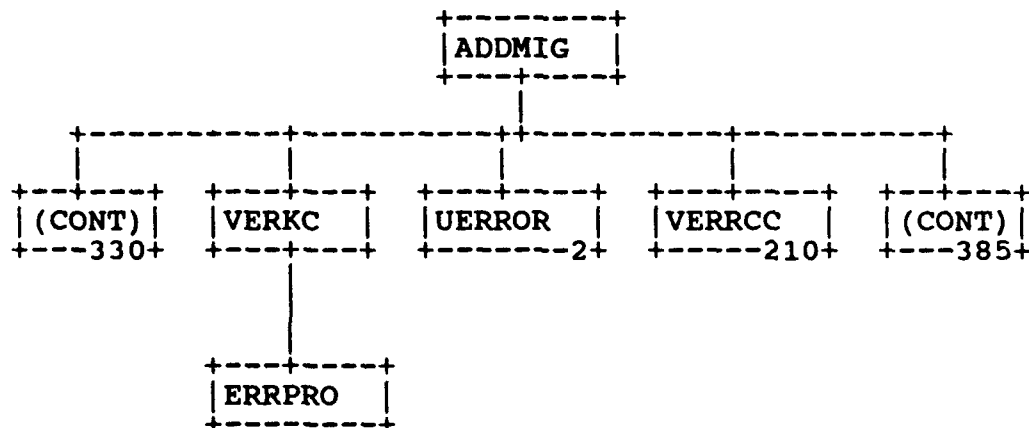
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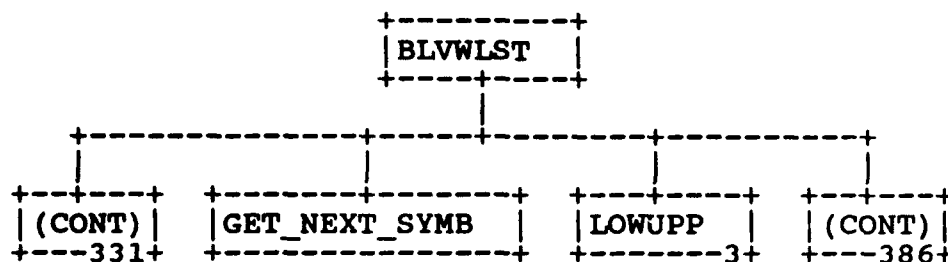
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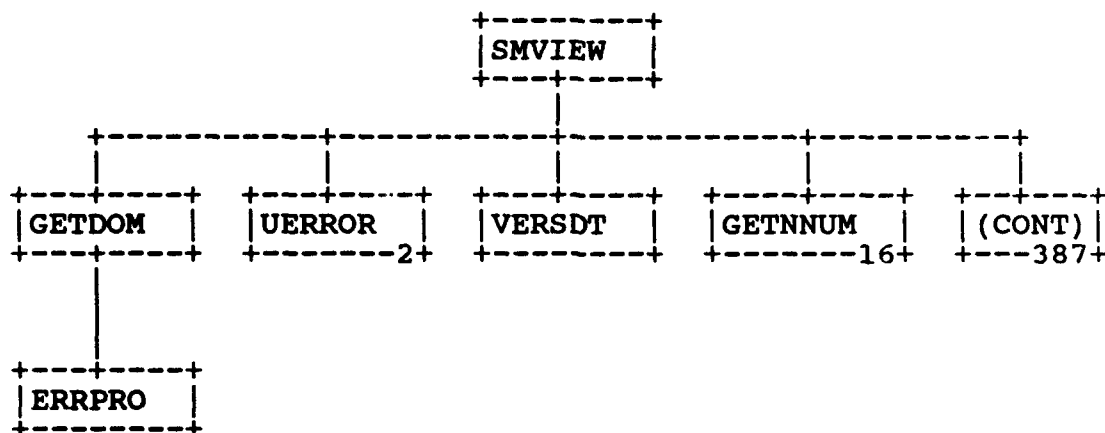
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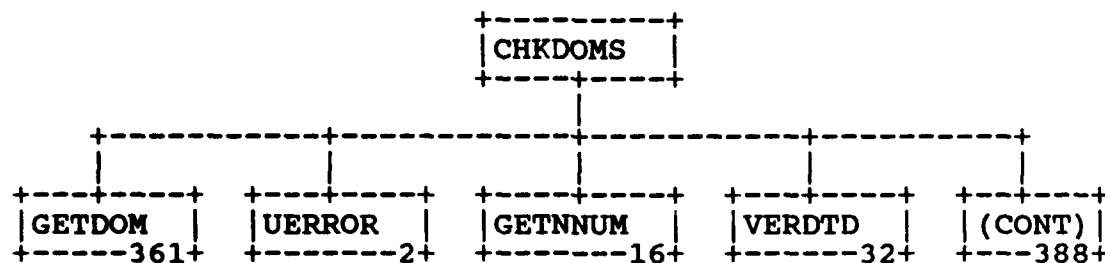
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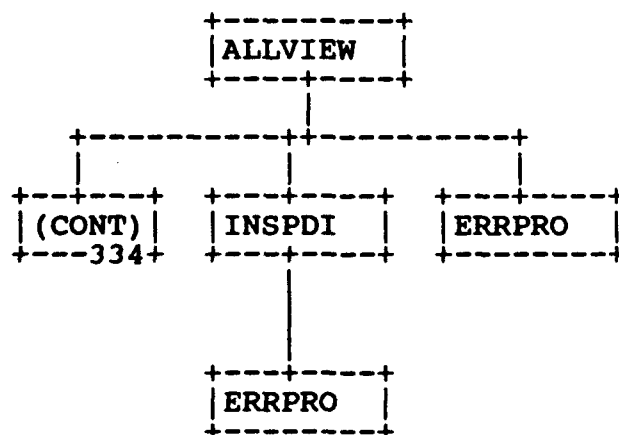
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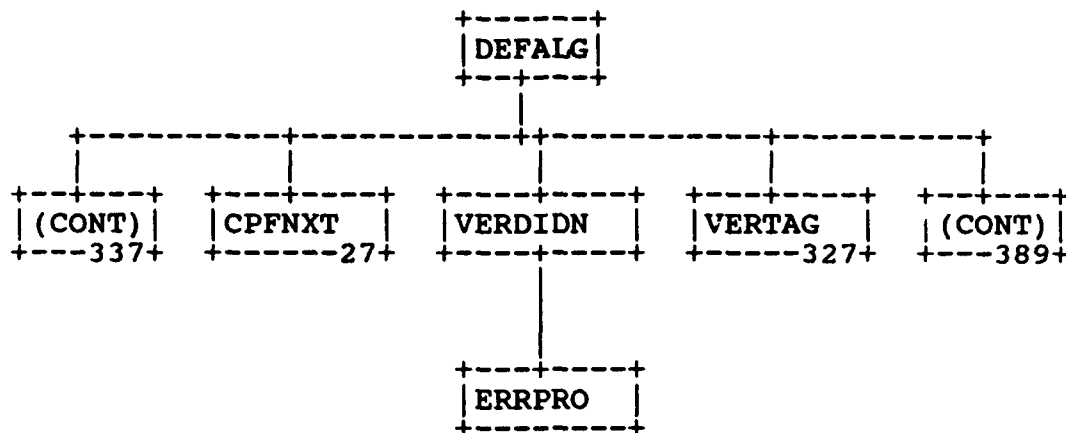
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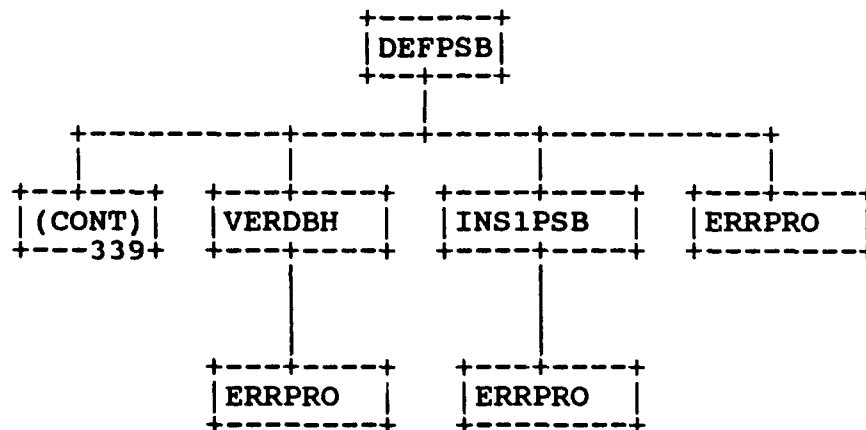
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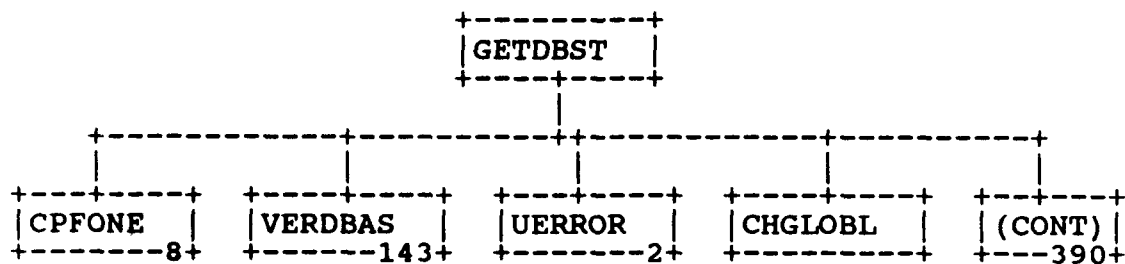
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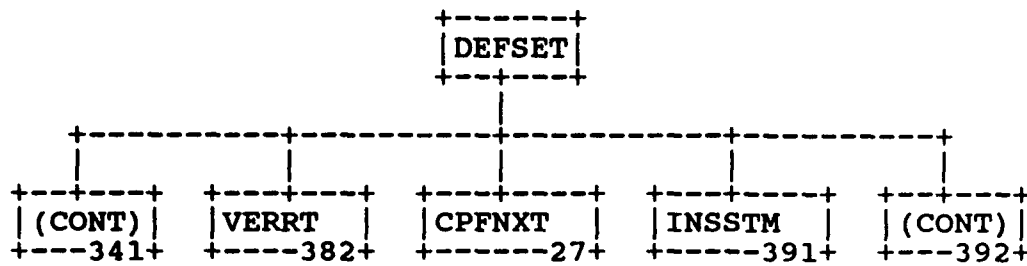
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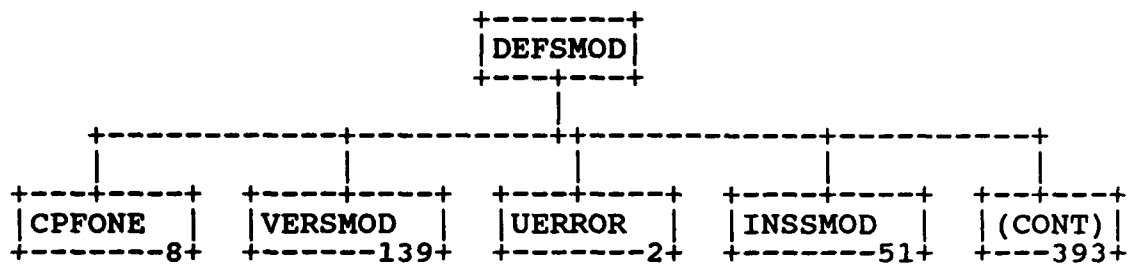
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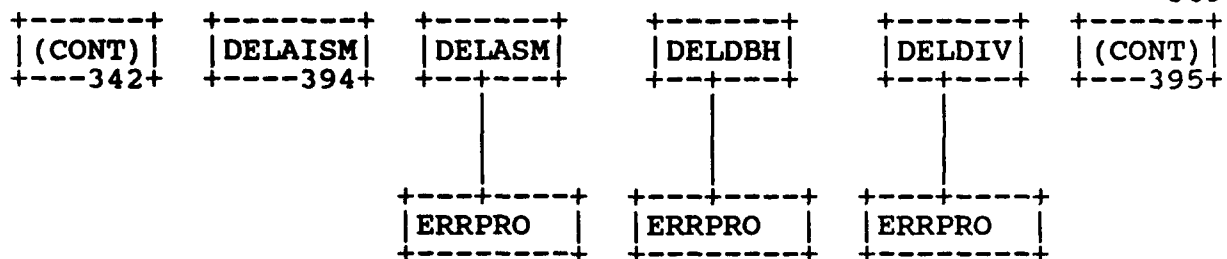
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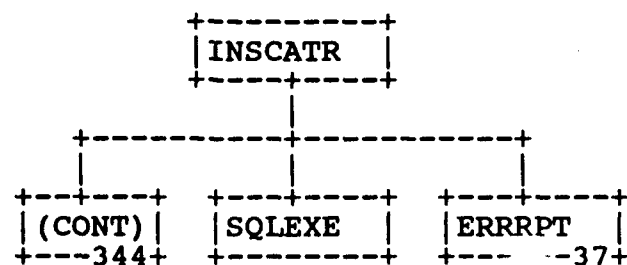
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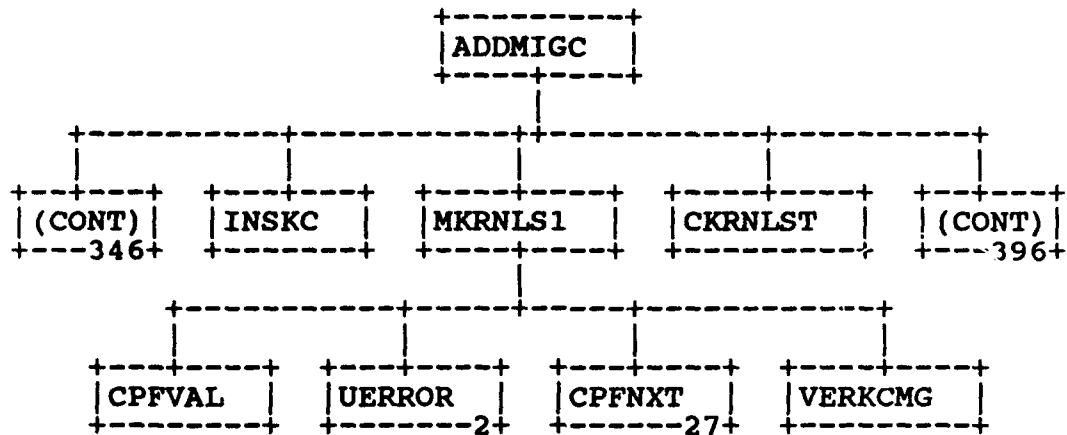
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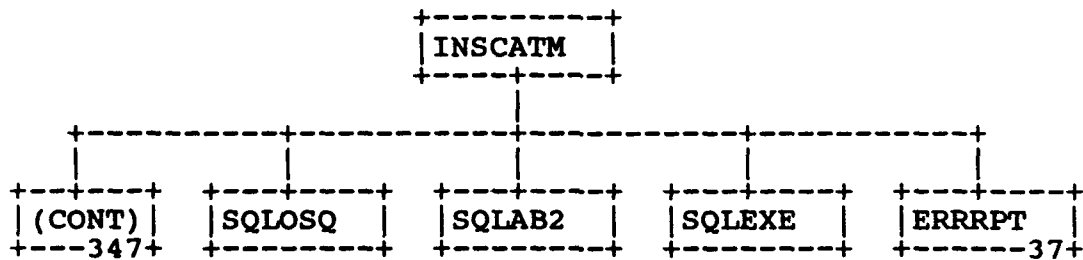
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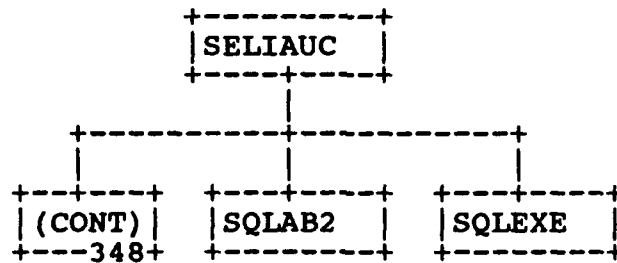
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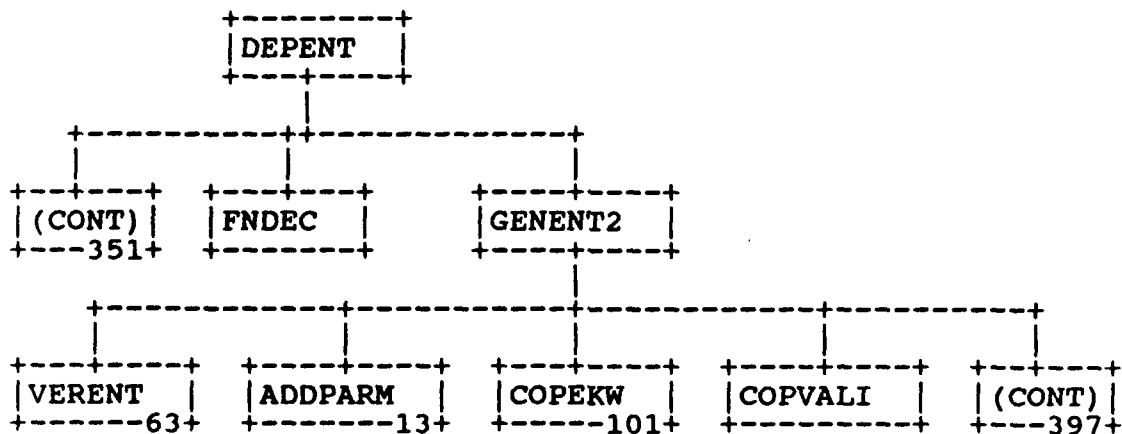
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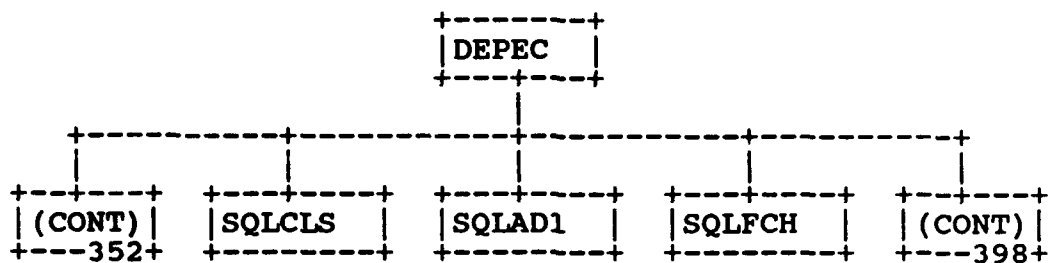
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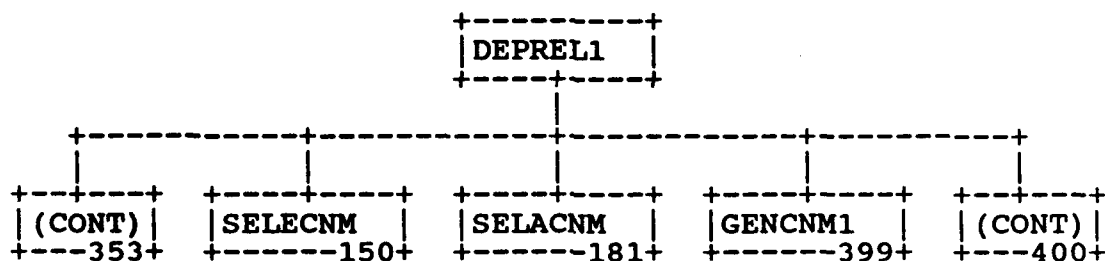
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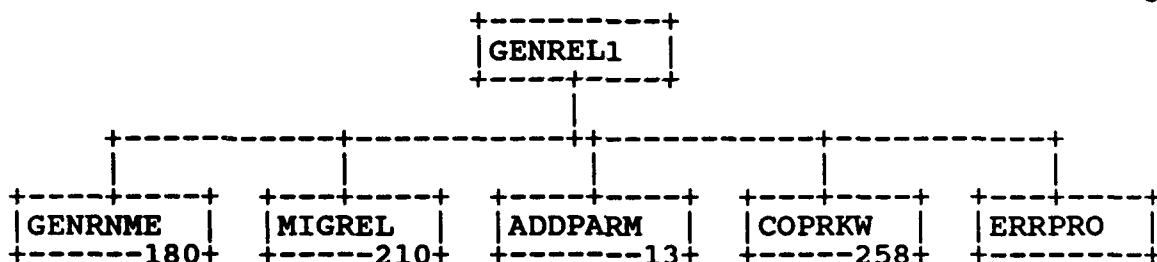
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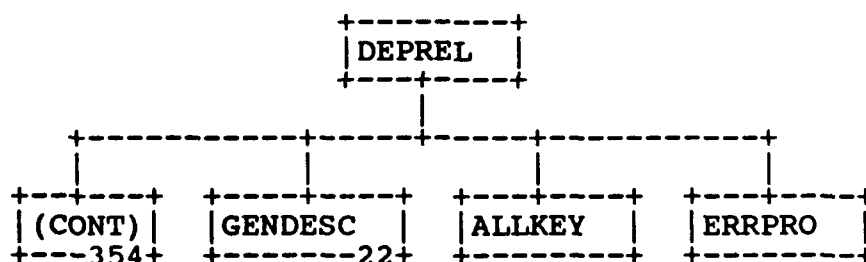
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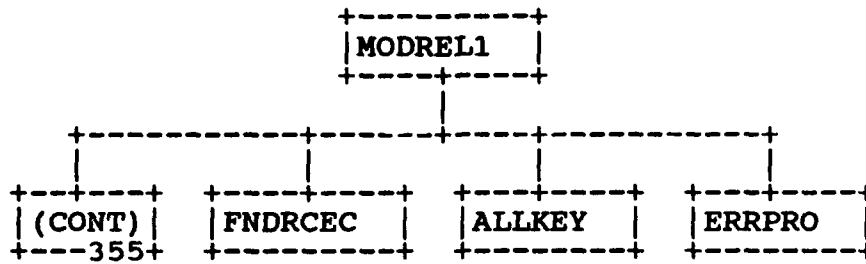
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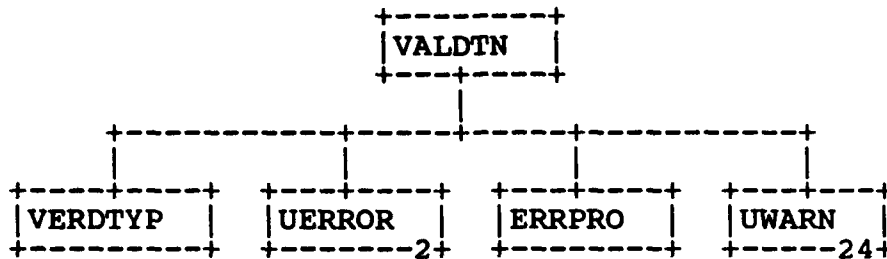
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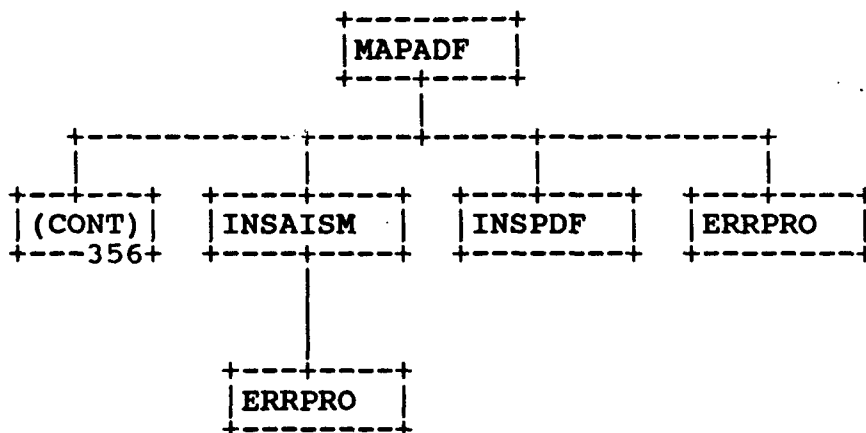
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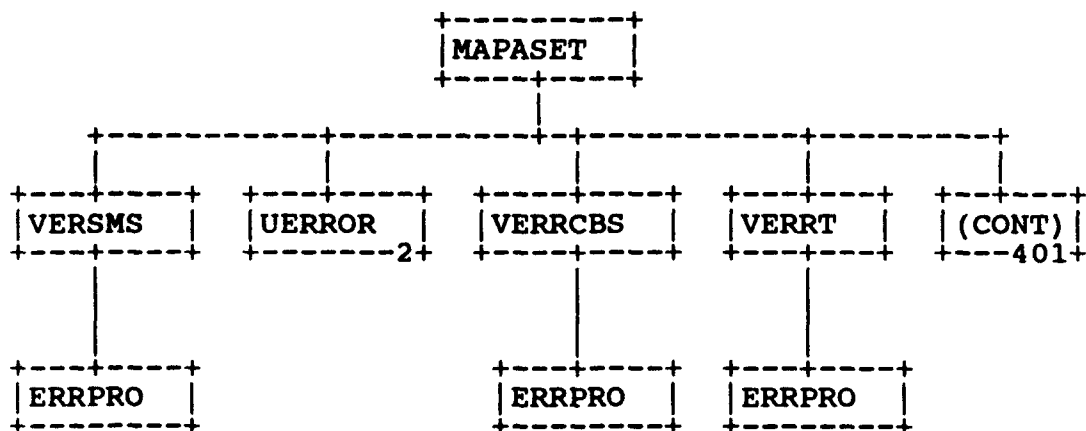
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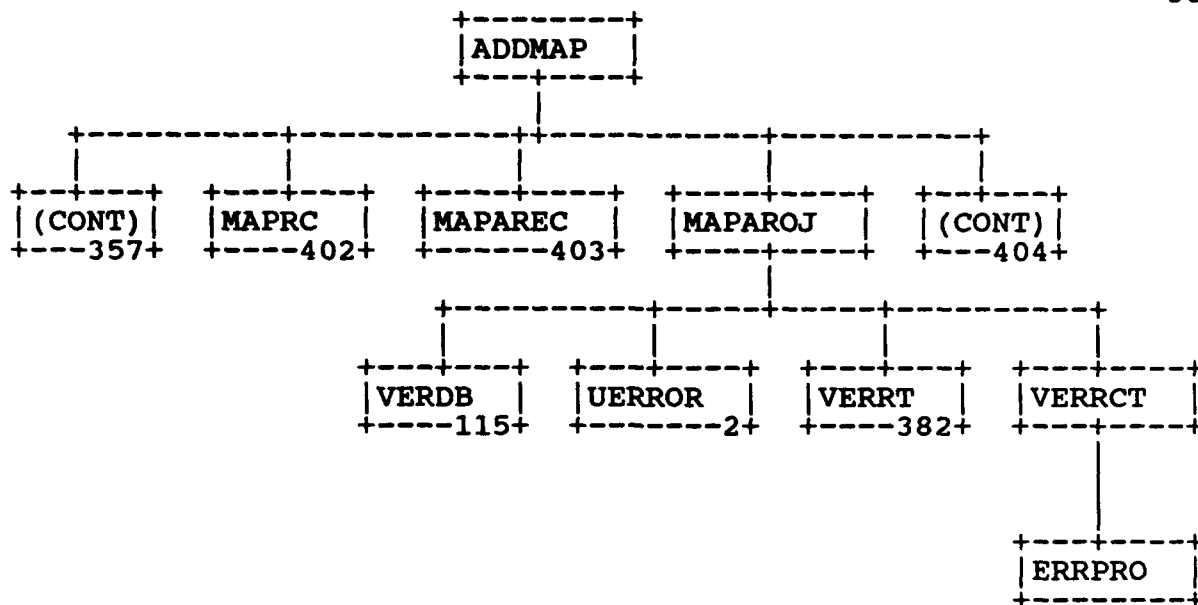
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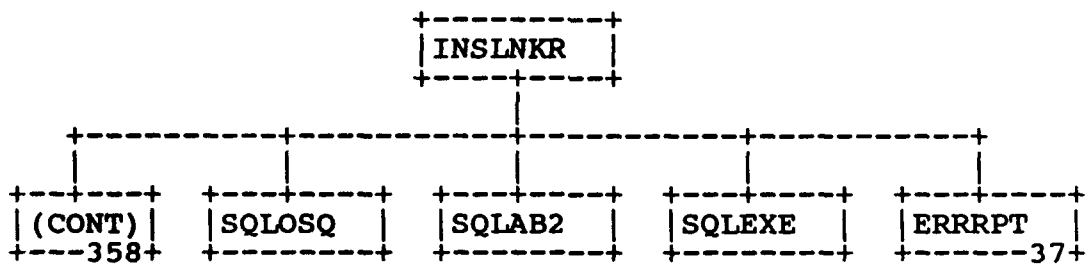
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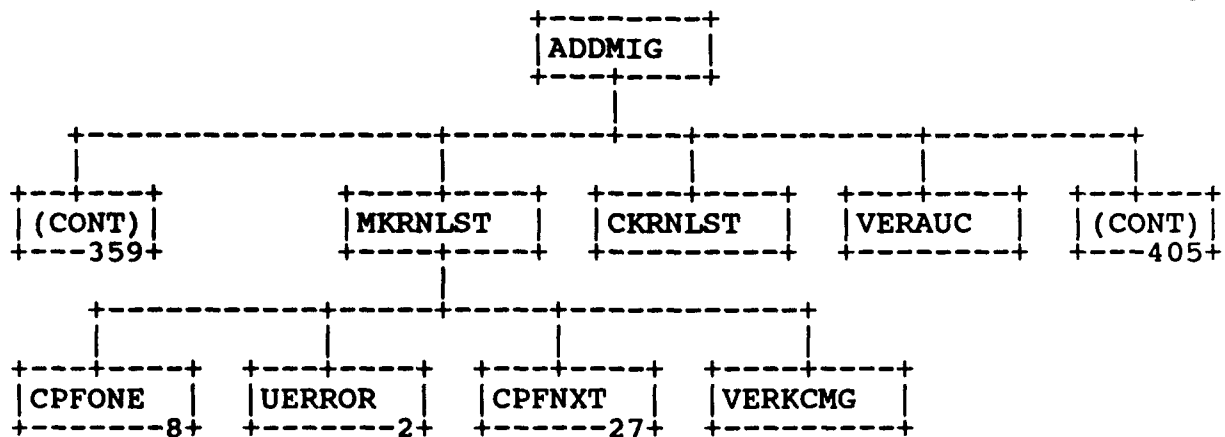
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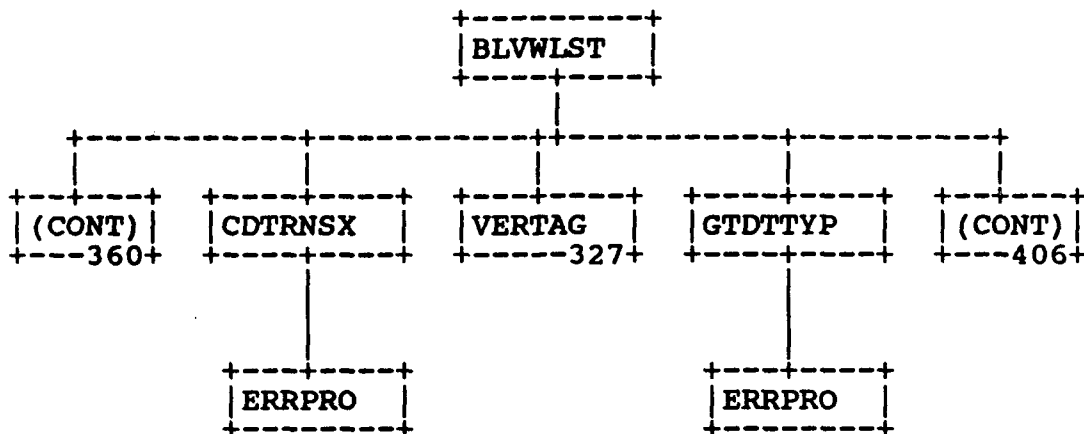
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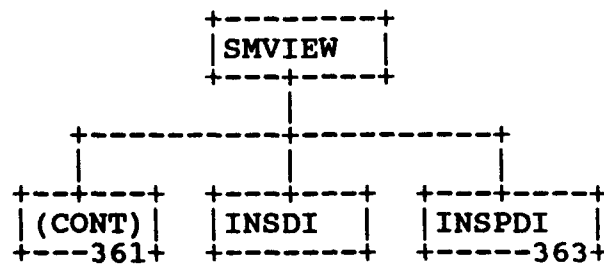
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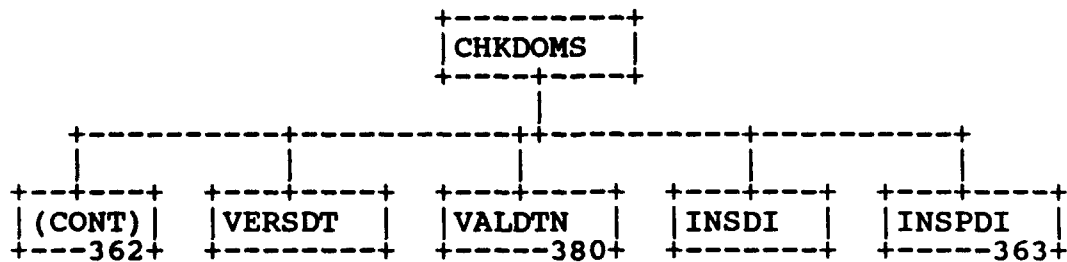
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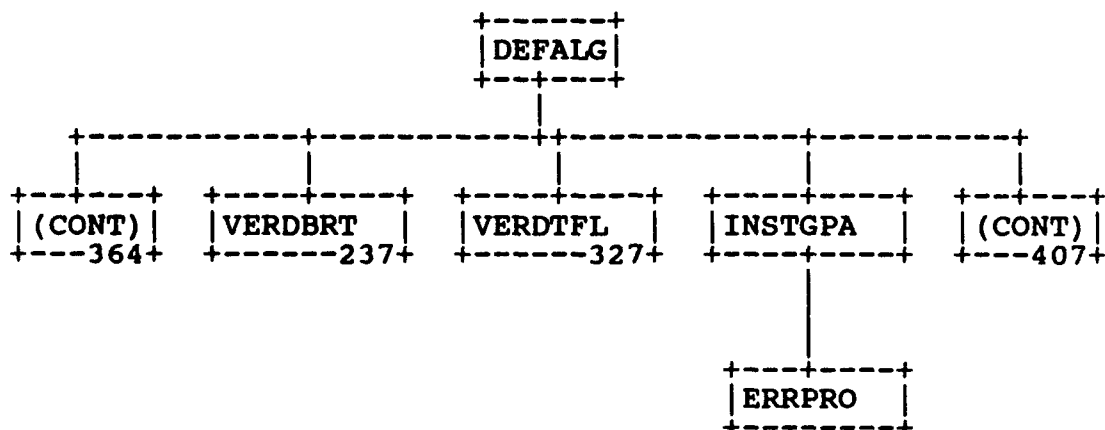
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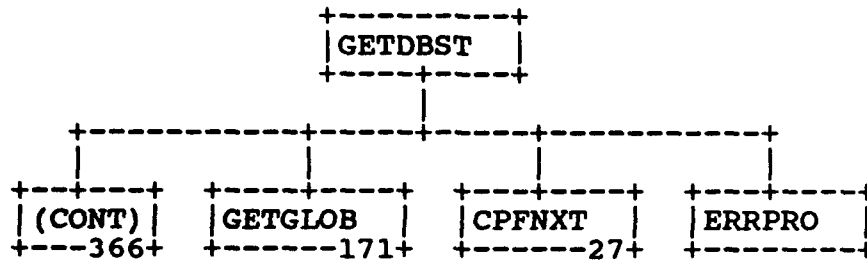
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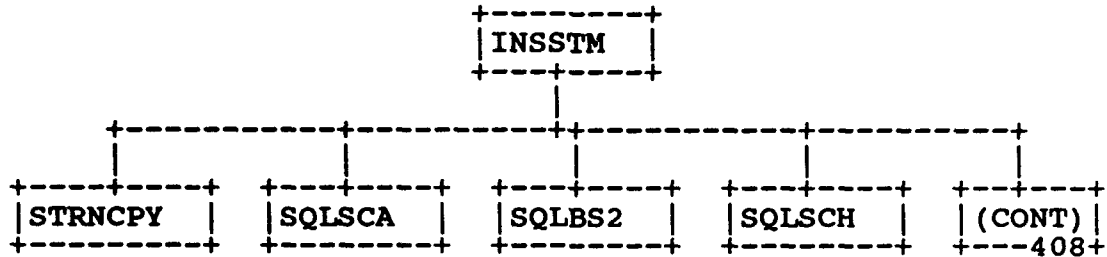
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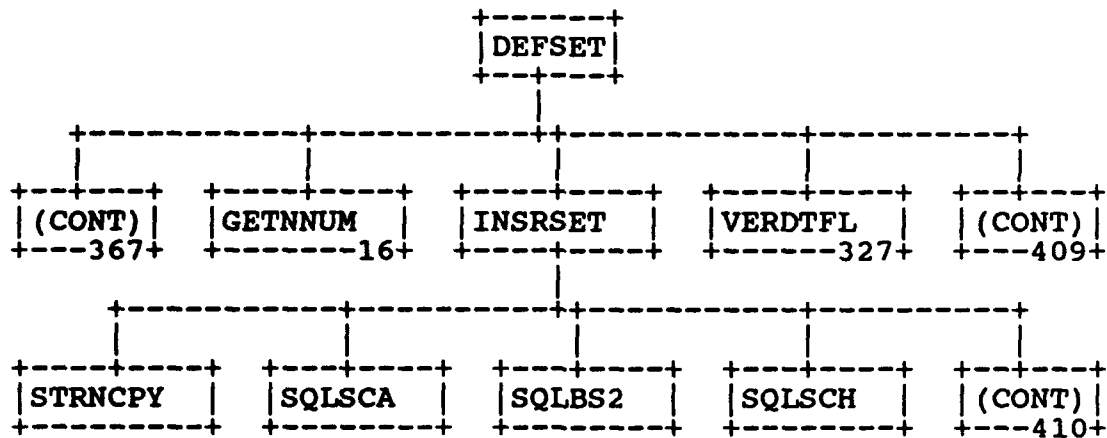
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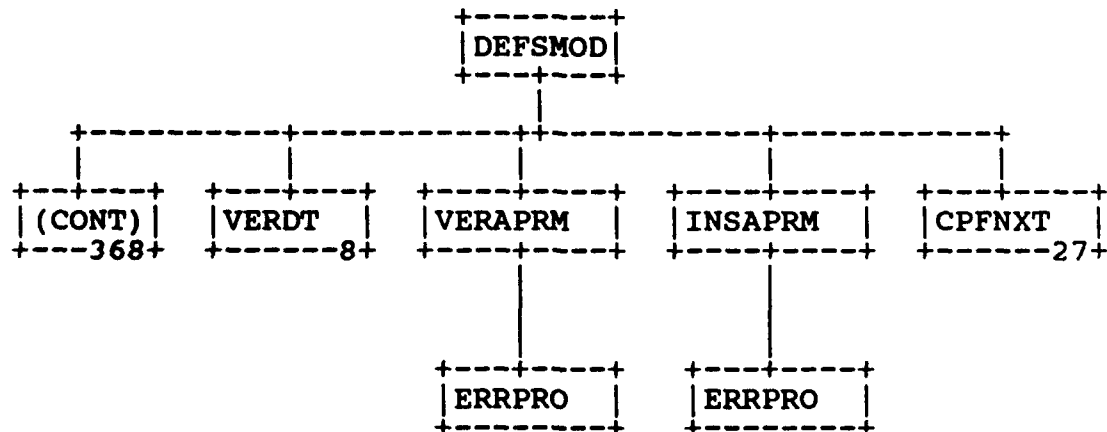
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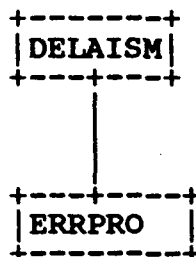
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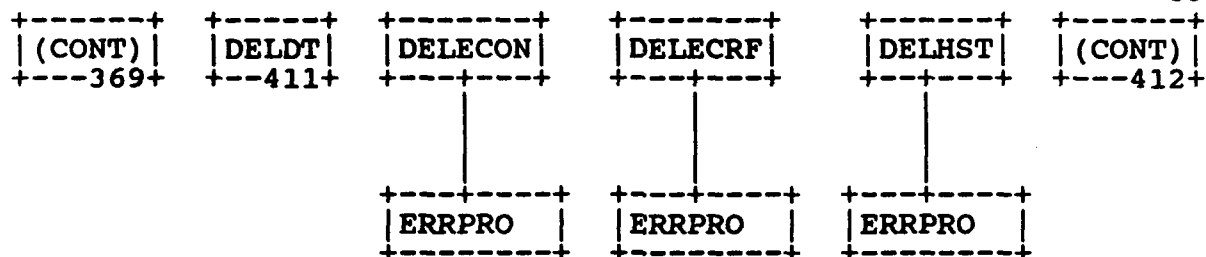
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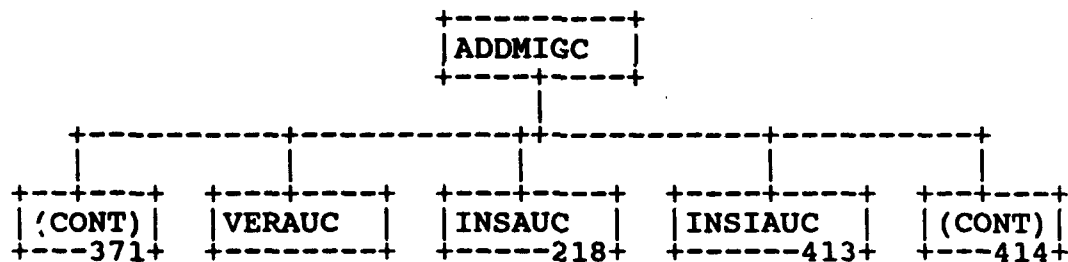
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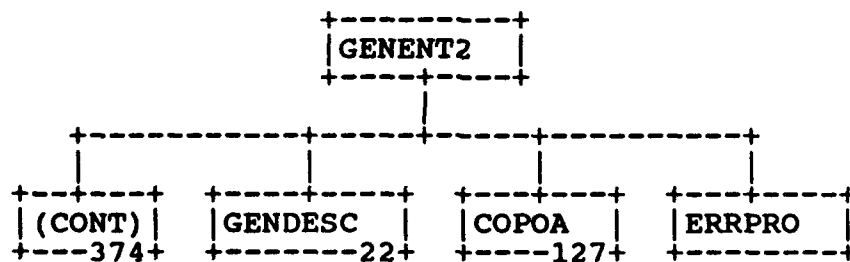
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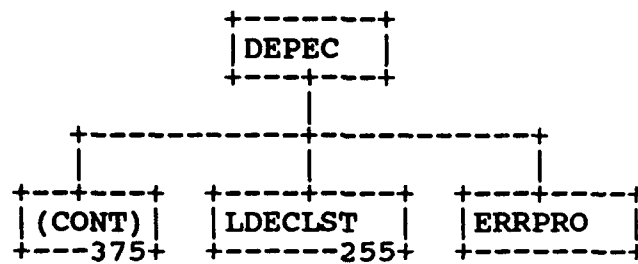
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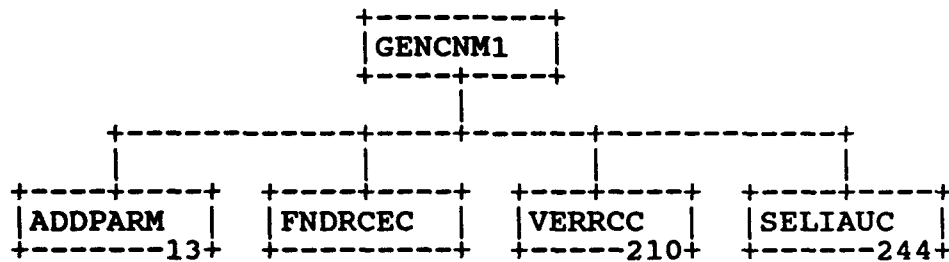
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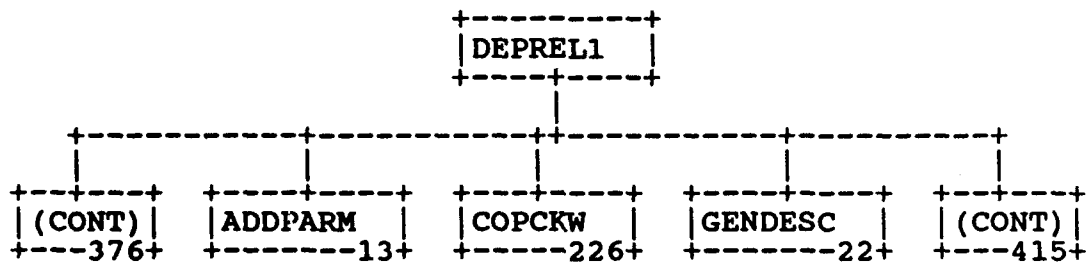
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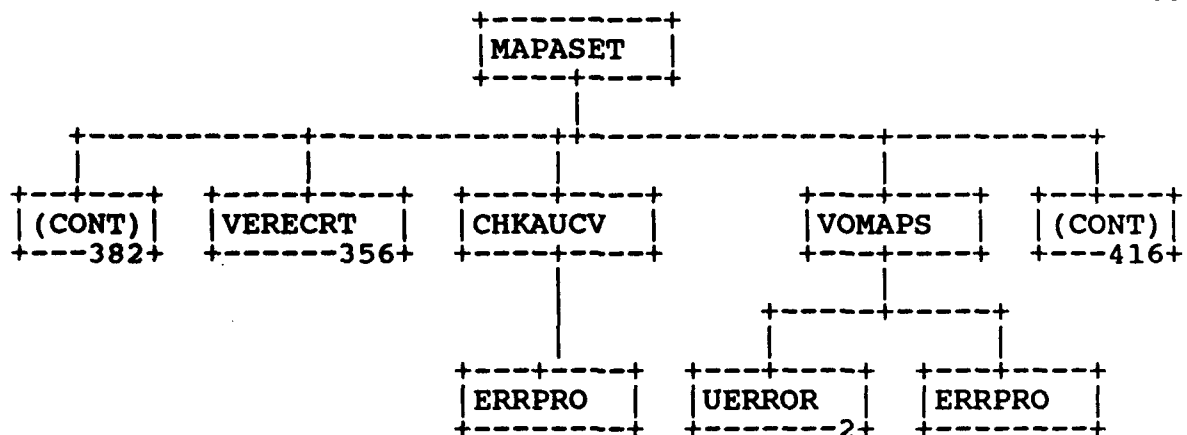
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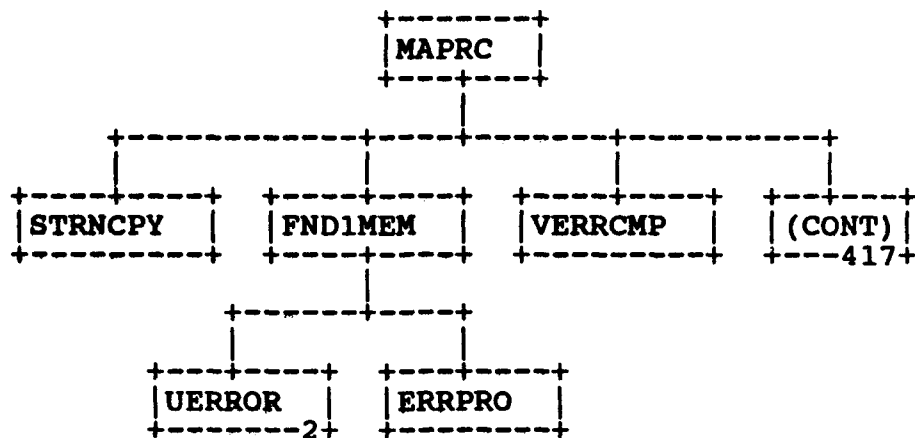
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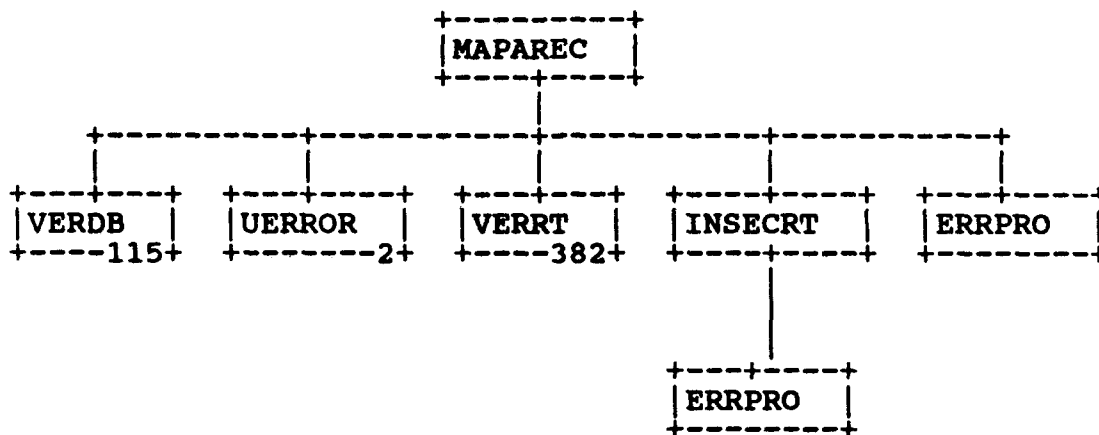
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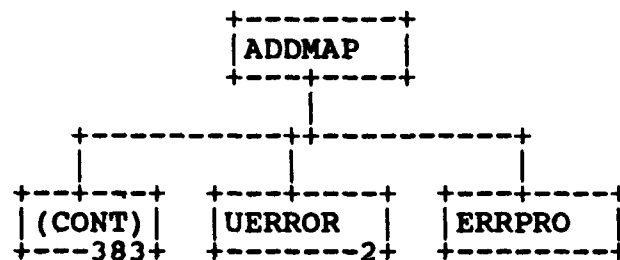
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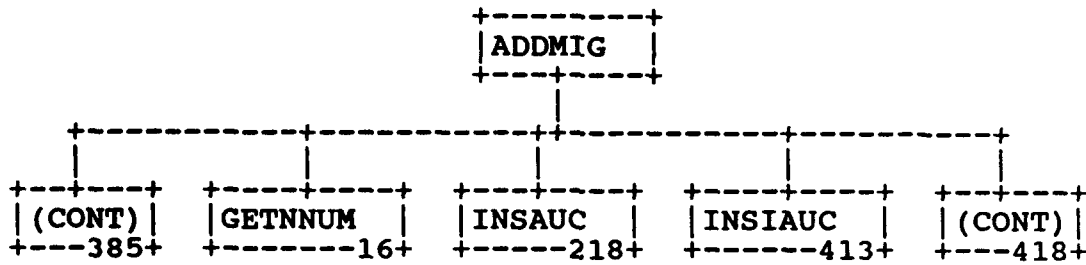
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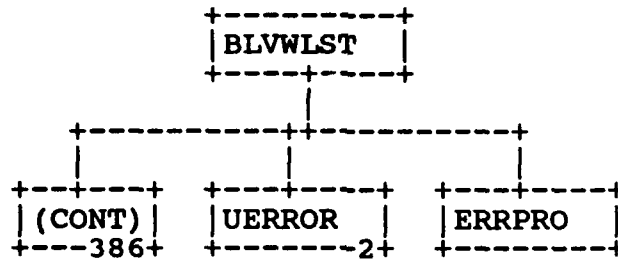
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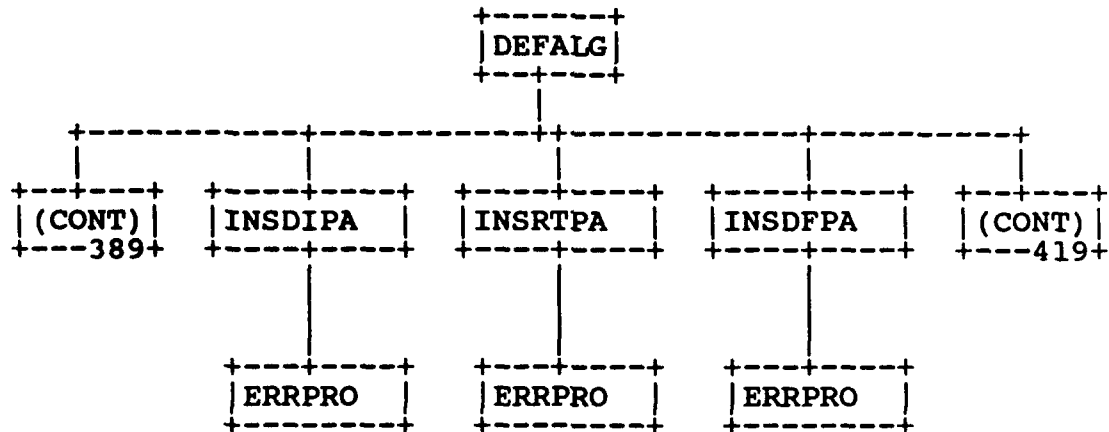
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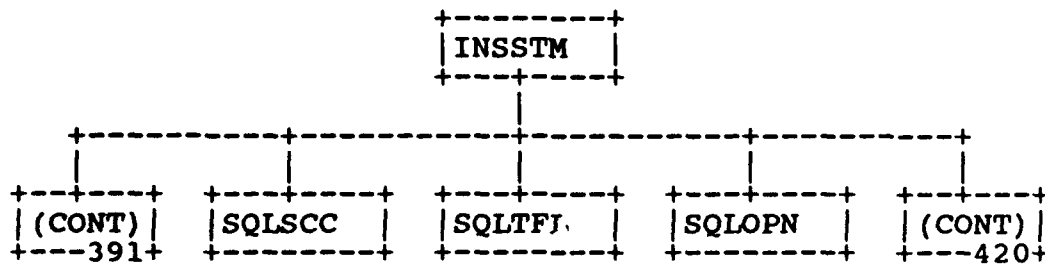
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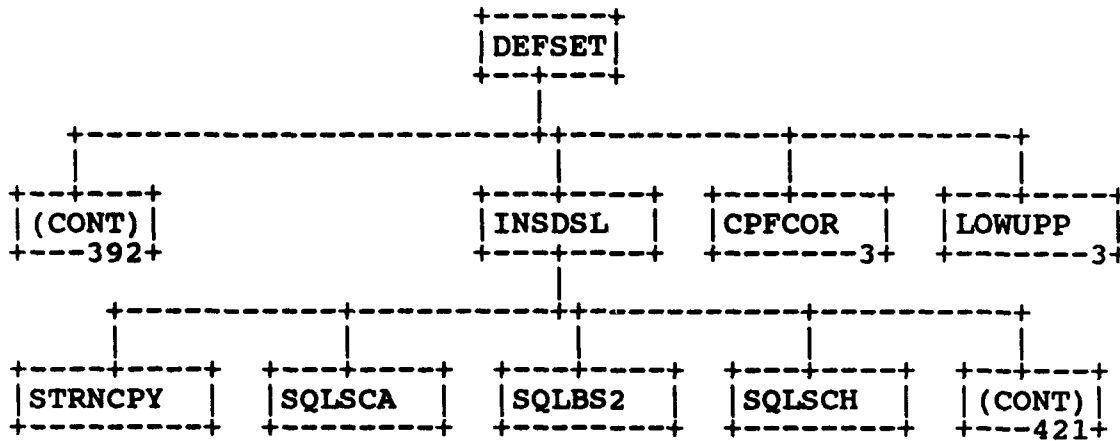
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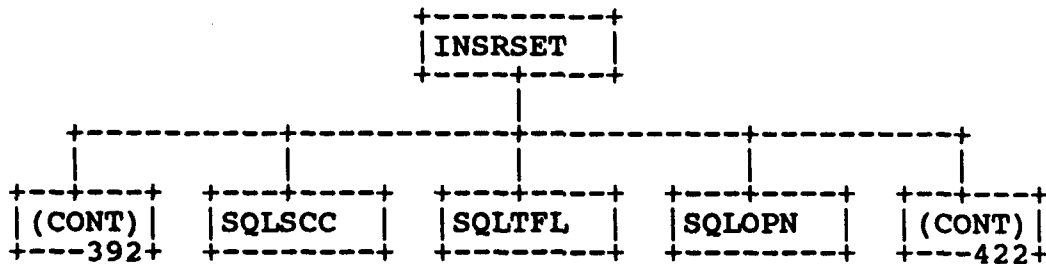
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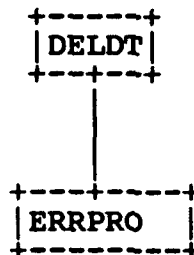
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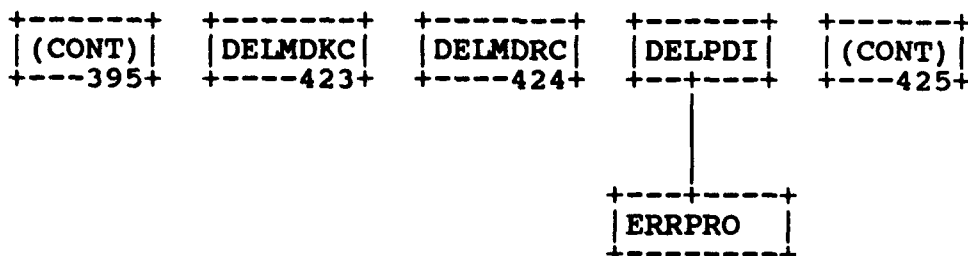
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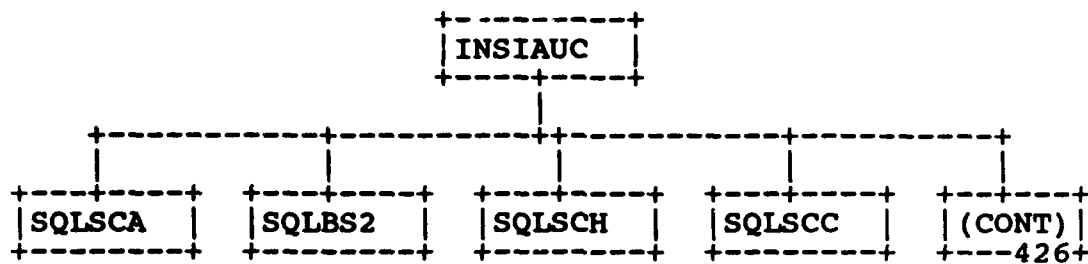
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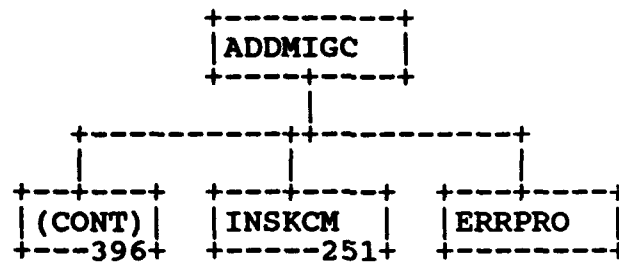
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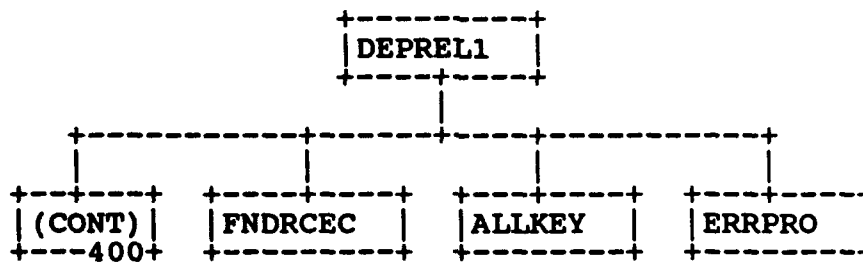
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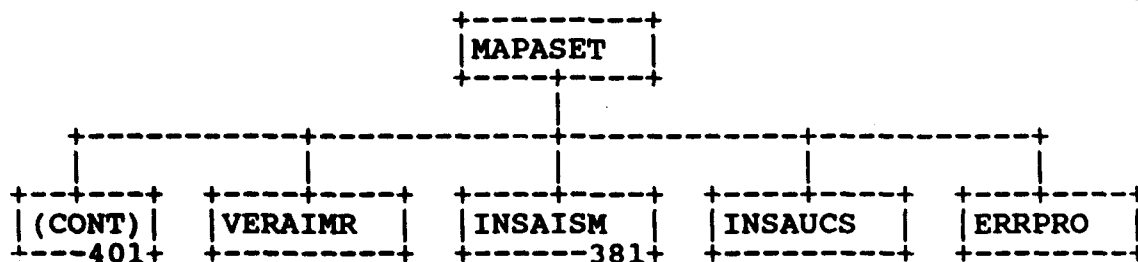
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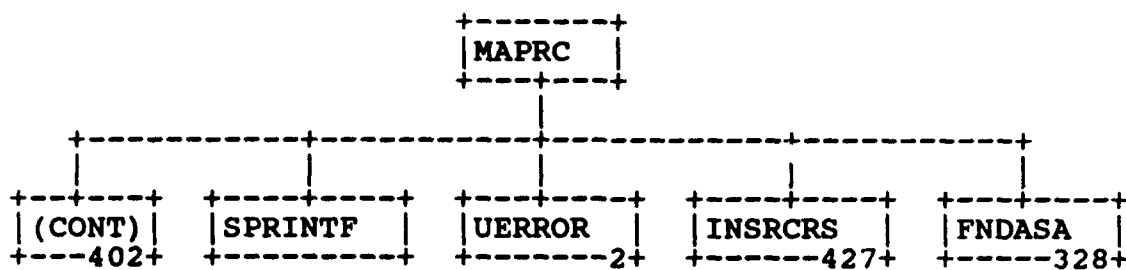
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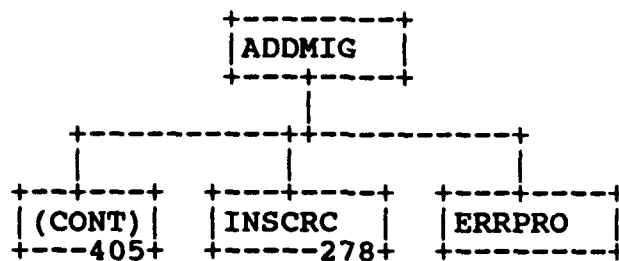
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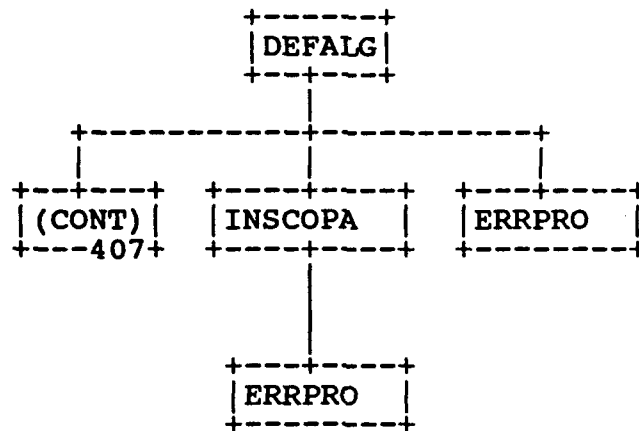
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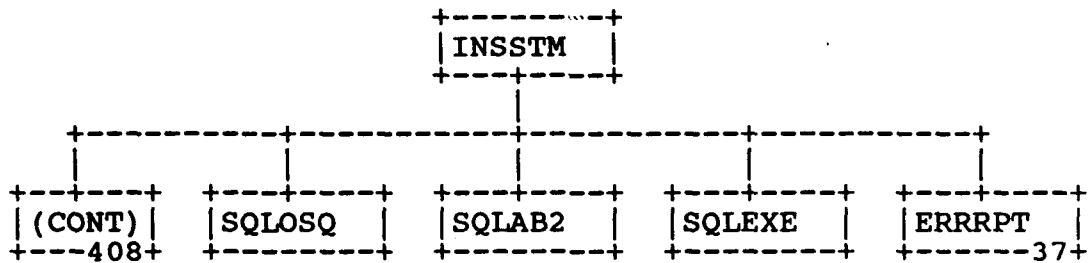
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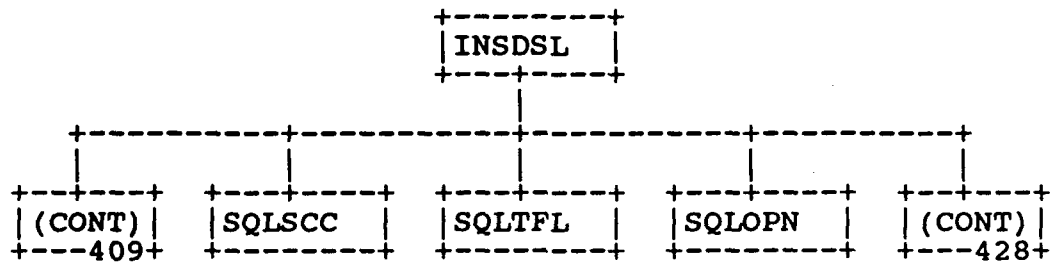
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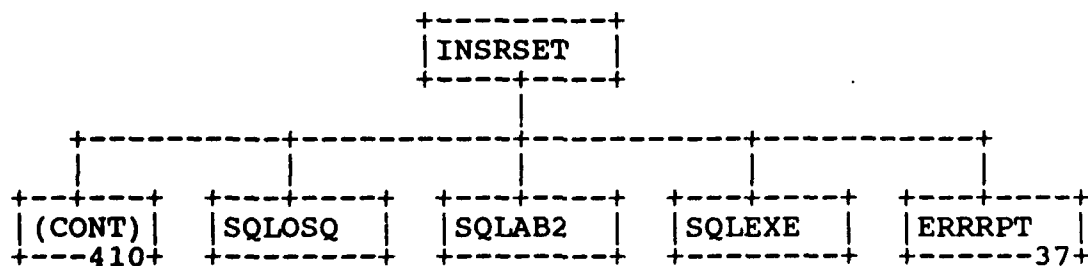
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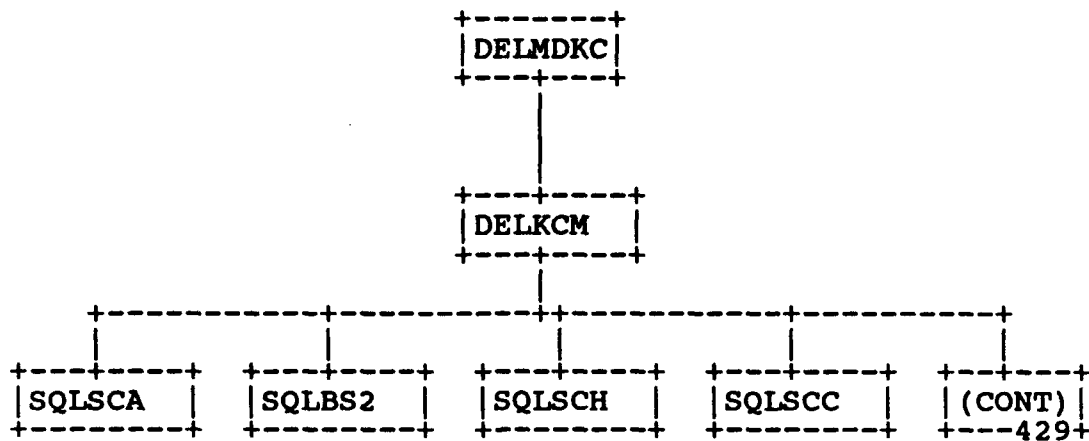
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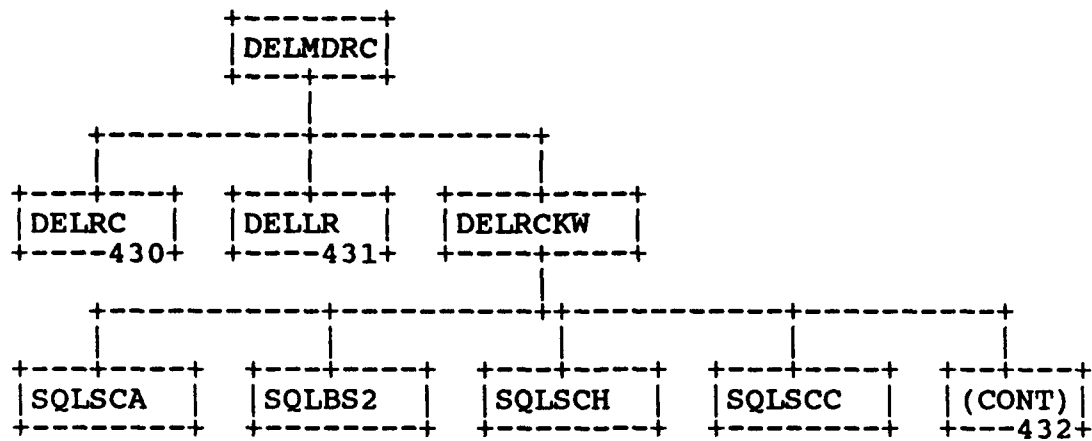
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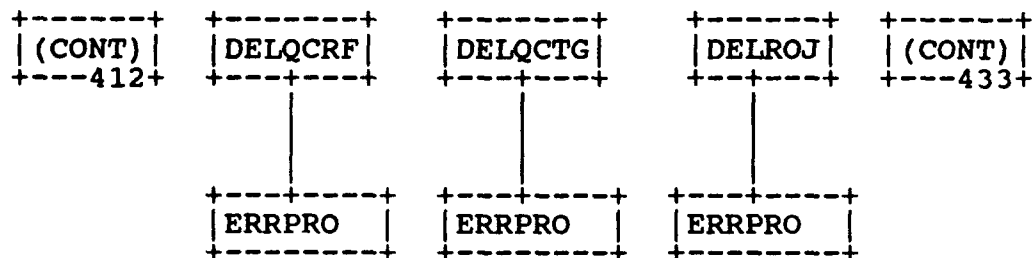
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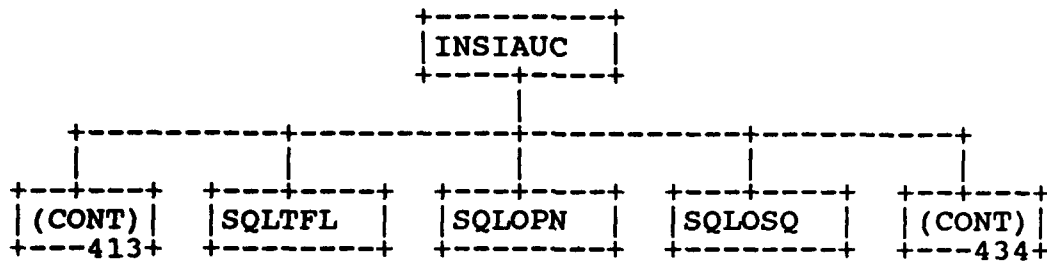
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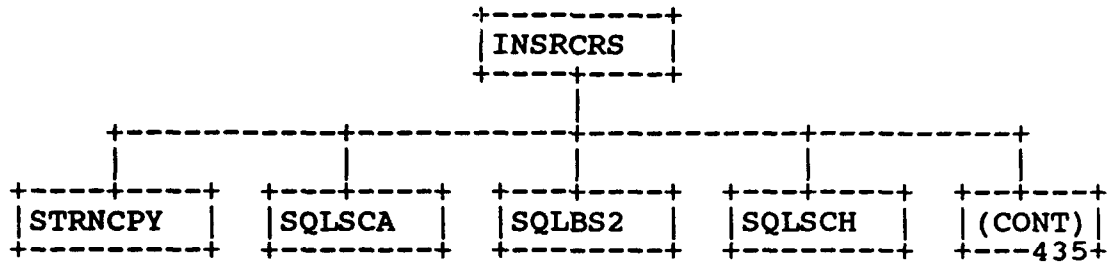
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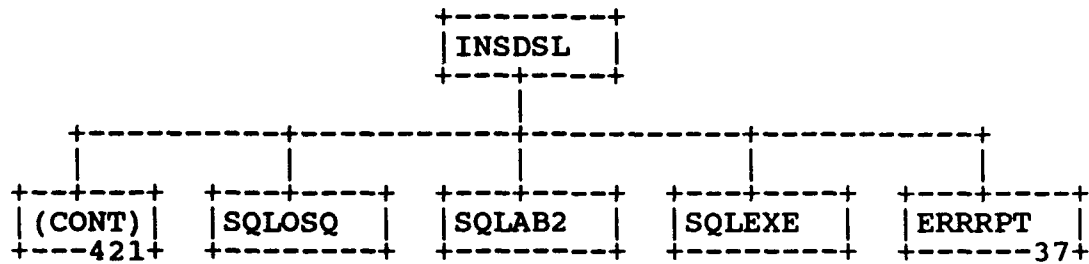
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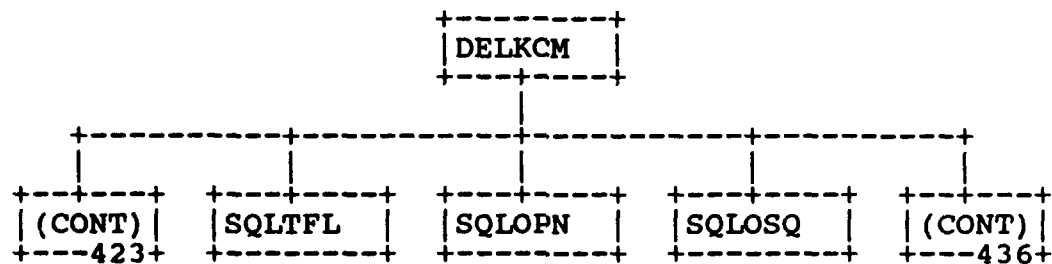
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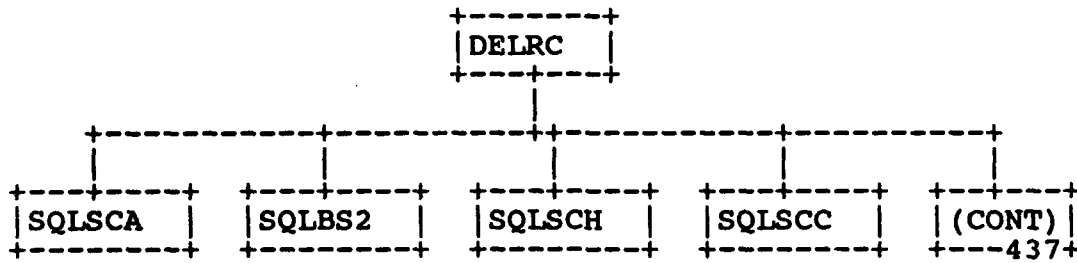
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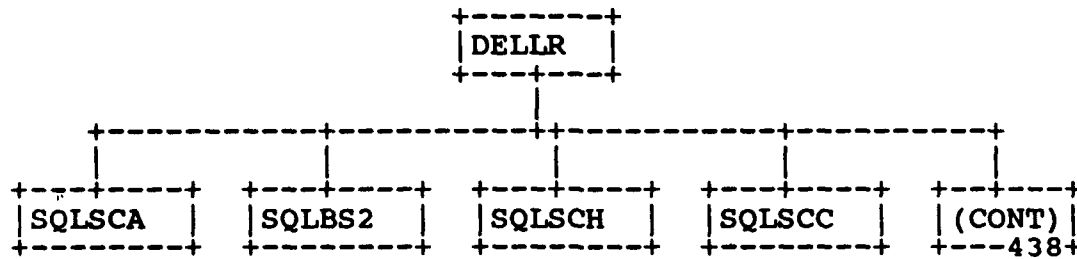
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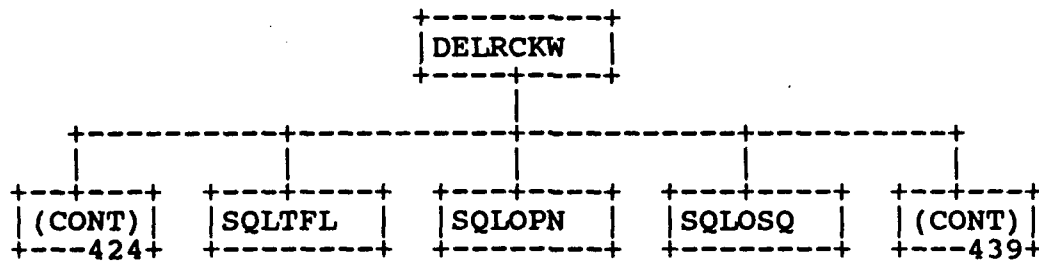
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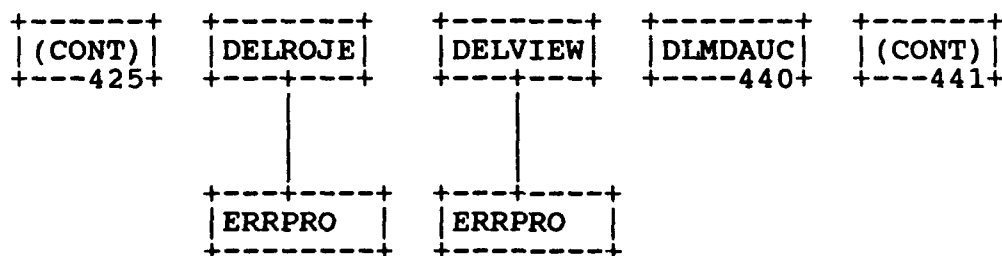
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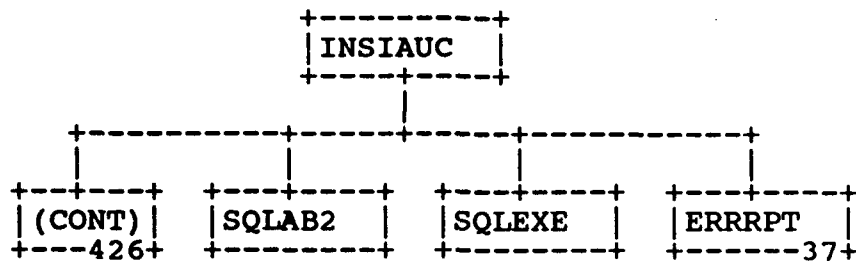
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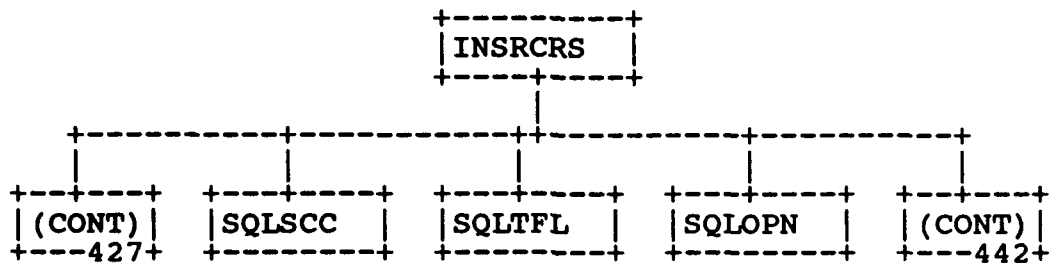
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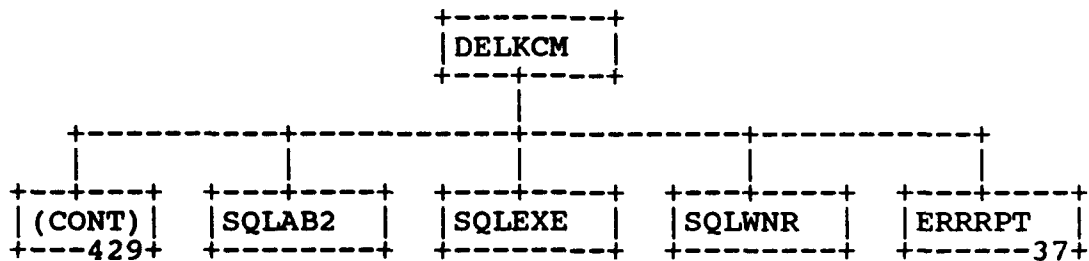
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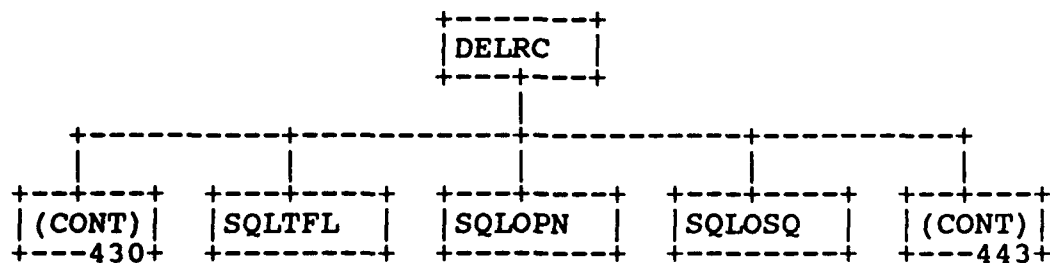
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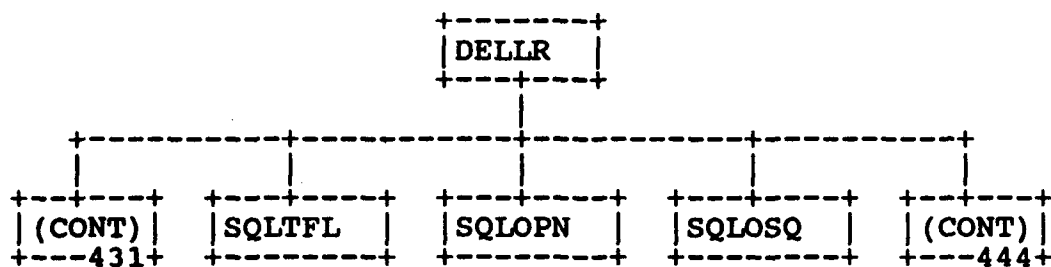
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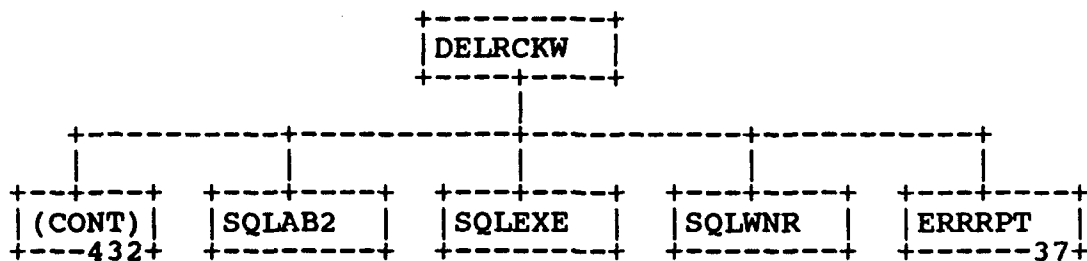
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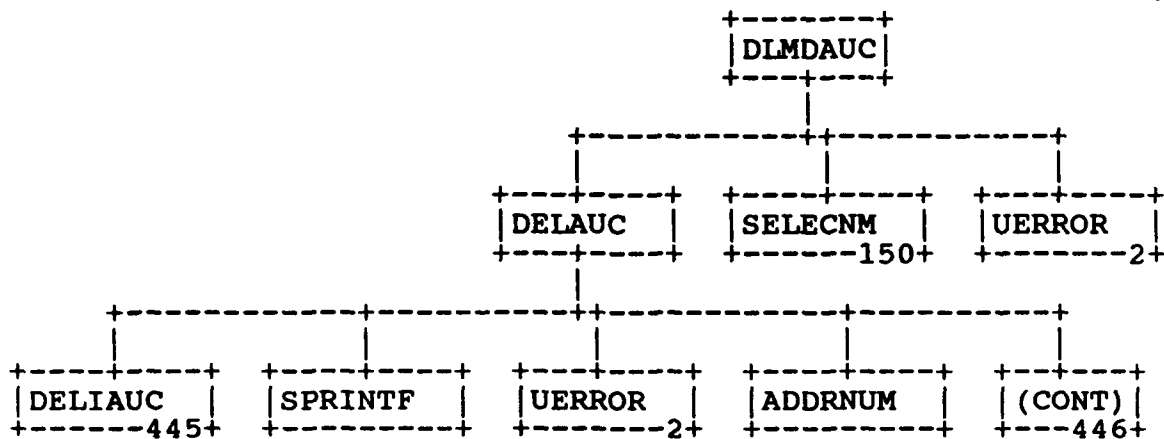
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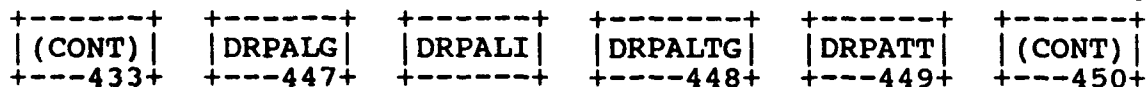
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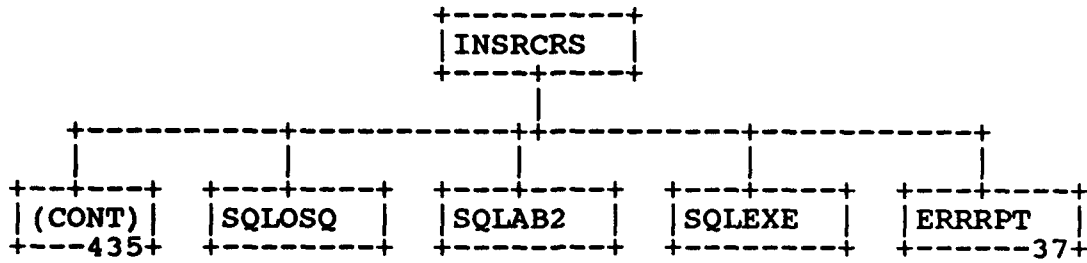
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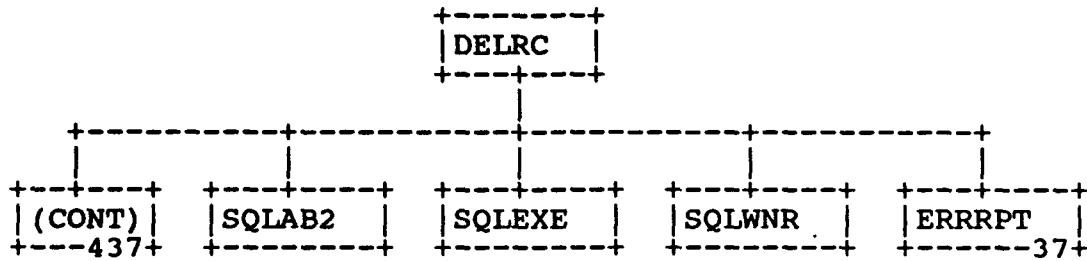
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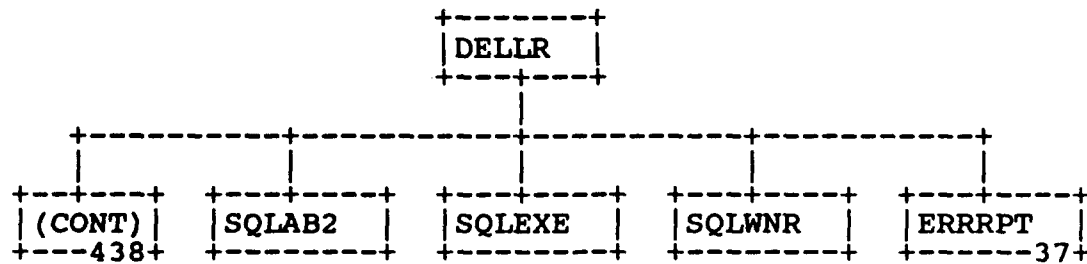
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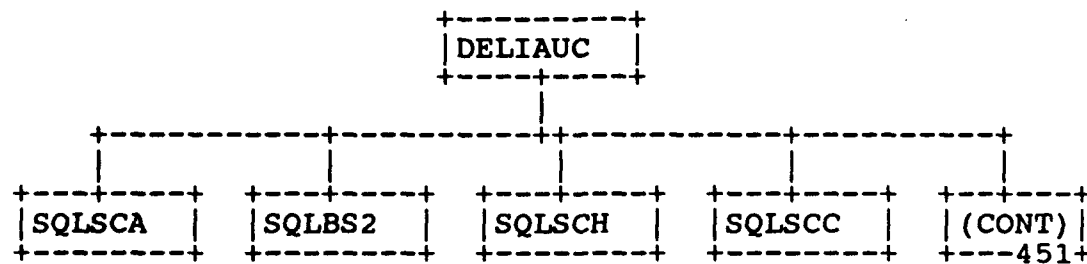
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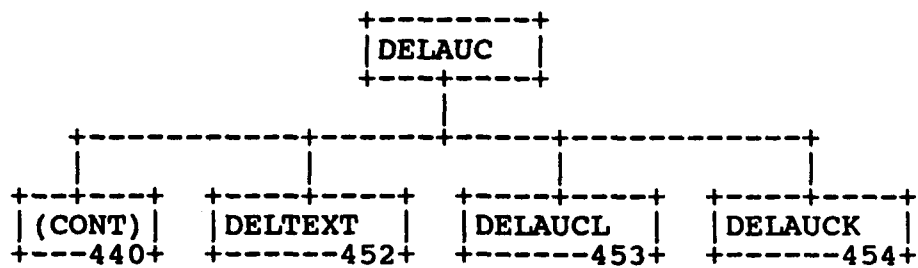
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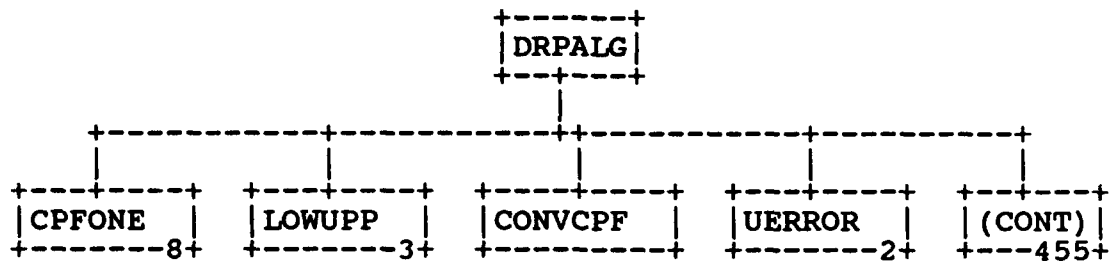
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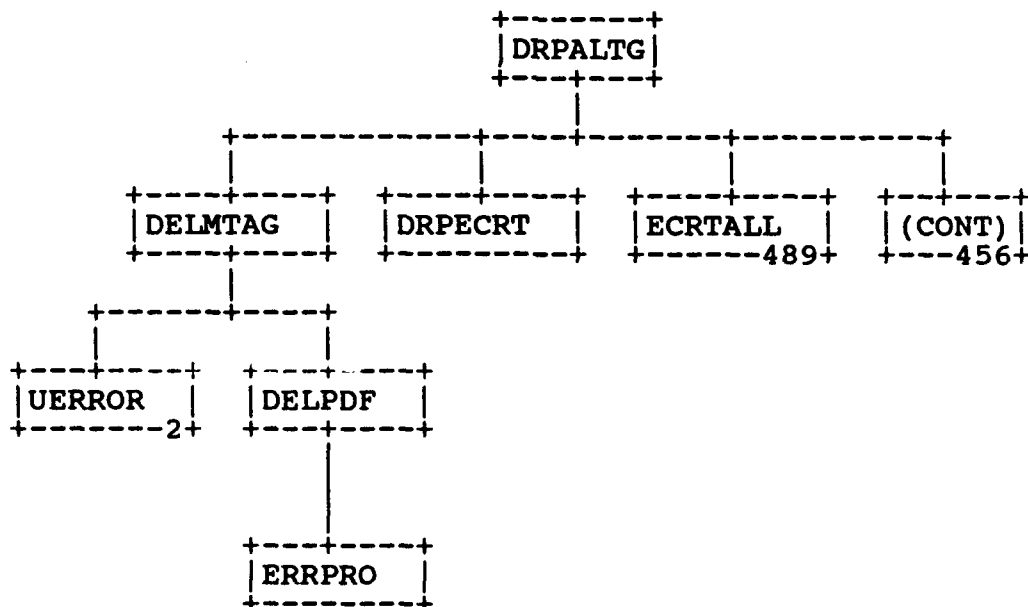
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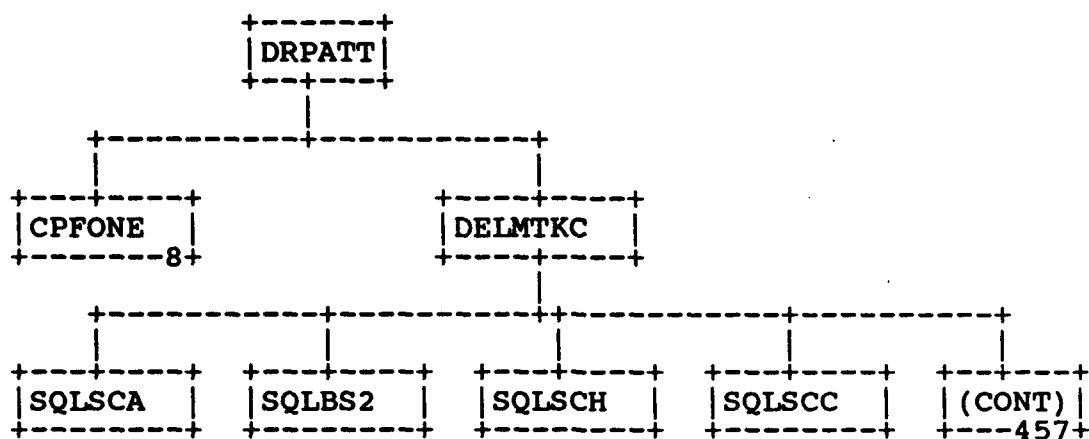
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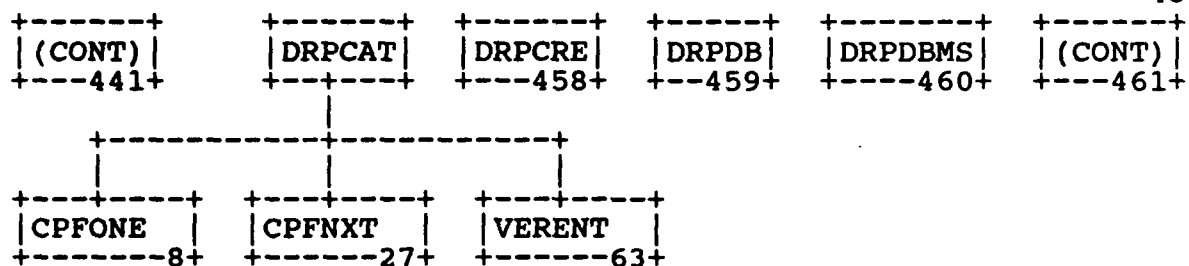
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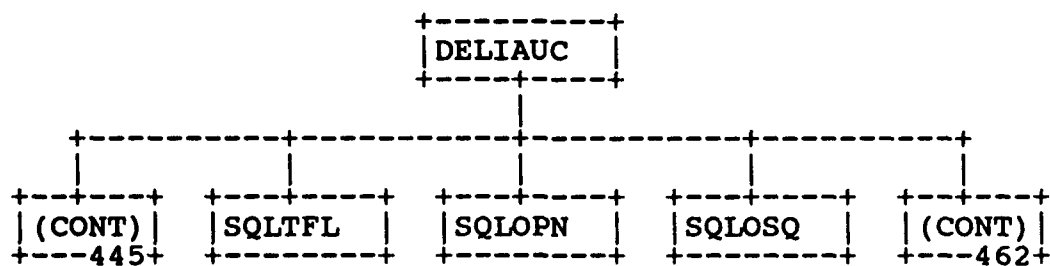
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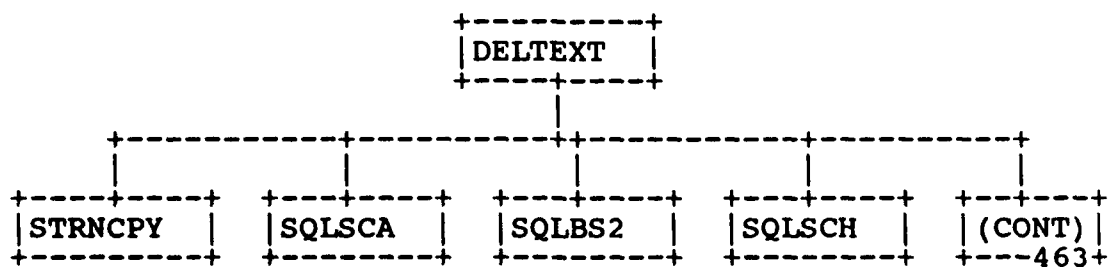
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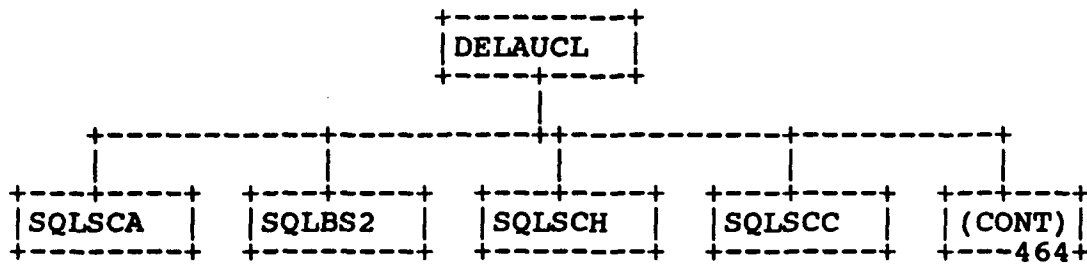
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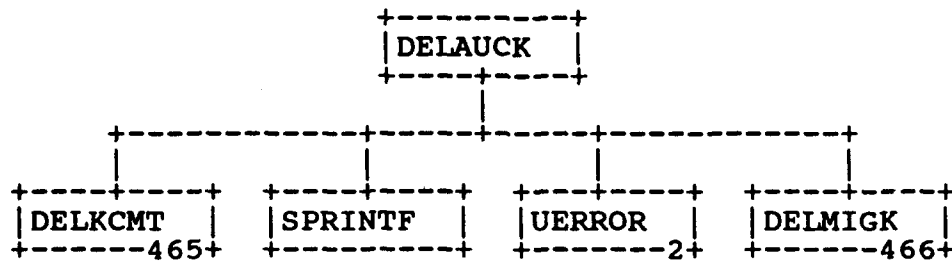
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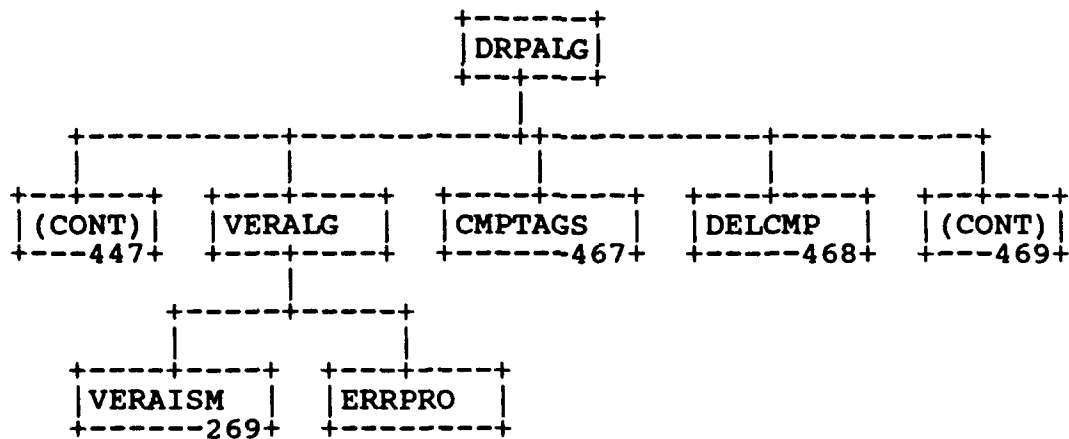
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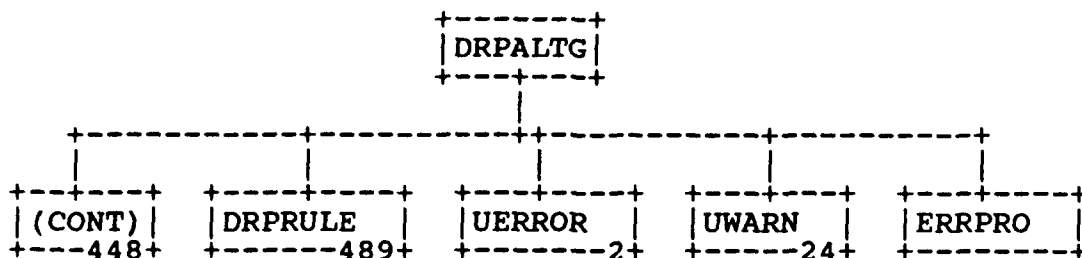
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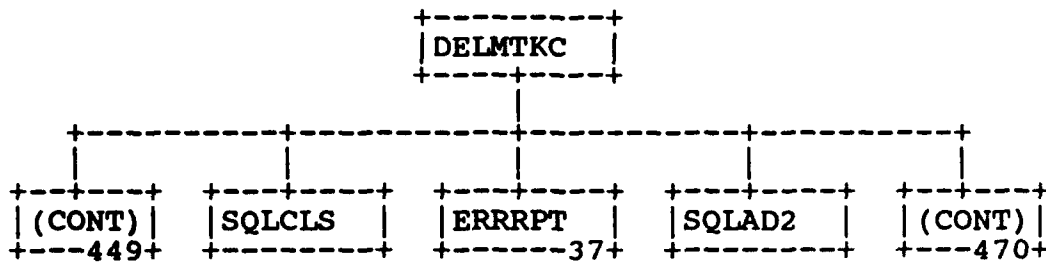
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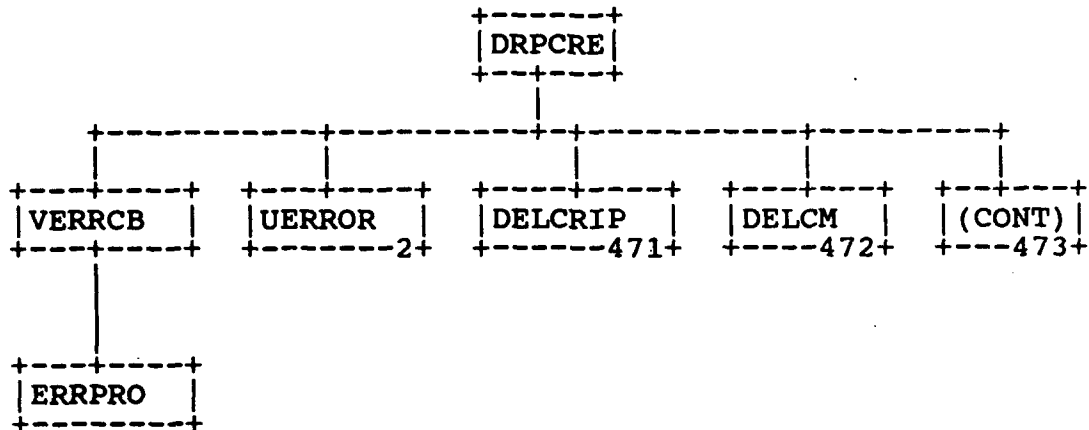
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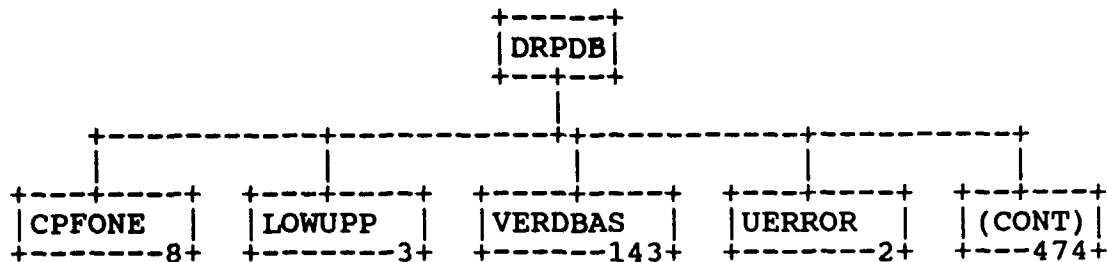
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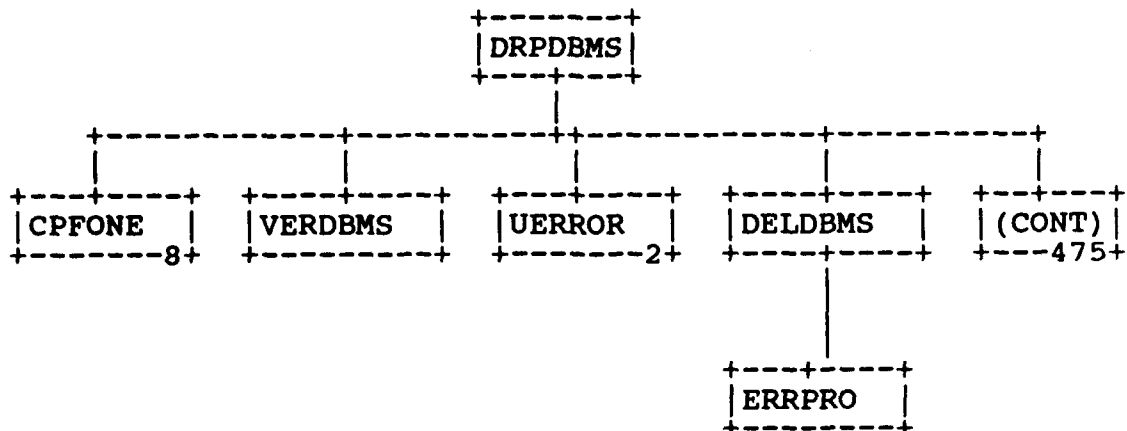
458



459



460



461

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450	476	477	478		479

462

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451				37

463

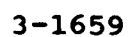
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(CONT)	SQLSCC	SQLTFL	SQLOPN	(CONT)
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464

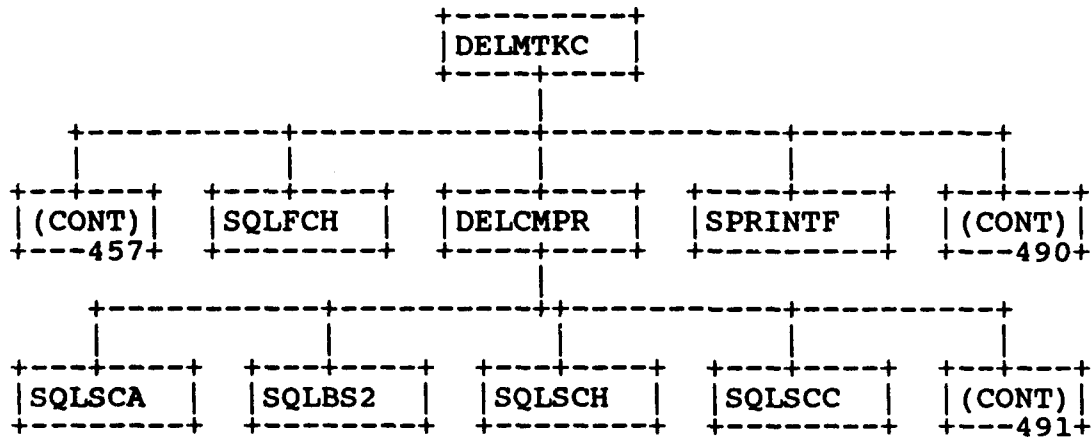
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453				481

465

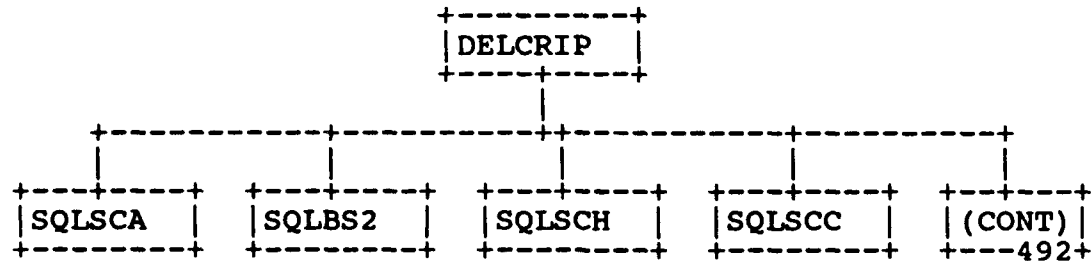
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SQLSCA	SQLBS2	SQLSCH	SQLSCC	(CONT)
				482



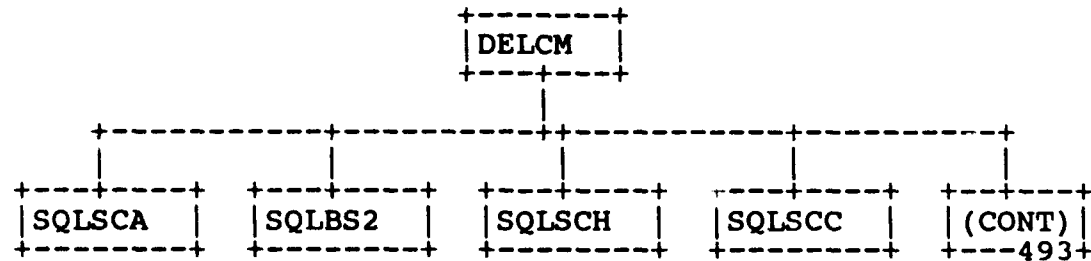
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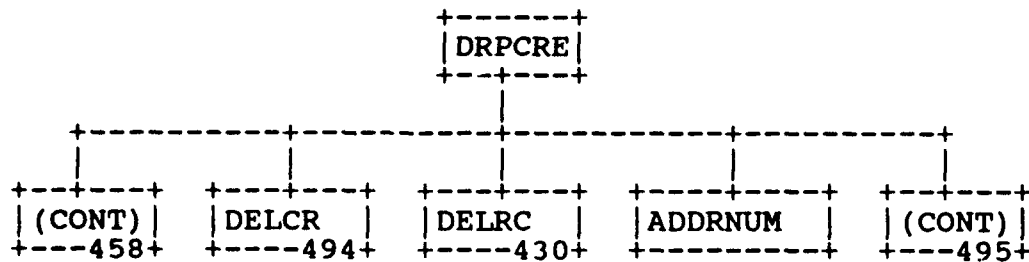
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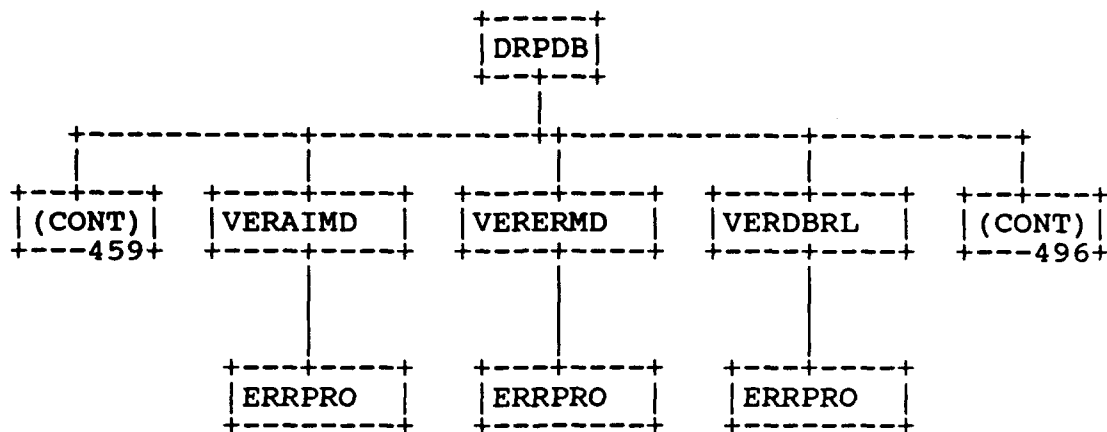
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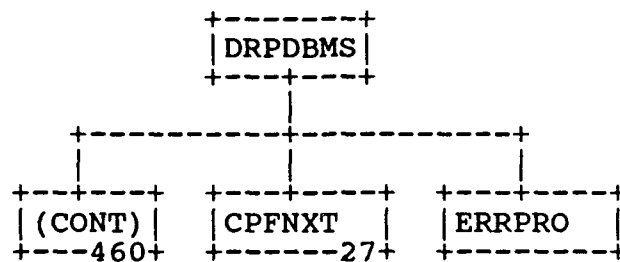
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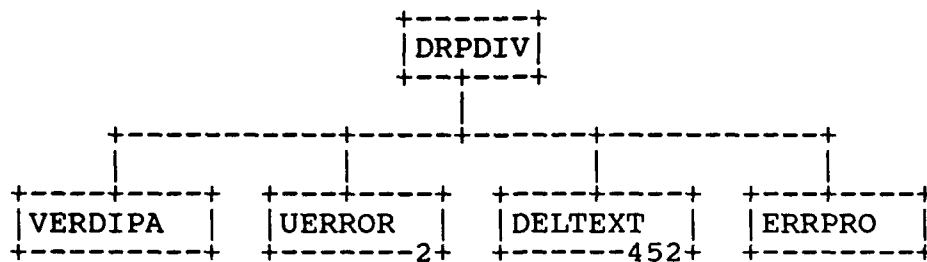
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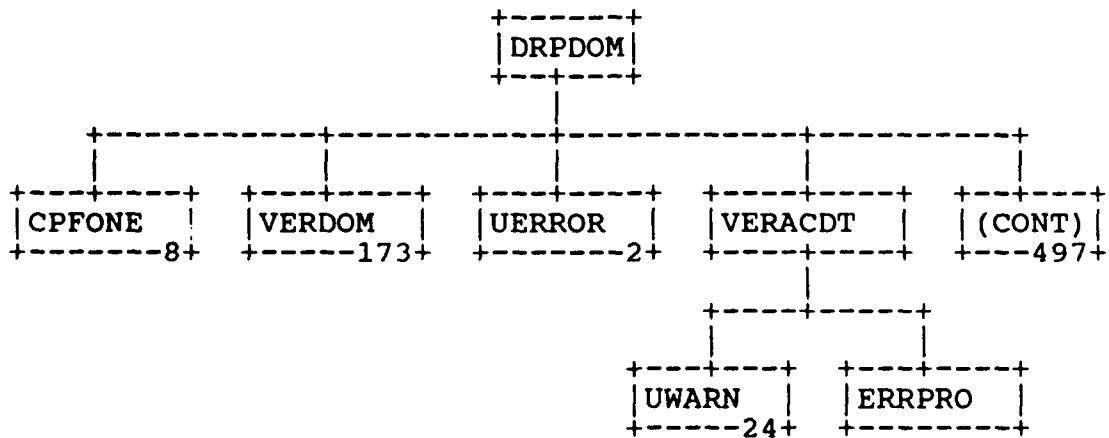
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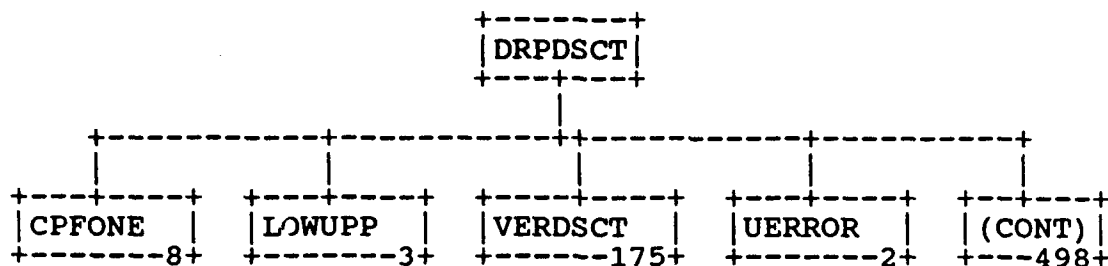
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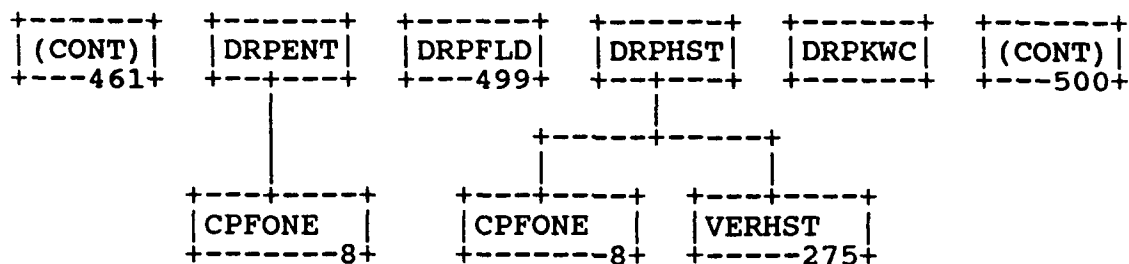
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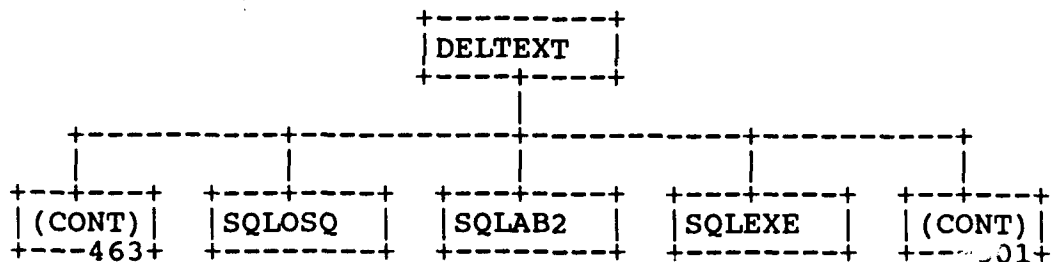
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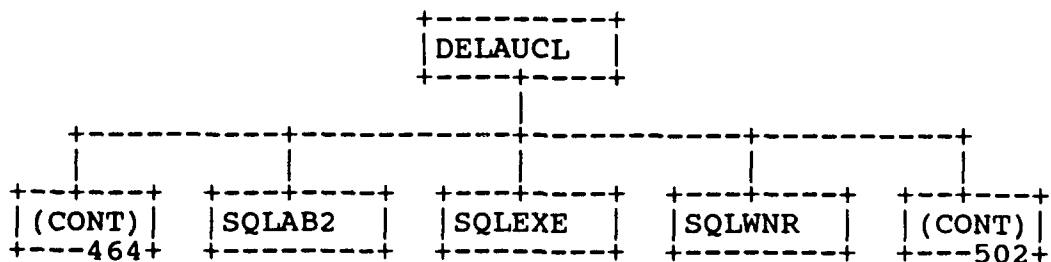
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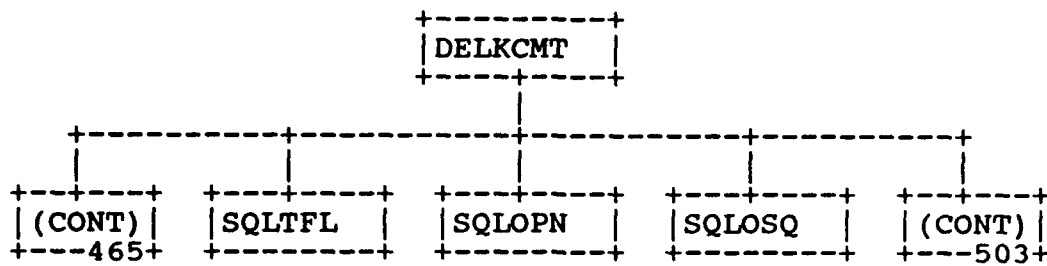
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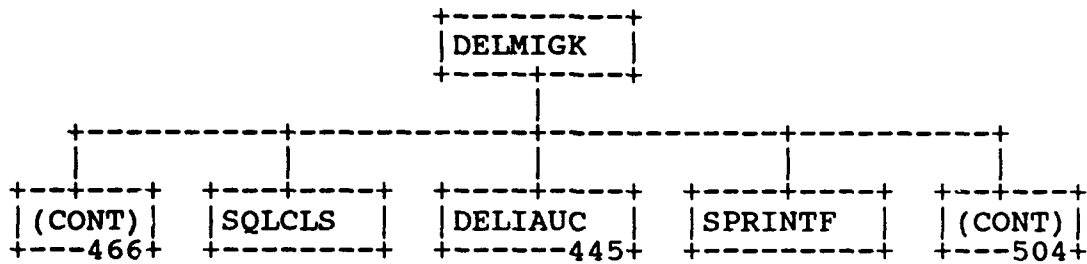
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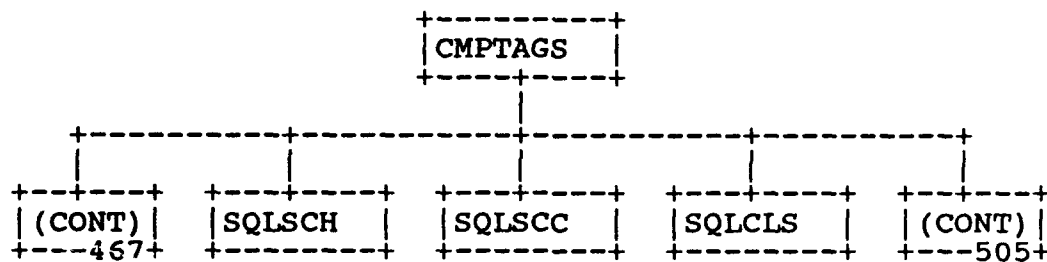
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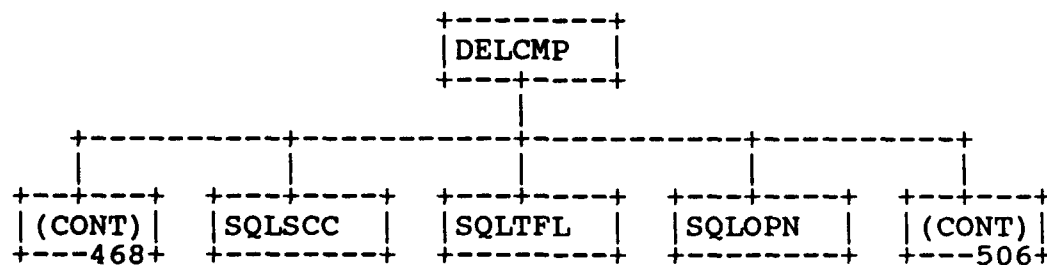
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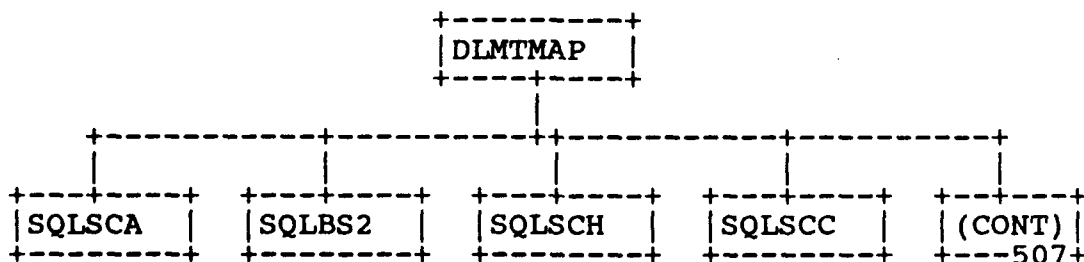
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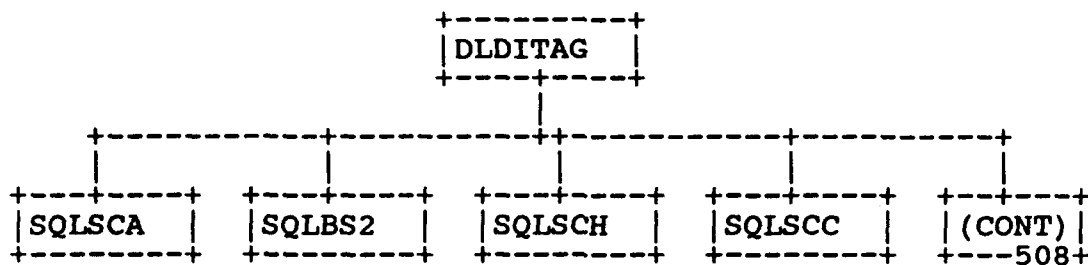
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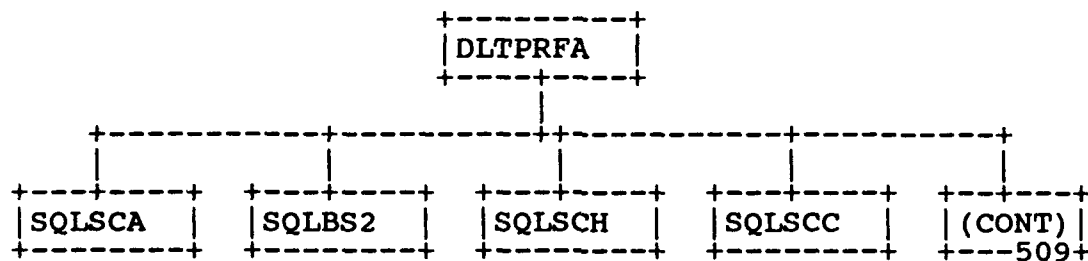
486



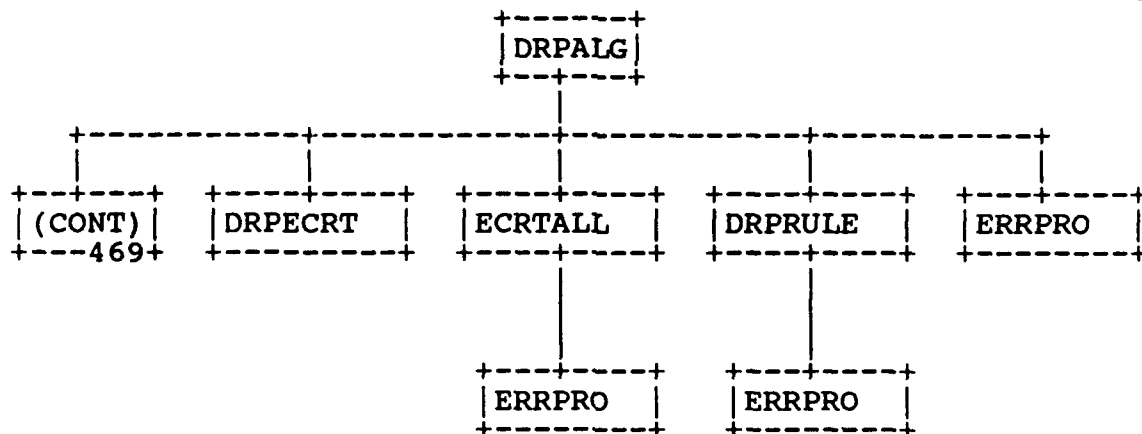
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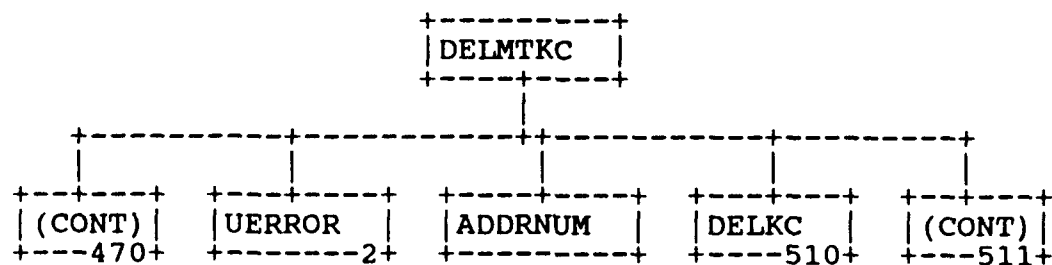
488



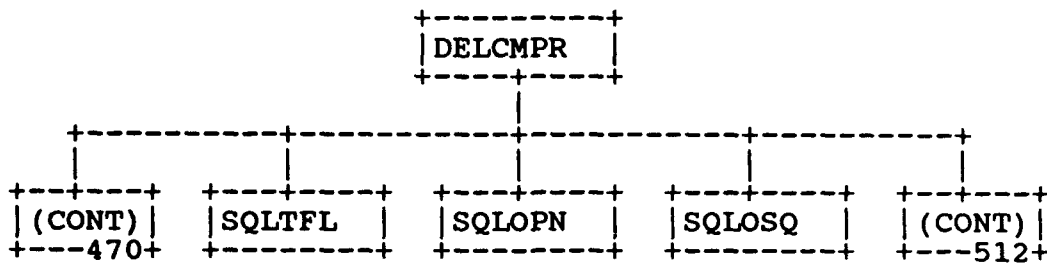
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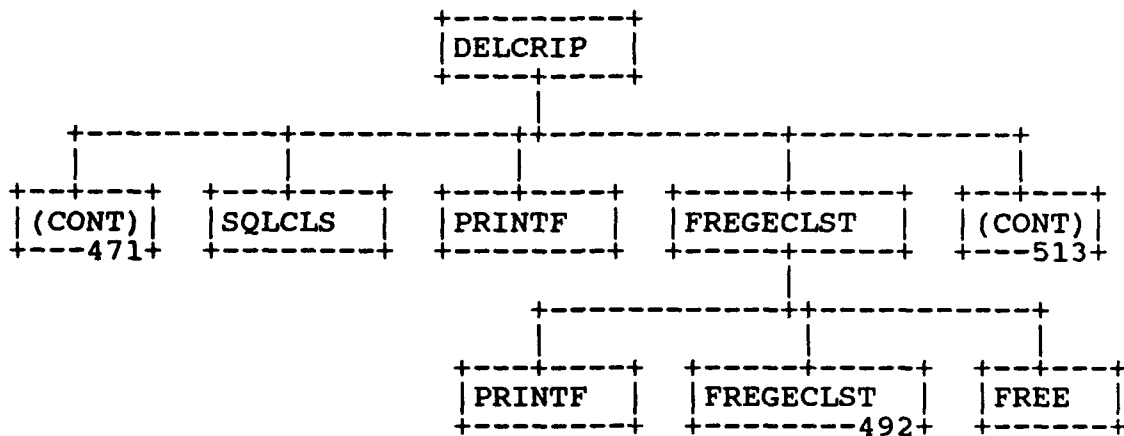
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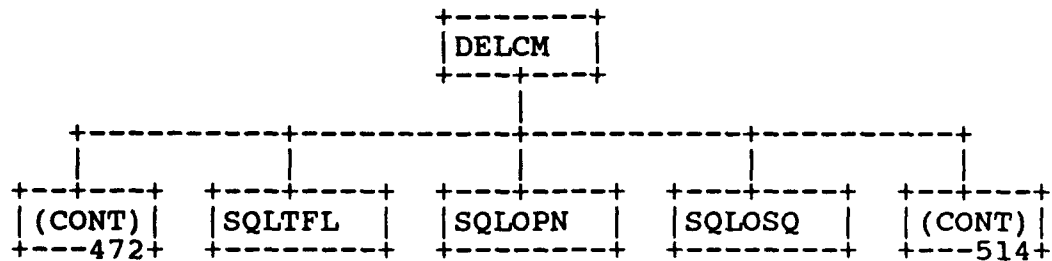
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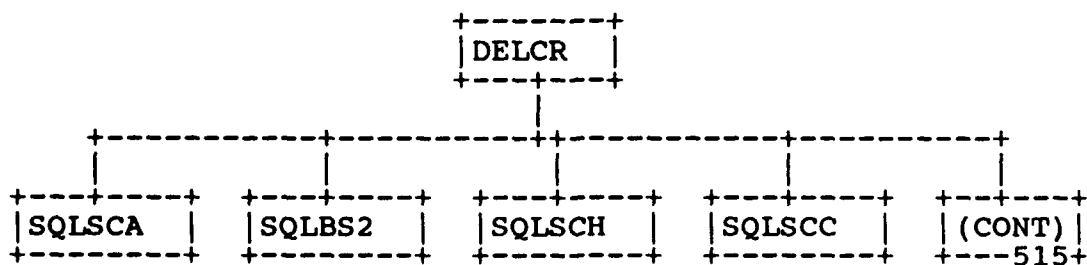
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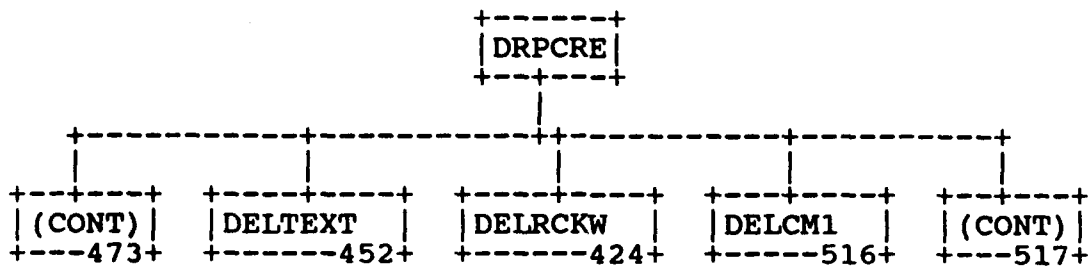
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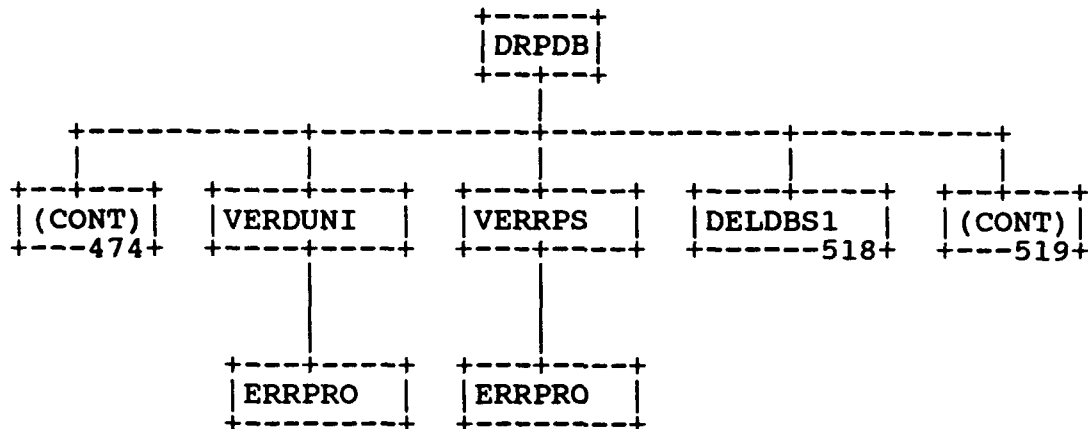
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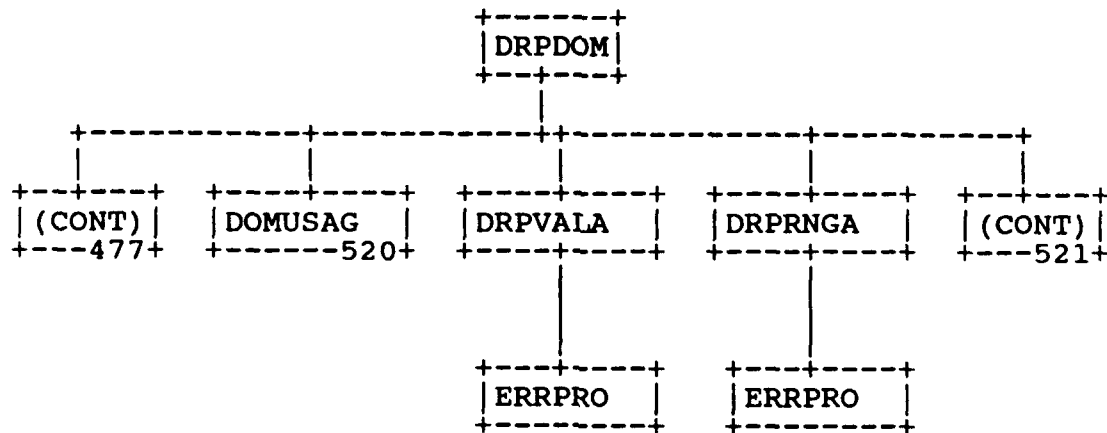
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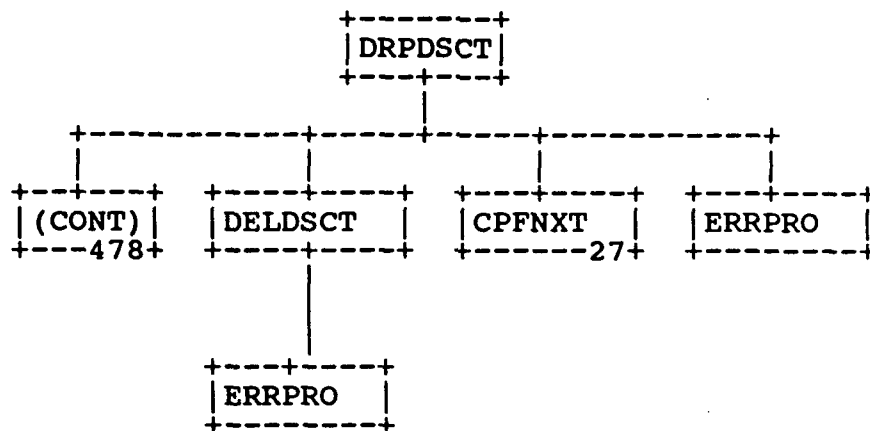
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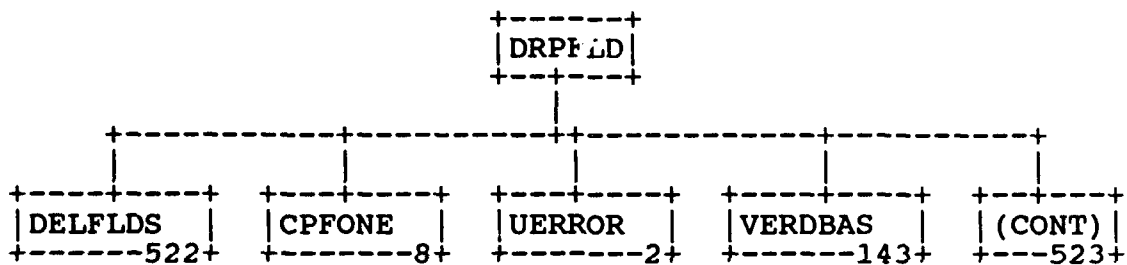
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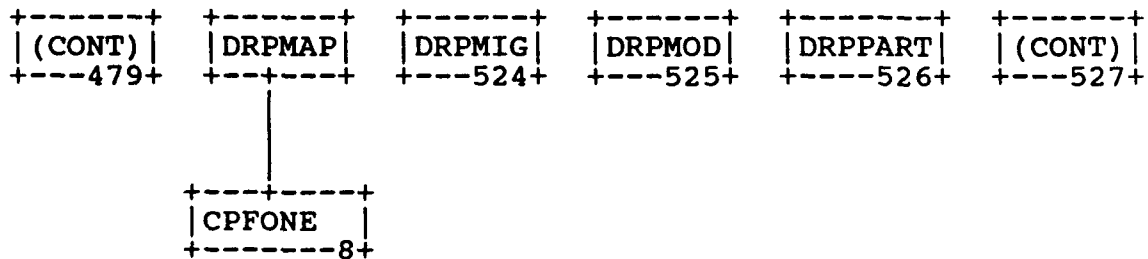
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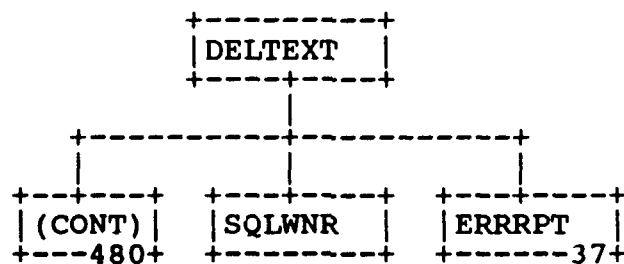
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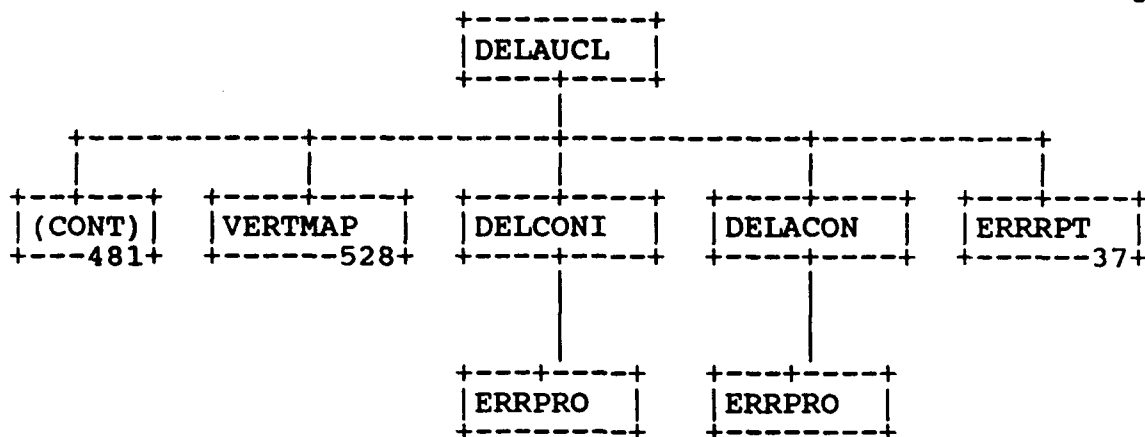
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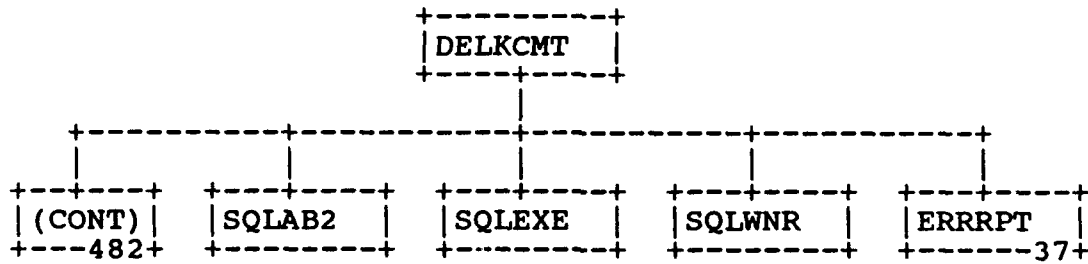
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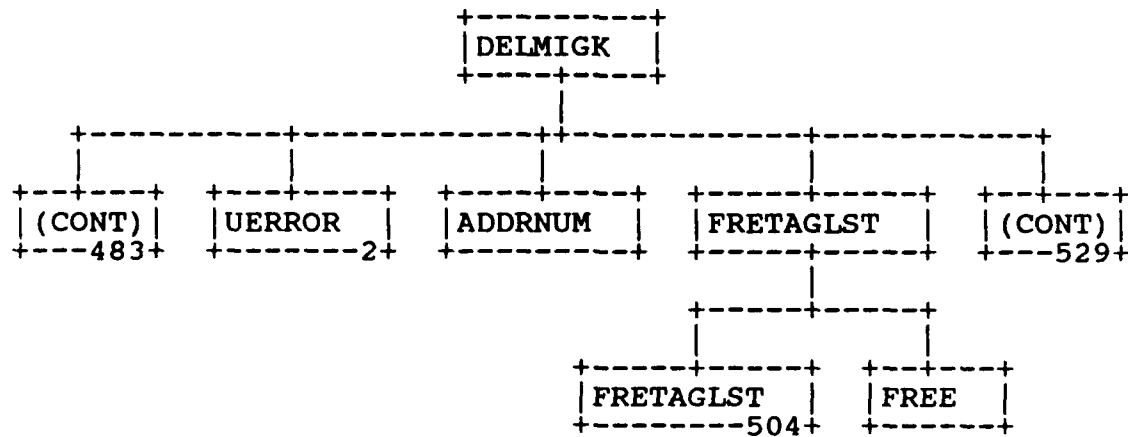
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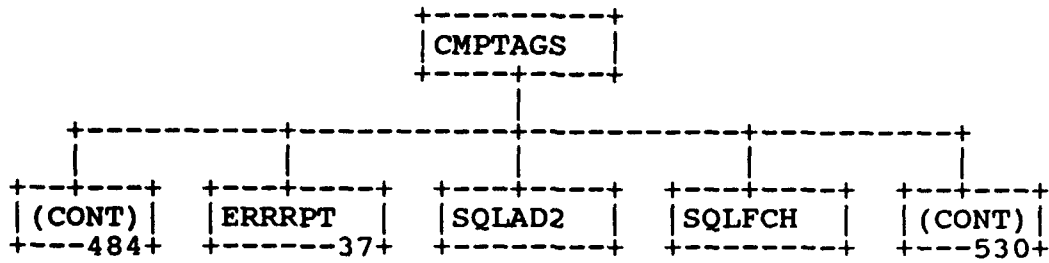
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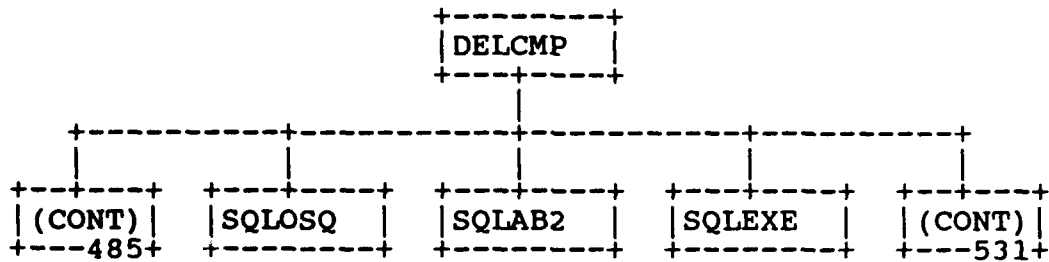
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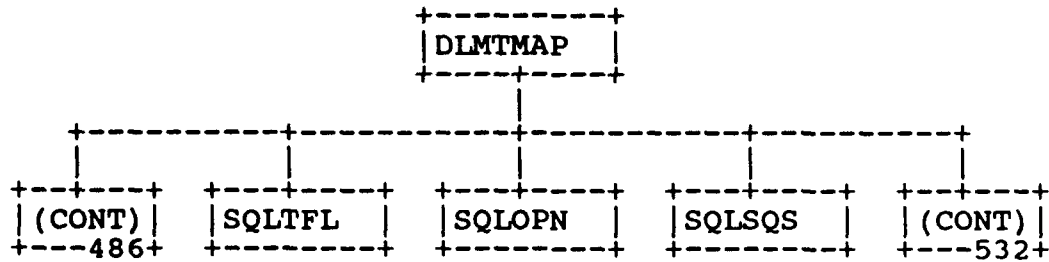
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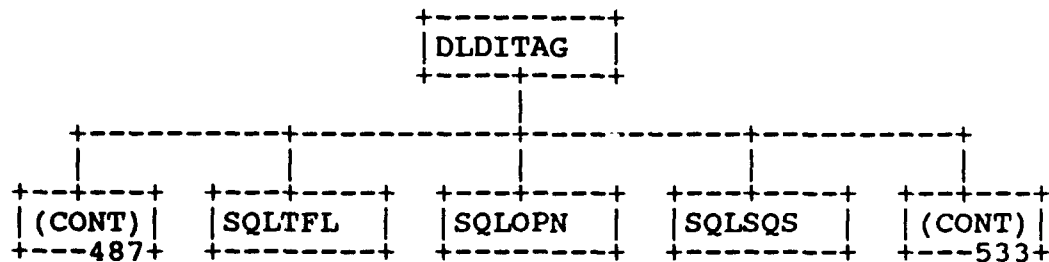
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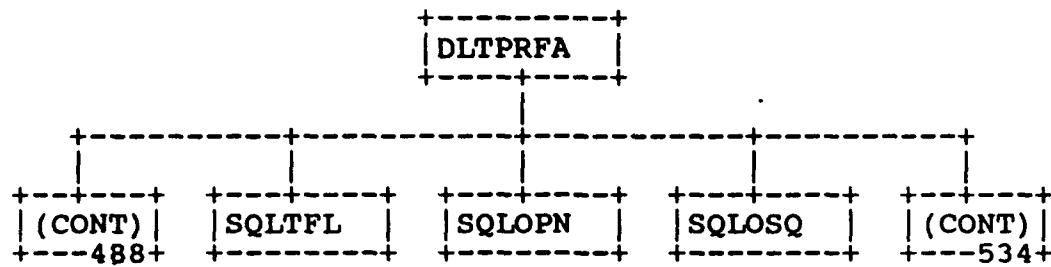
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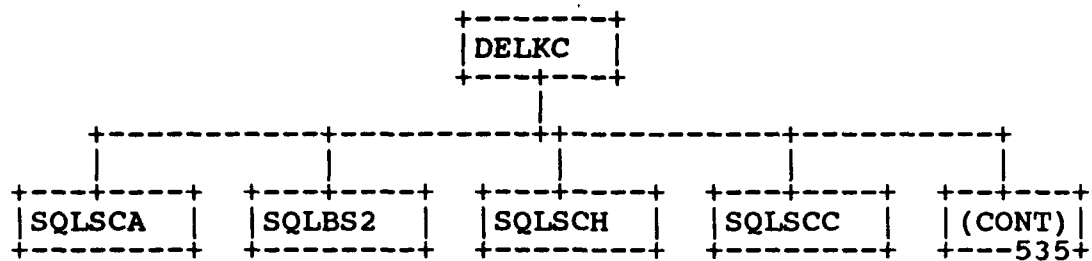
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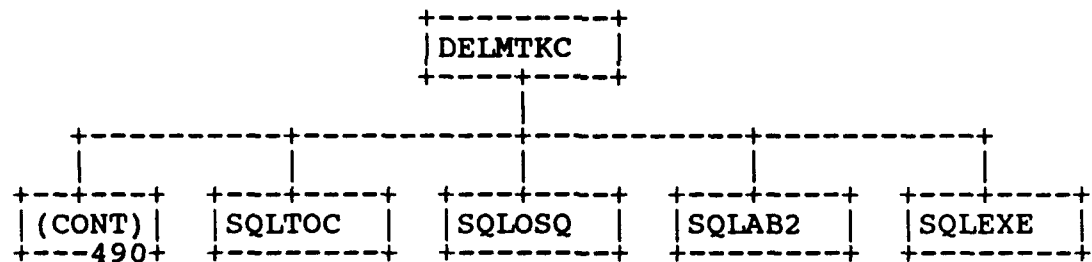
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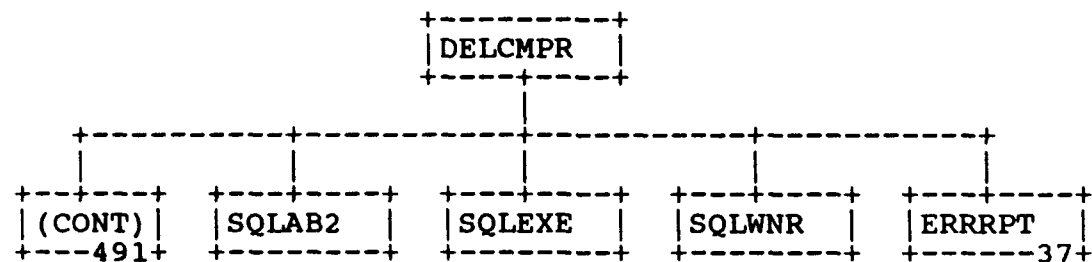
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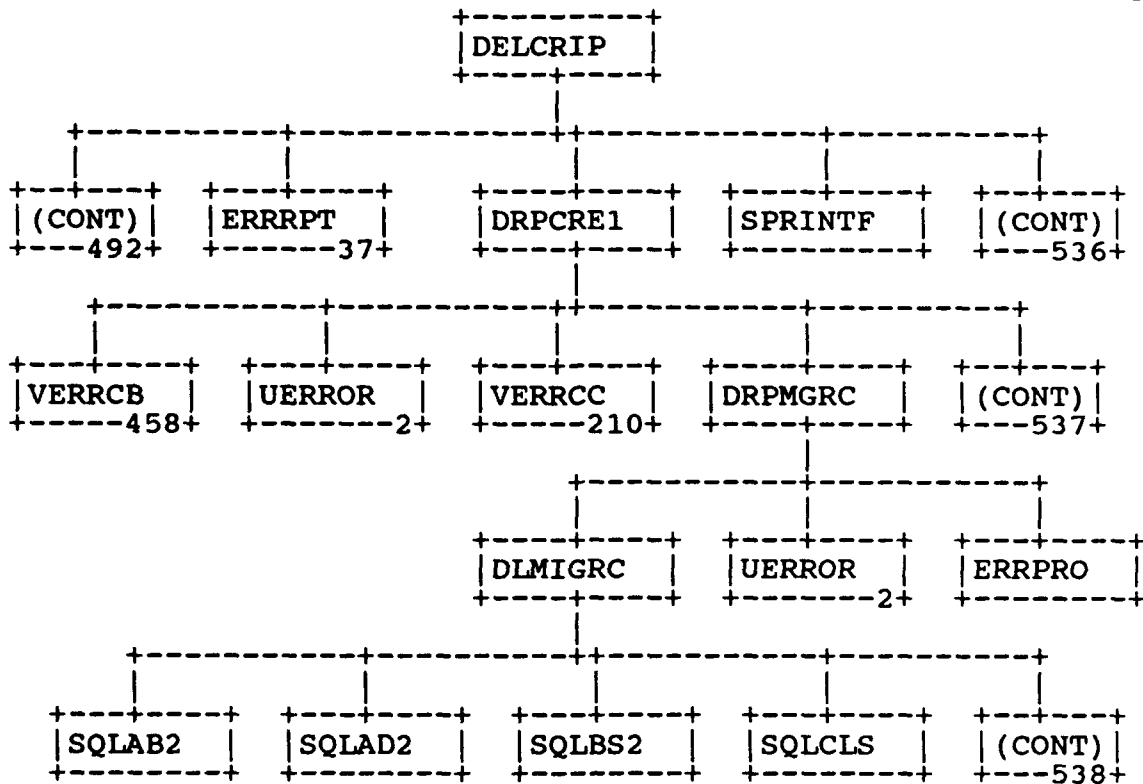
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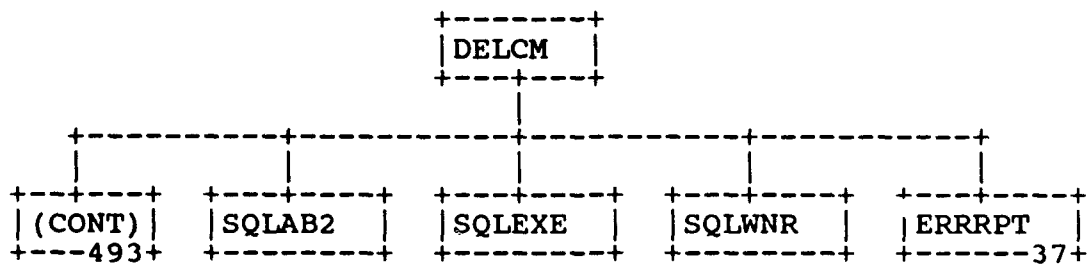
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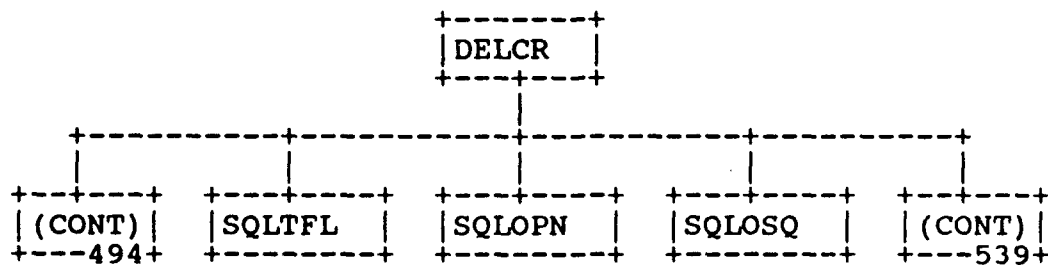
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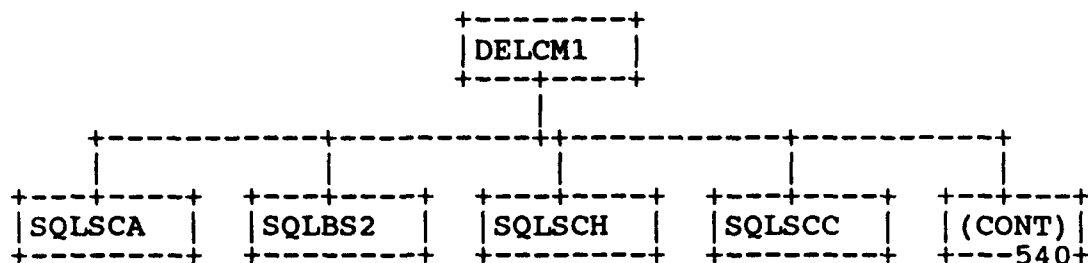
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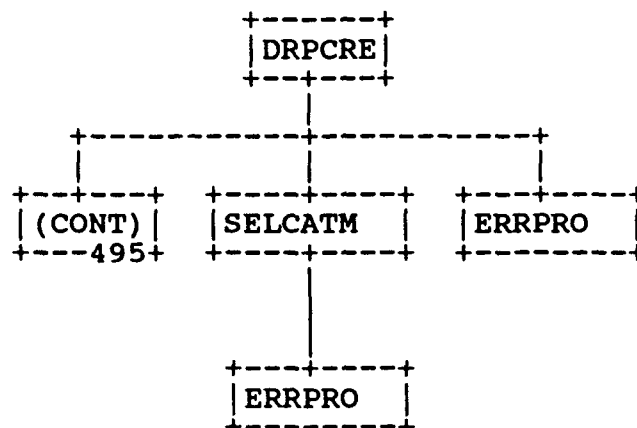
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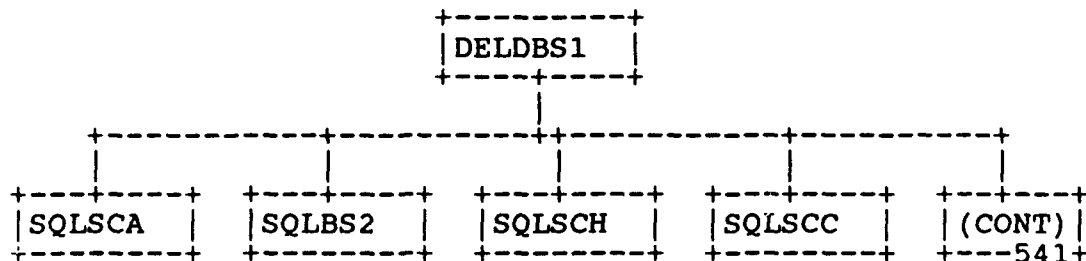
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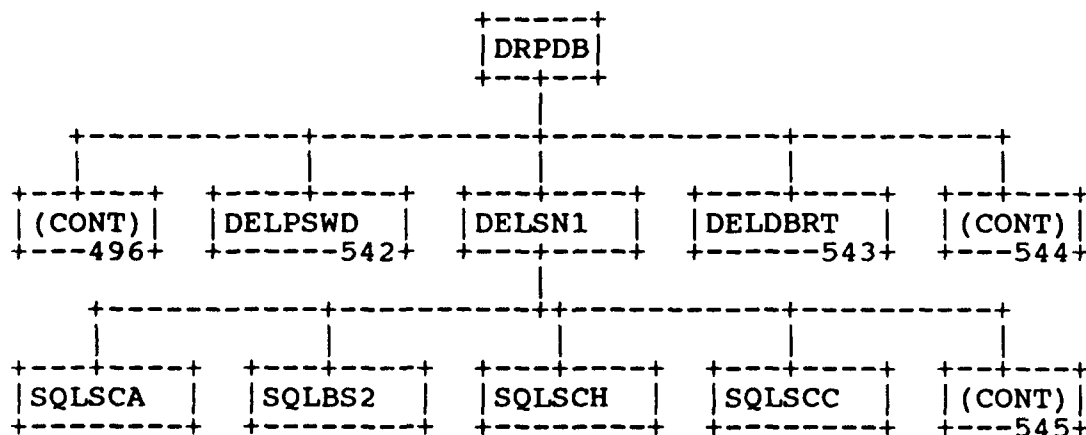
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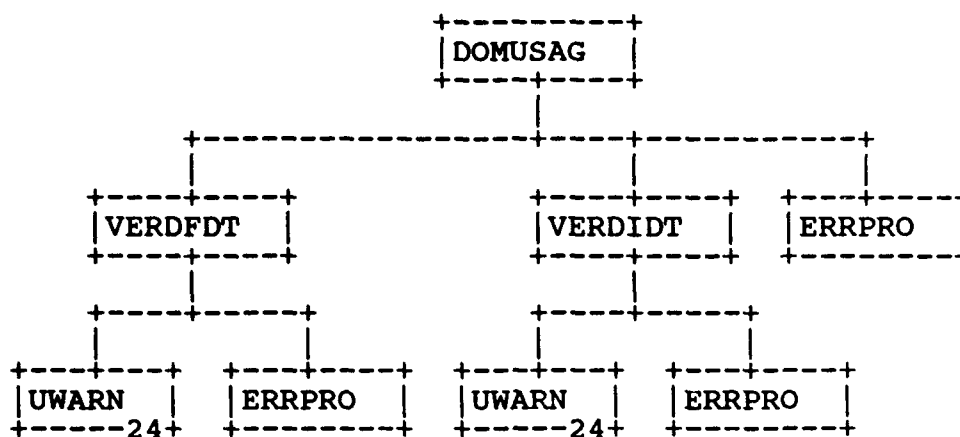
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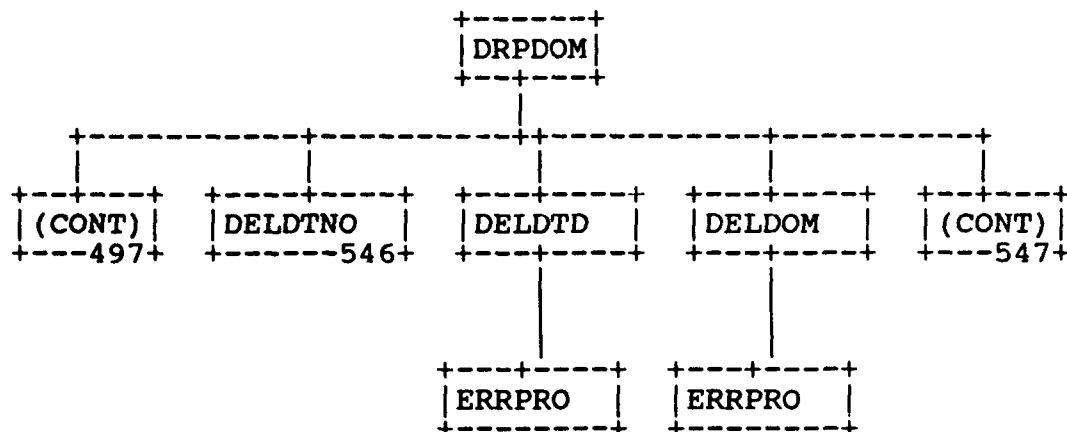
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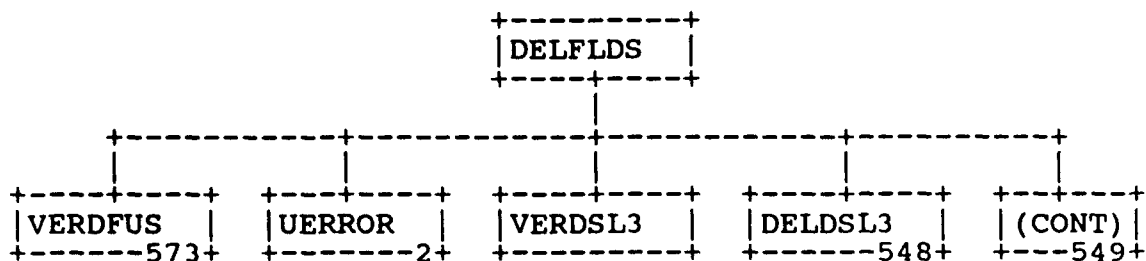
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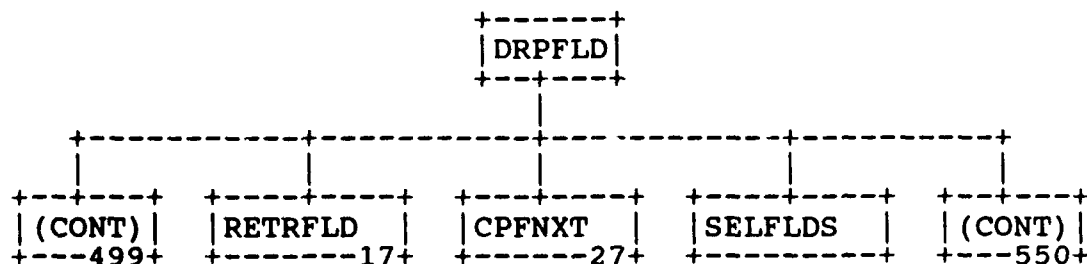
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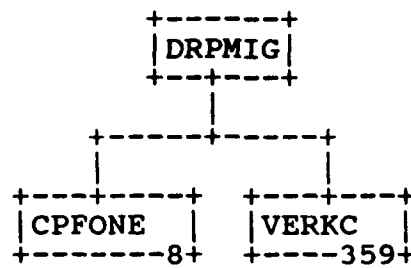
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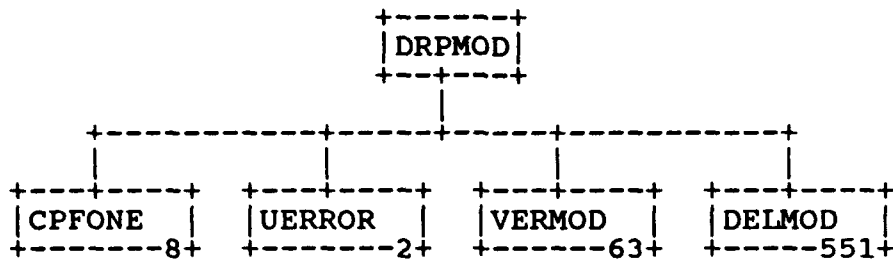
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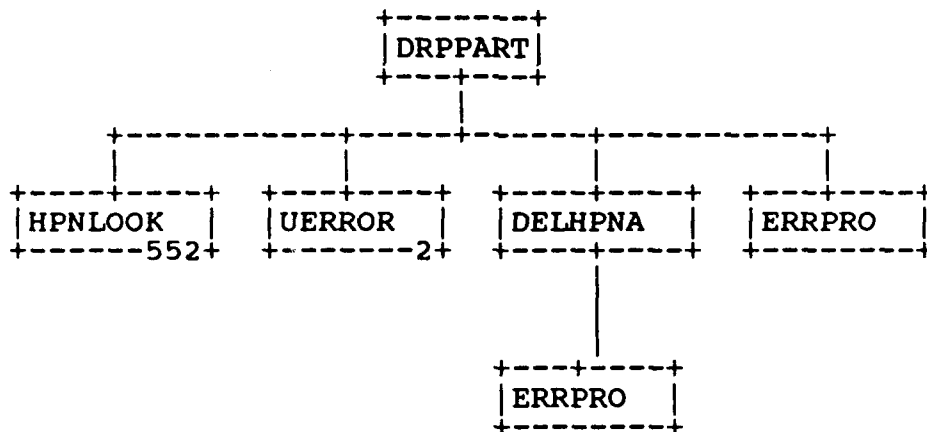
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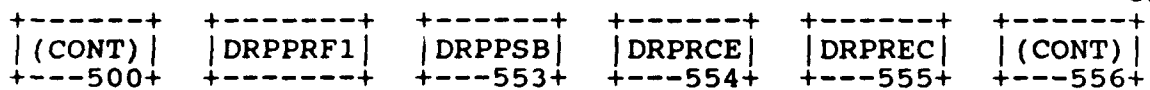
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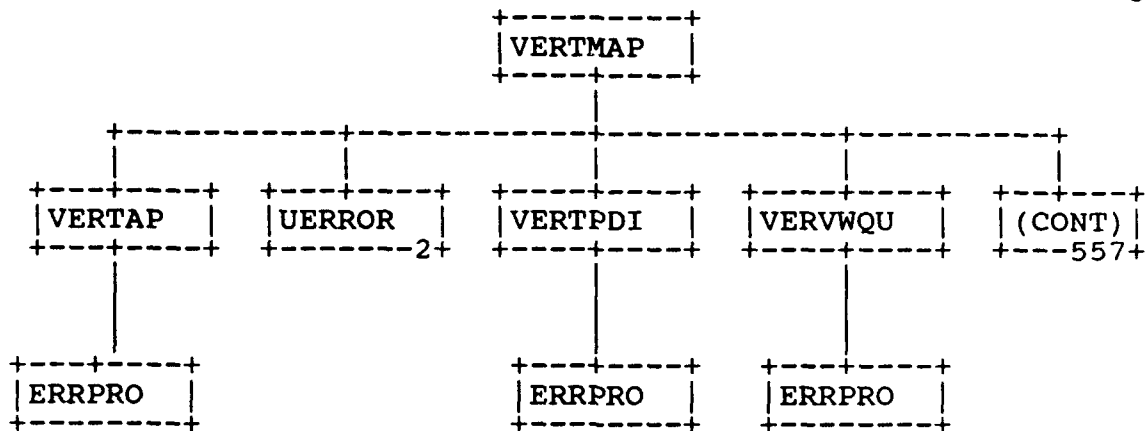
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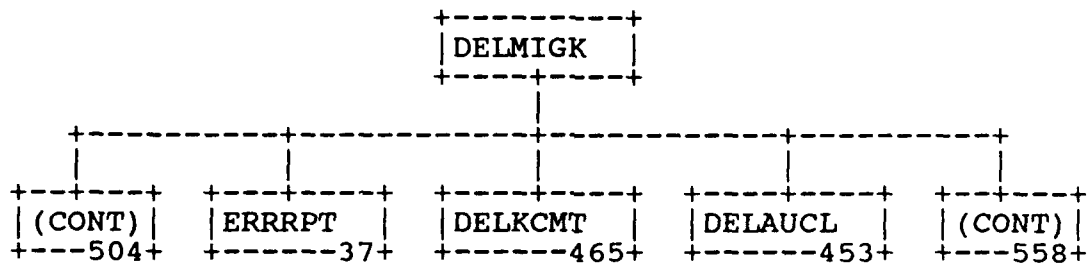
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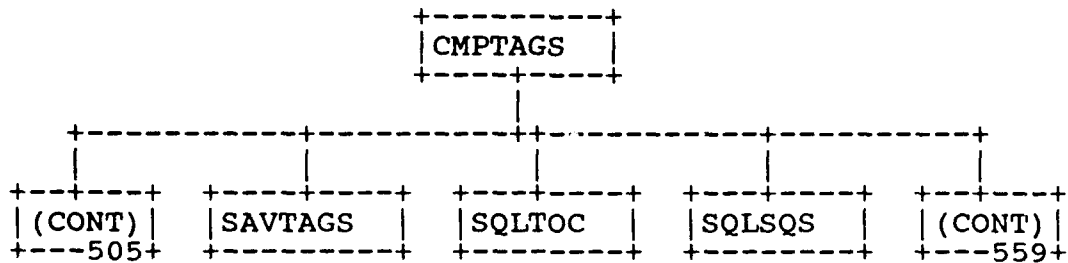
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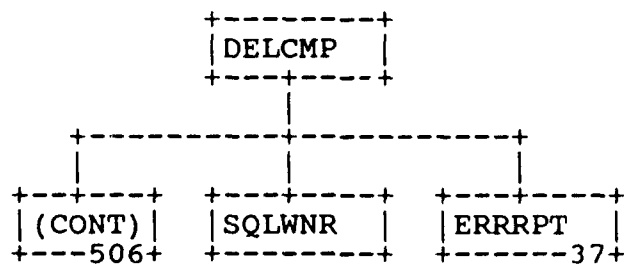
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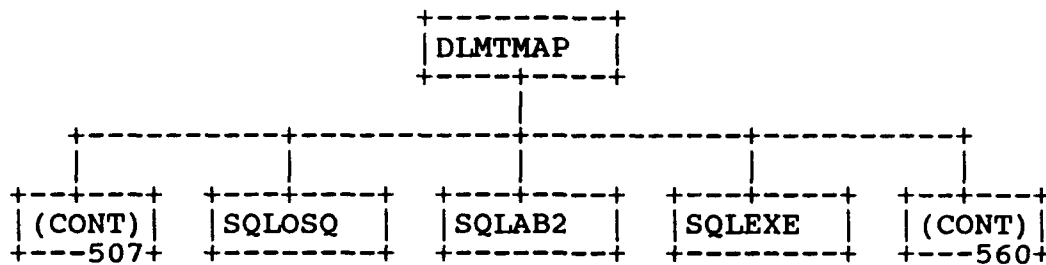
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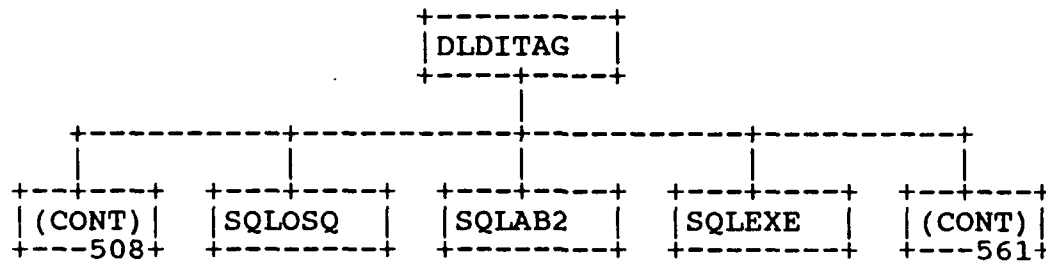
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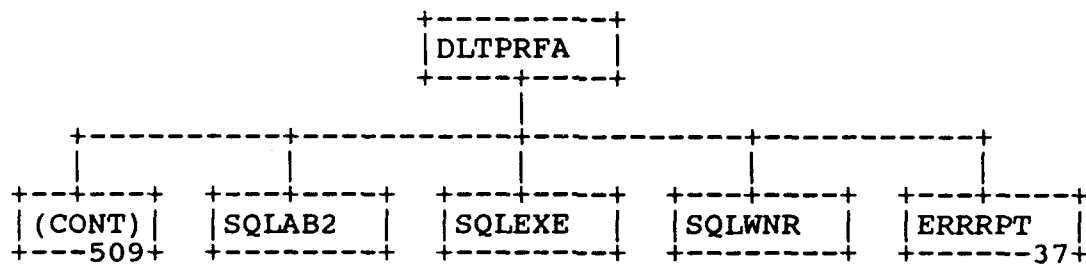
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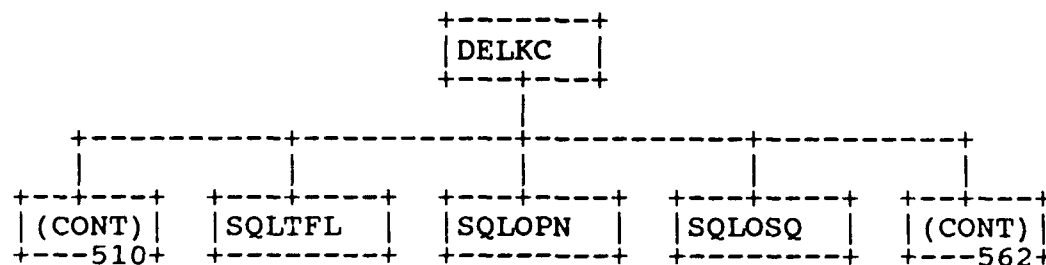
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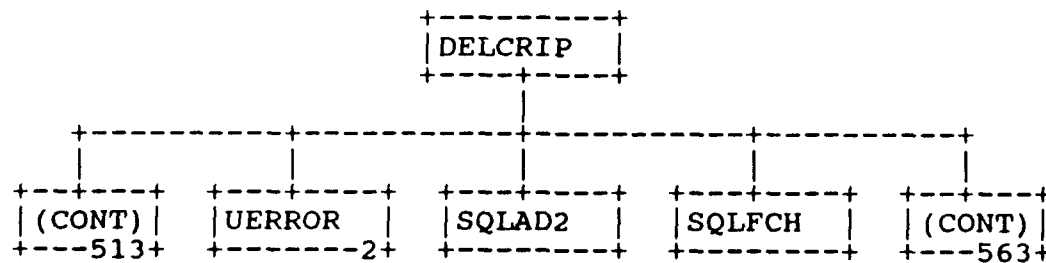
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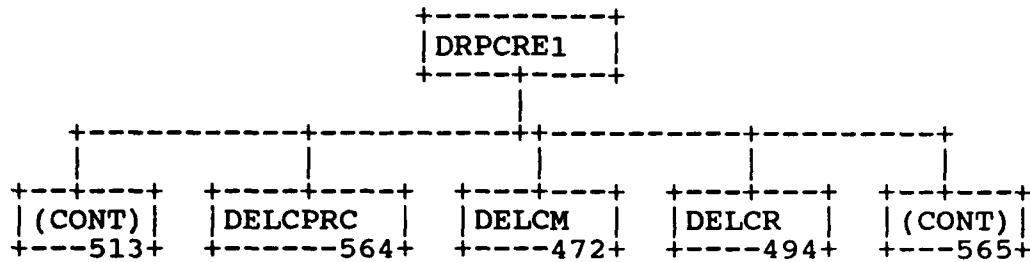
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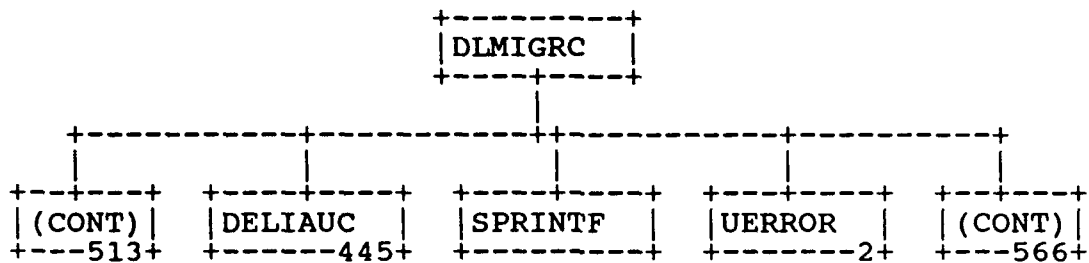
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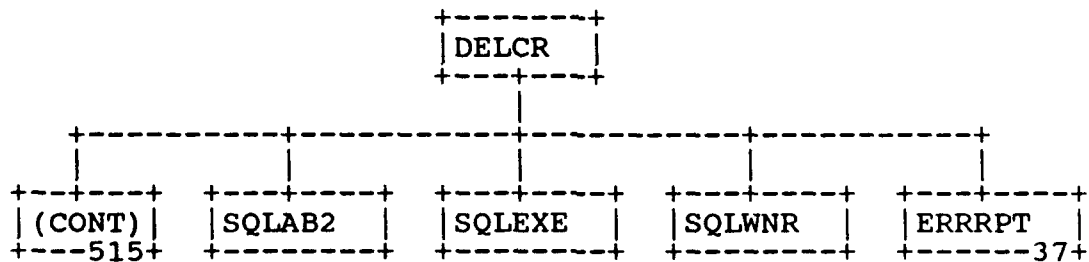
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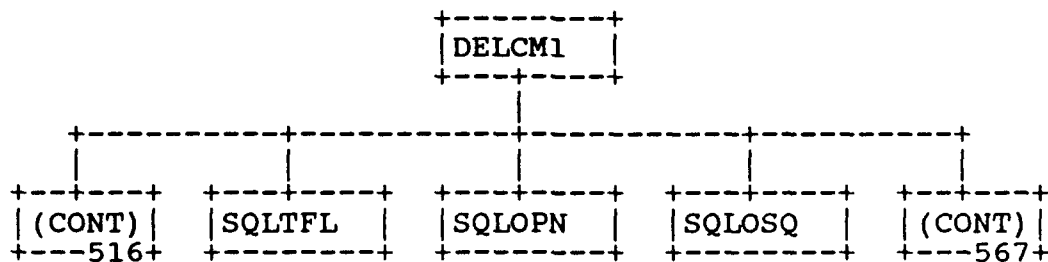
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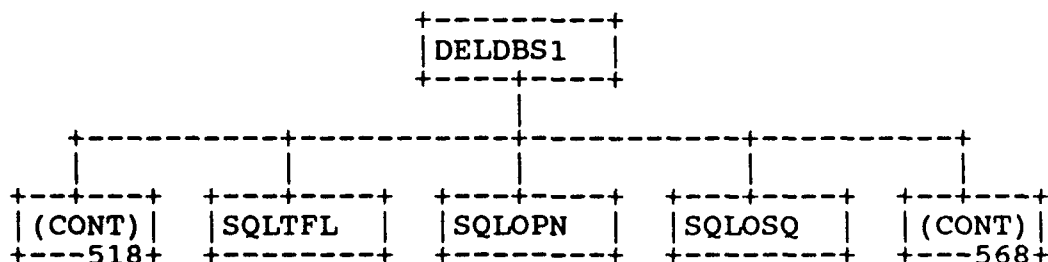
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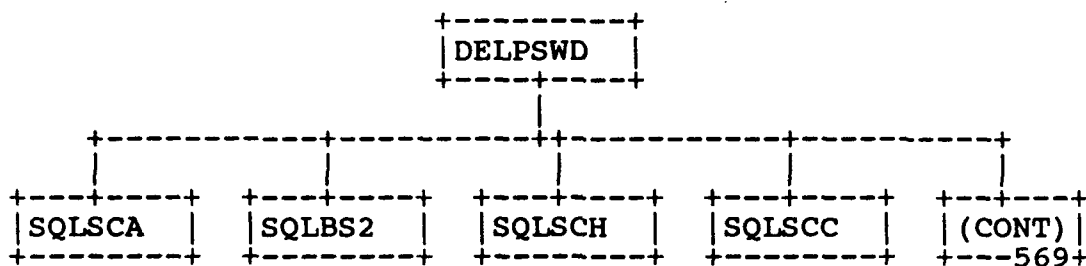
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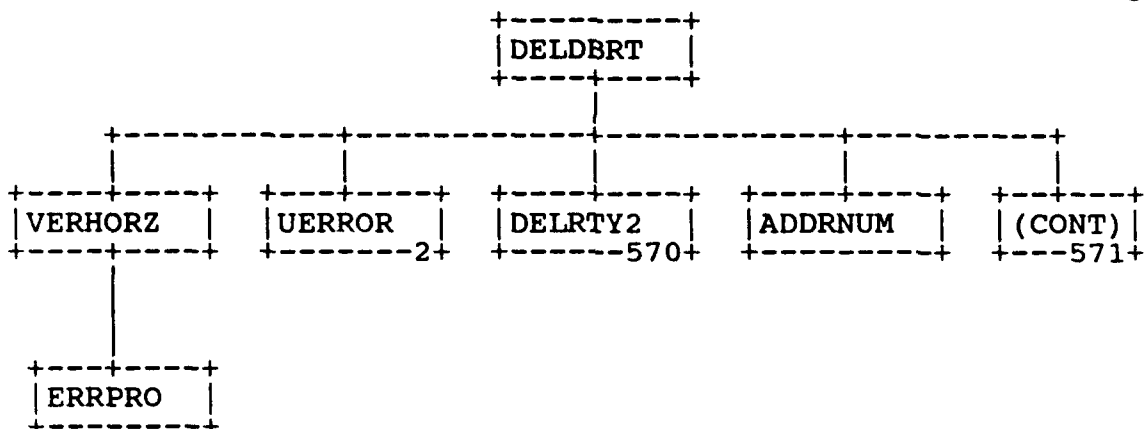
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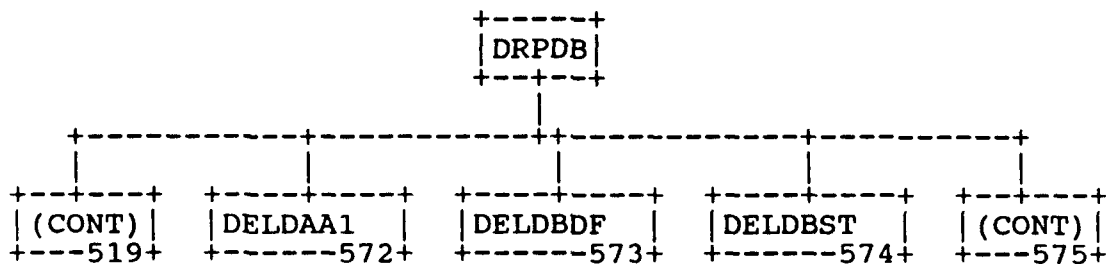
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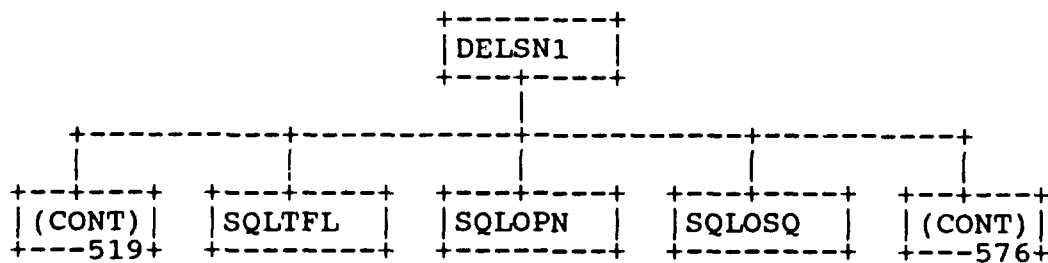
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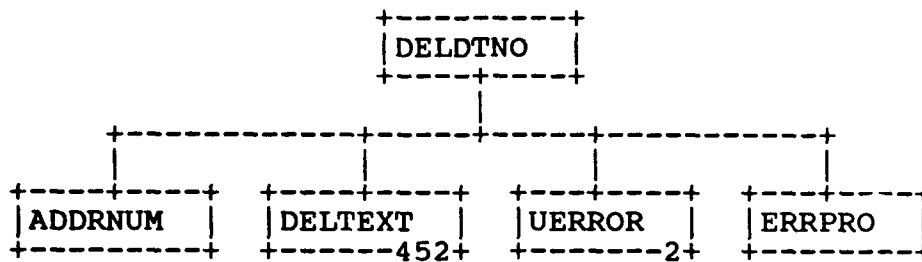
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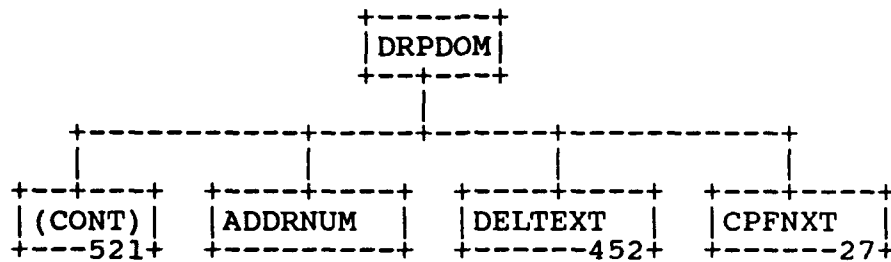
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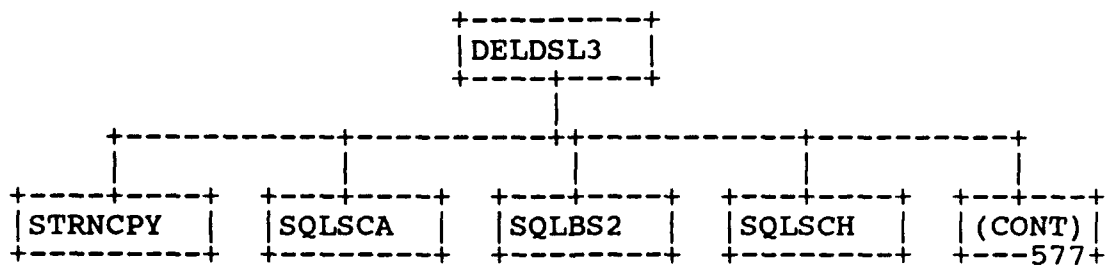
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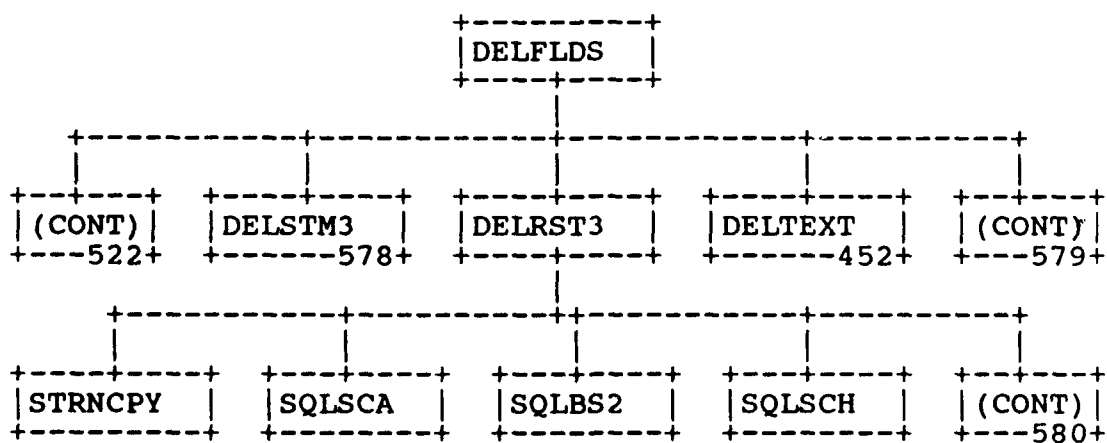
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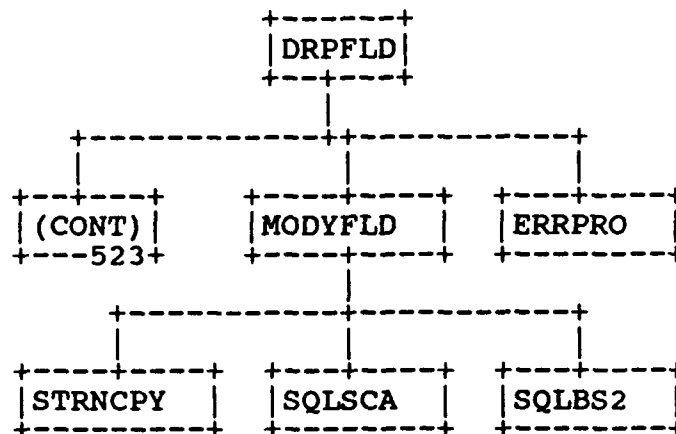
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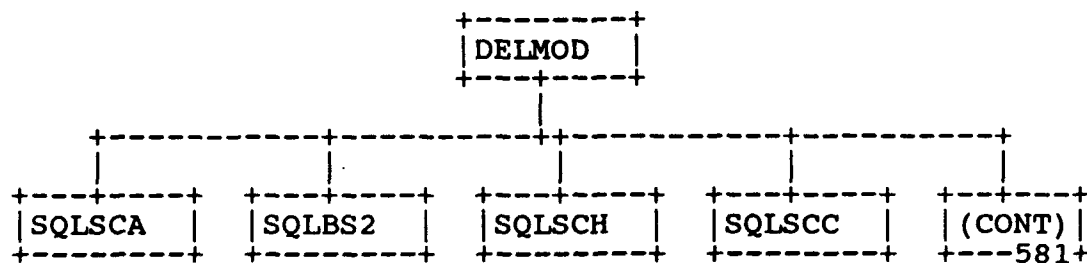
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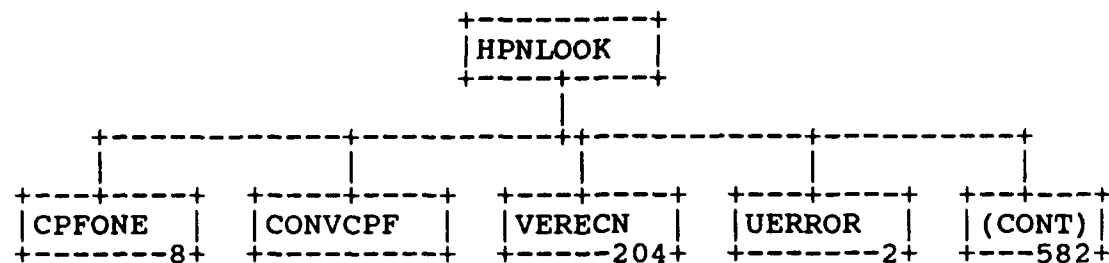
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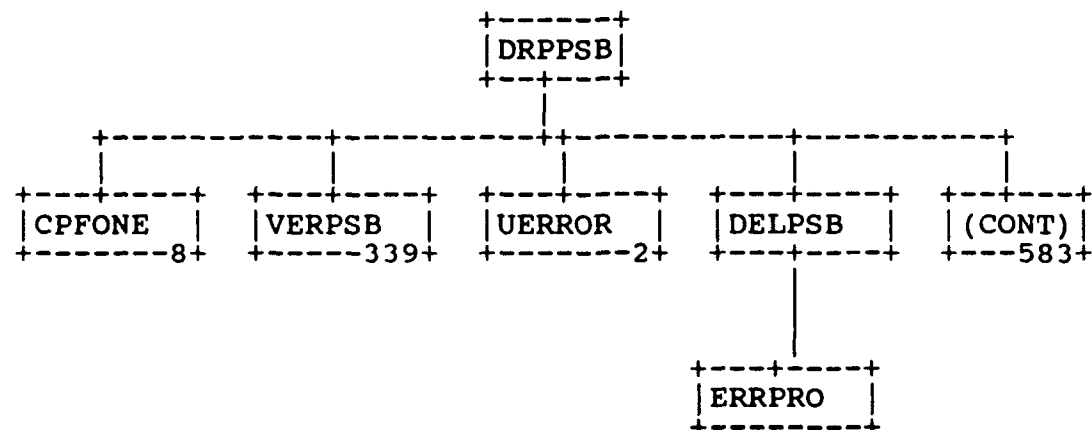
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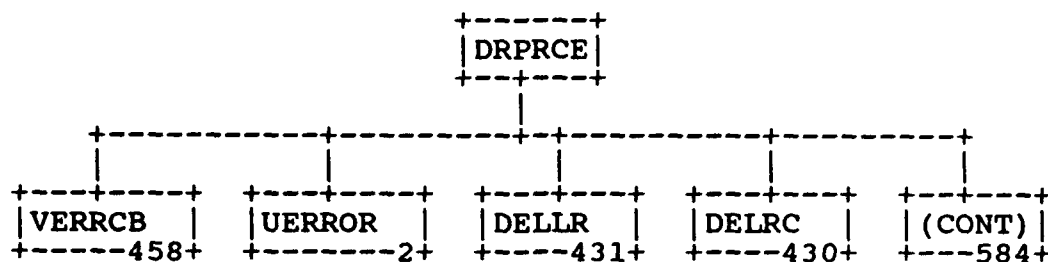
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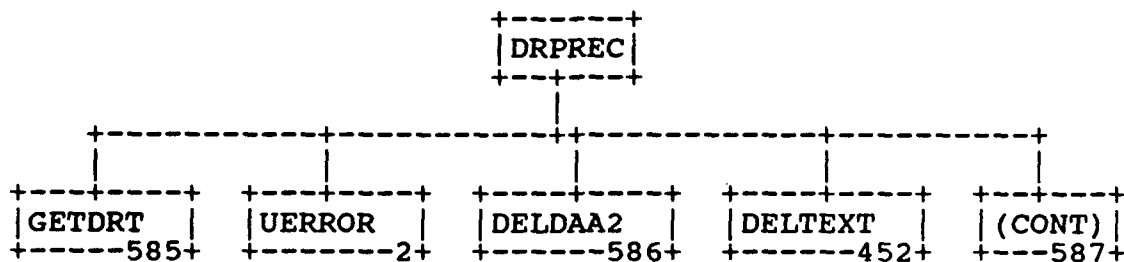
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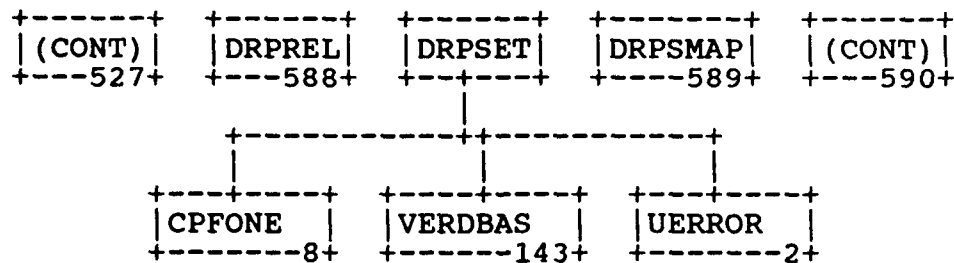
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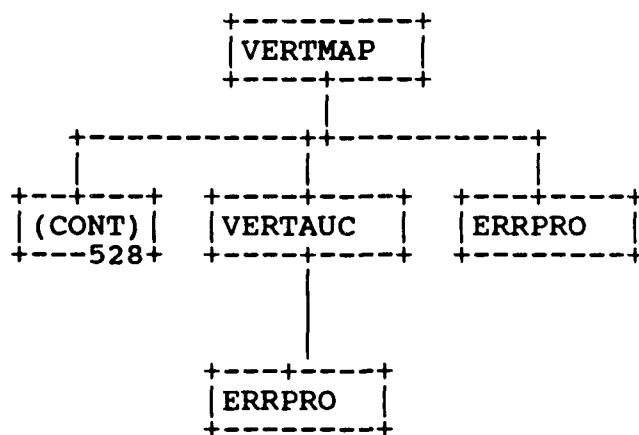
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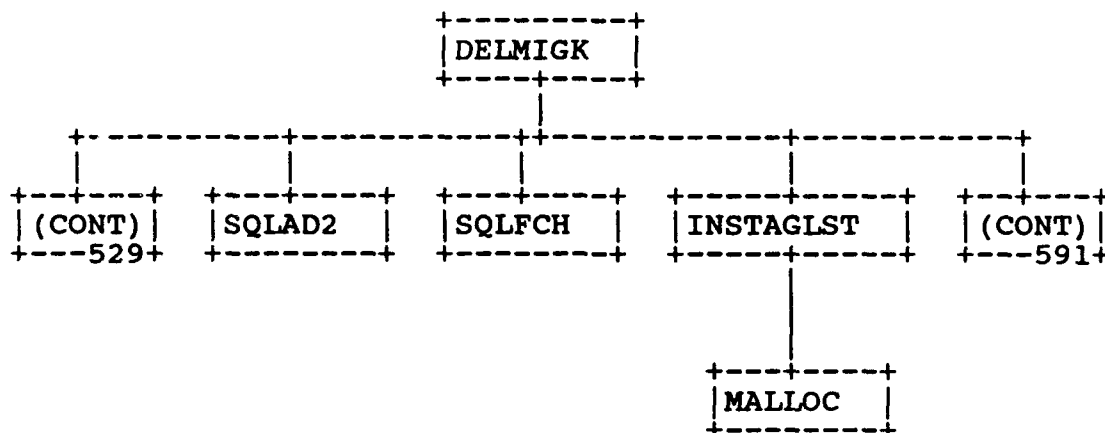
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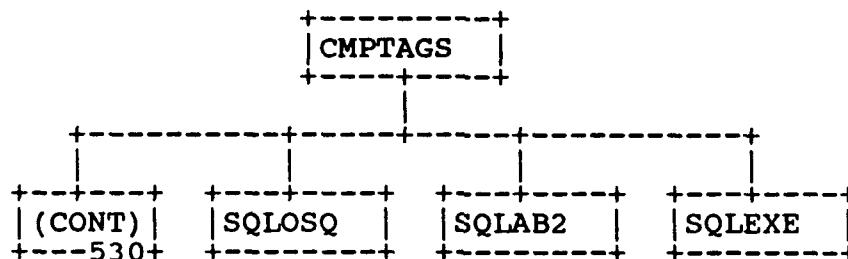
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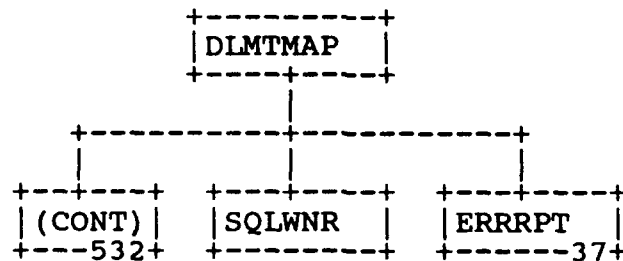
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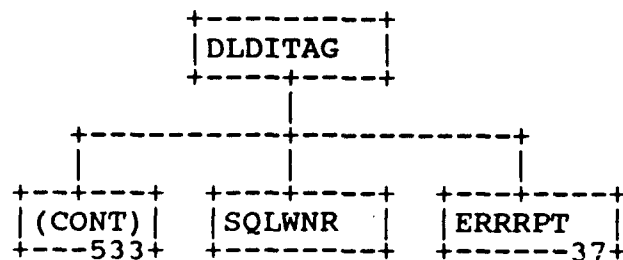
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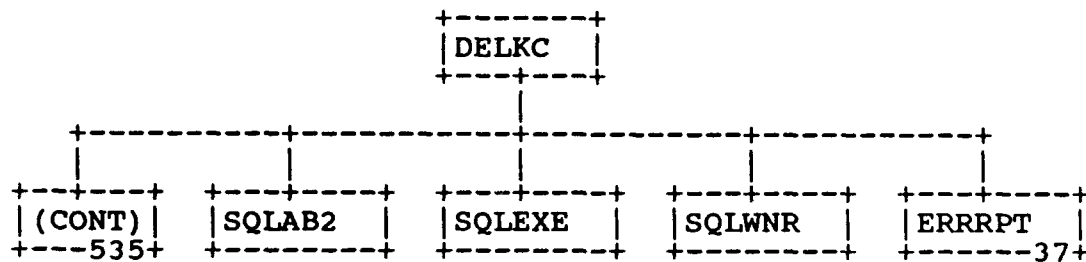
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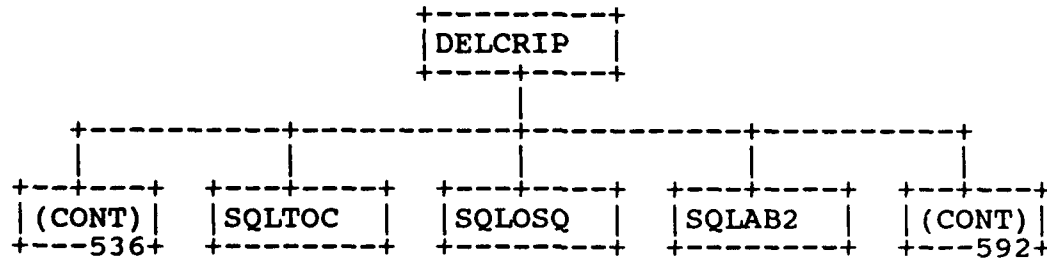
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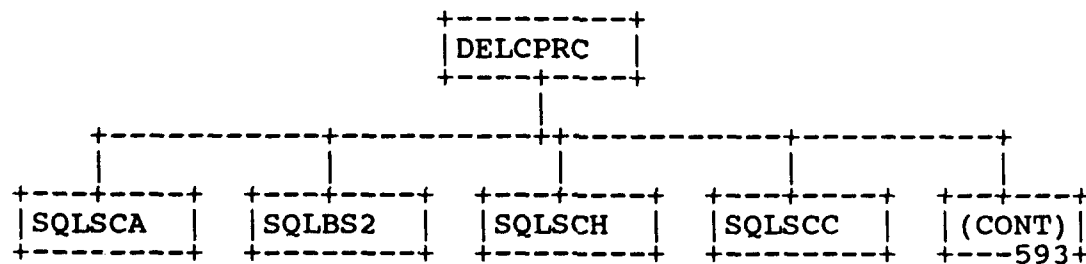
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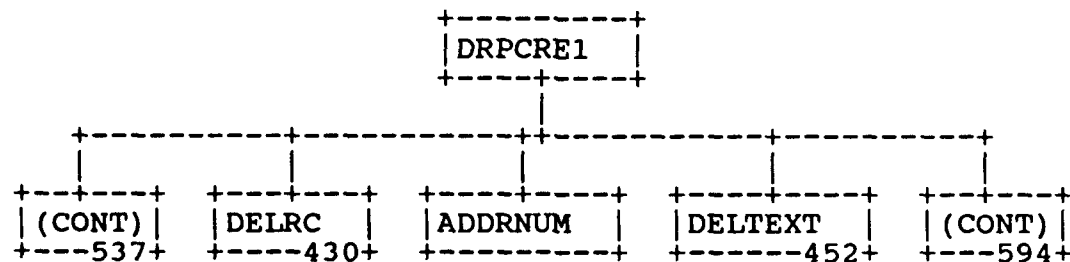
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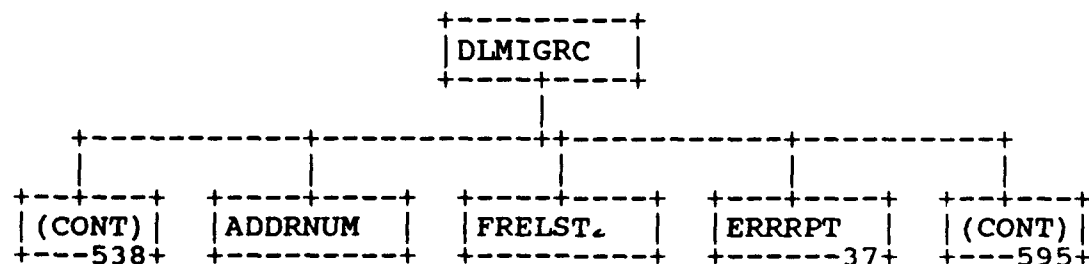
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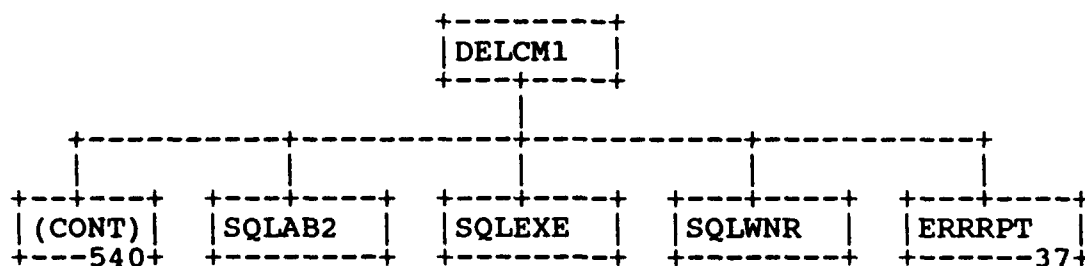
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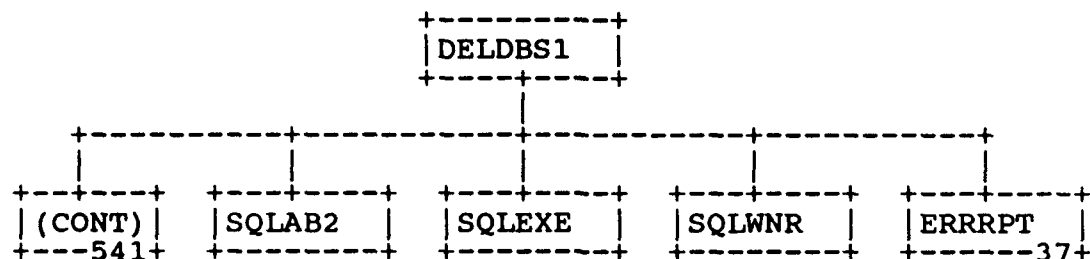
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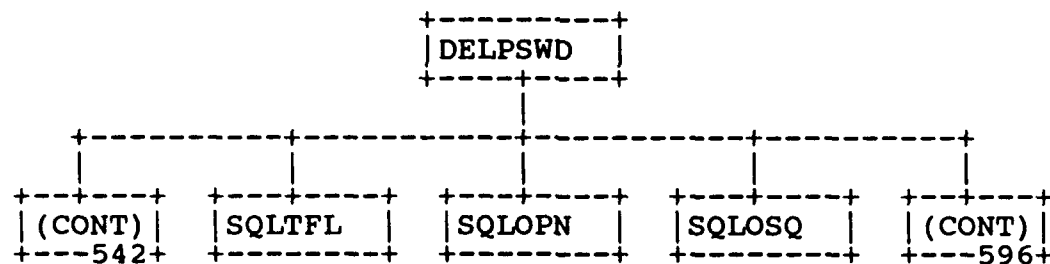
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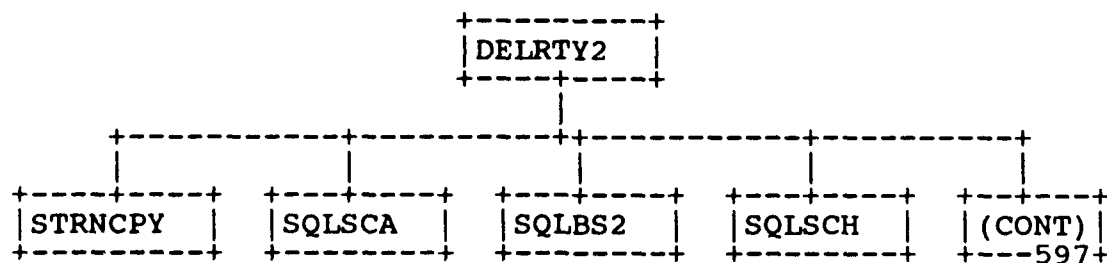
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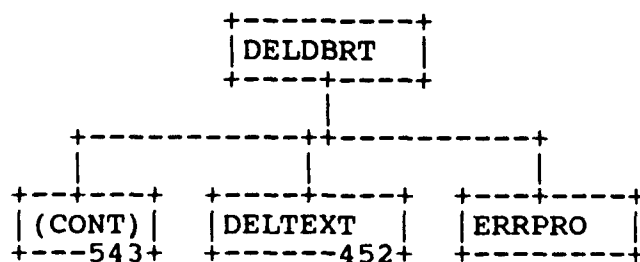
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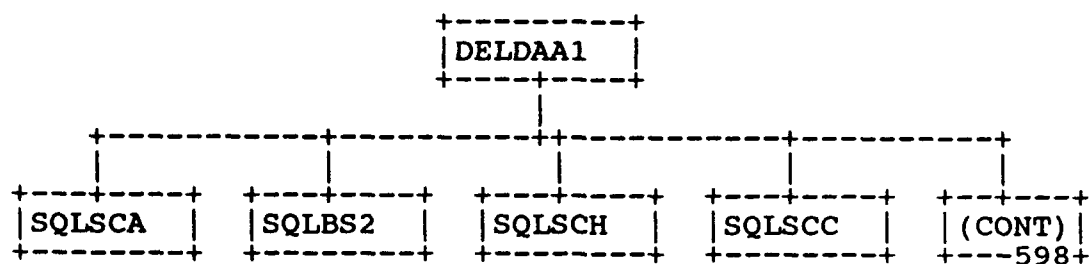
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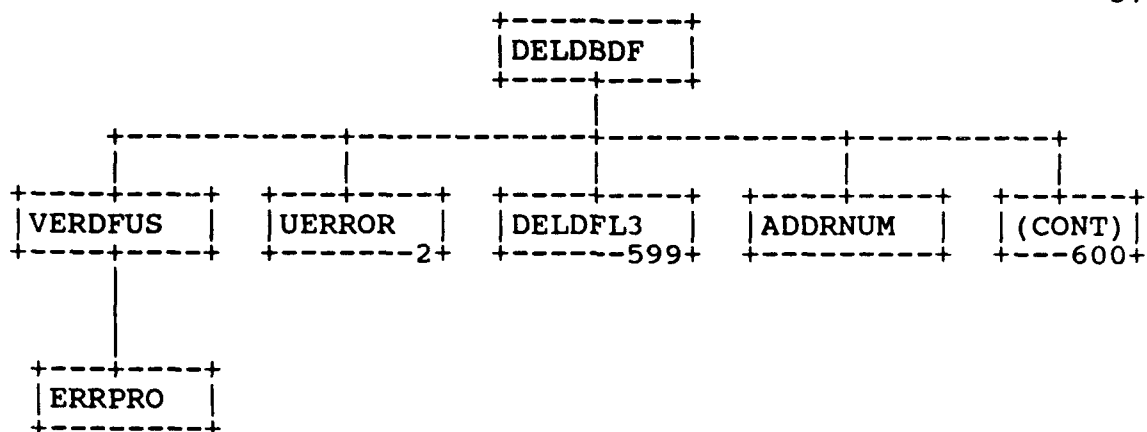
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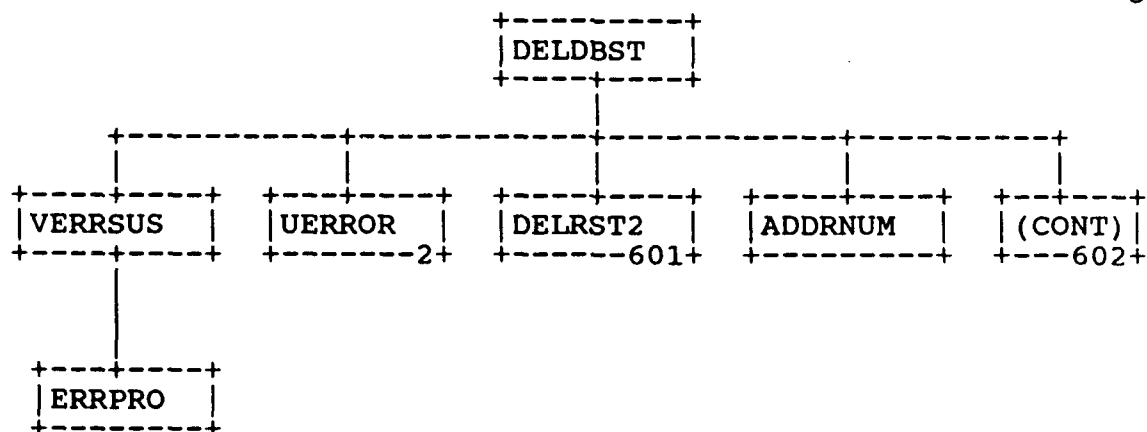
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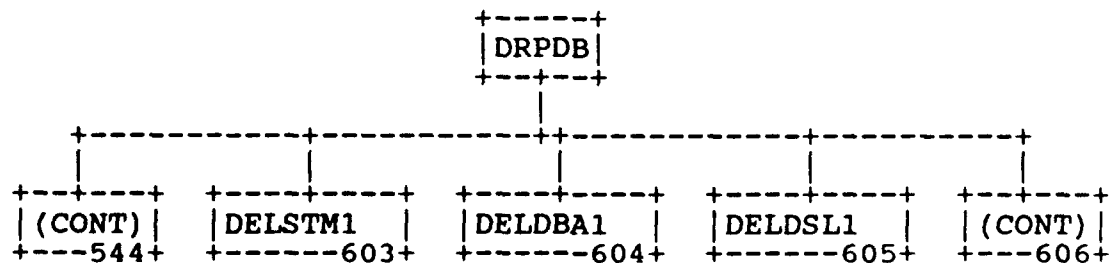
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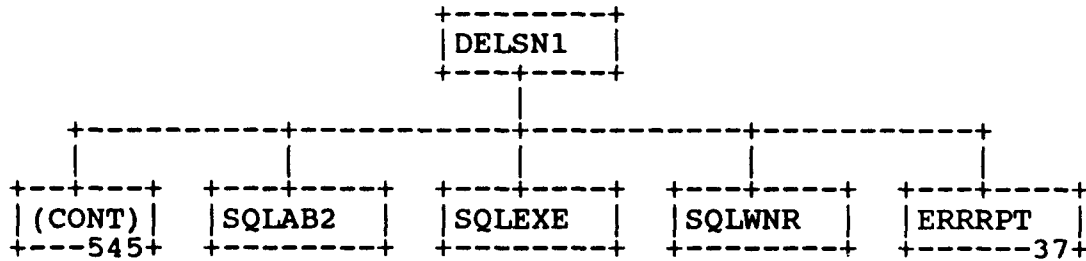
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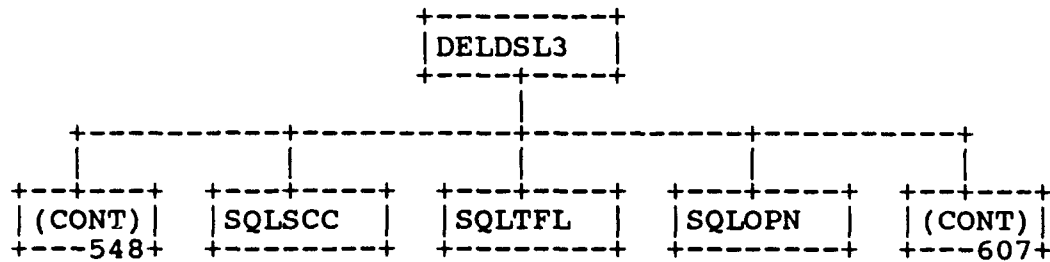
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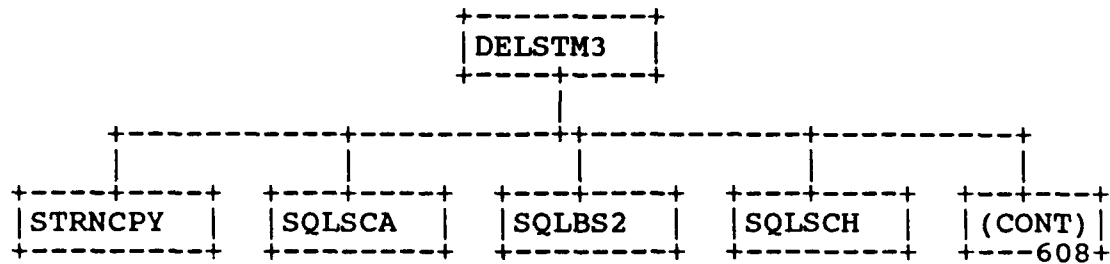
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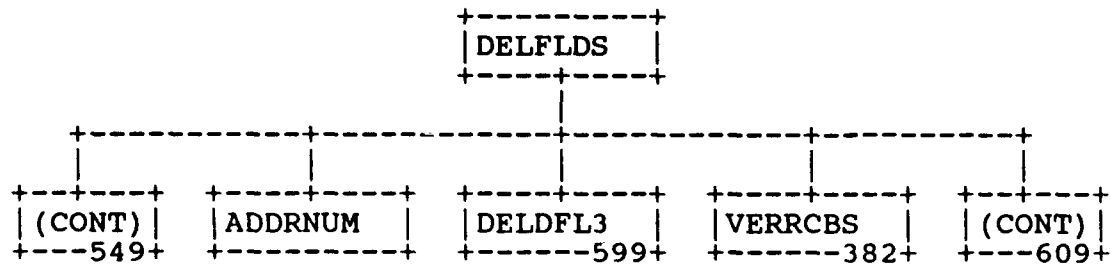
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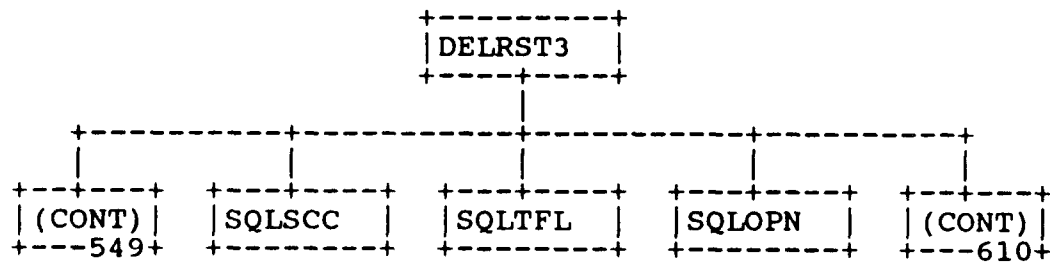
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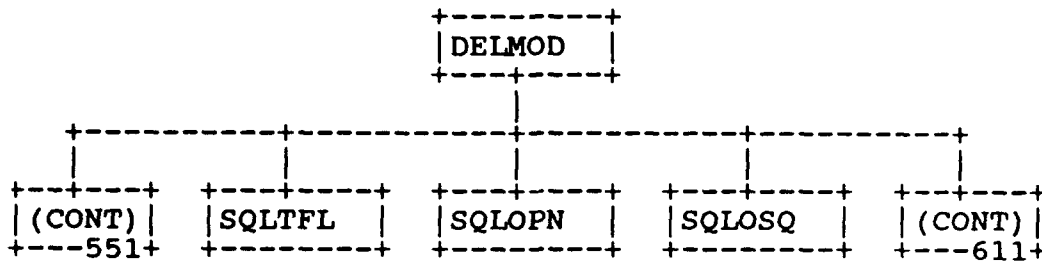
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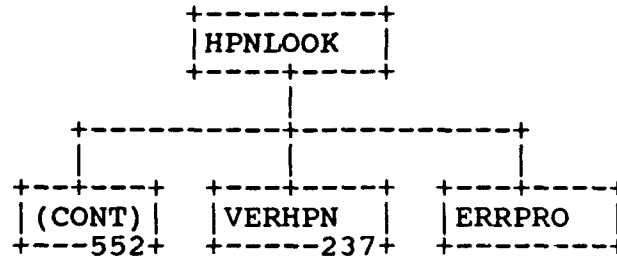
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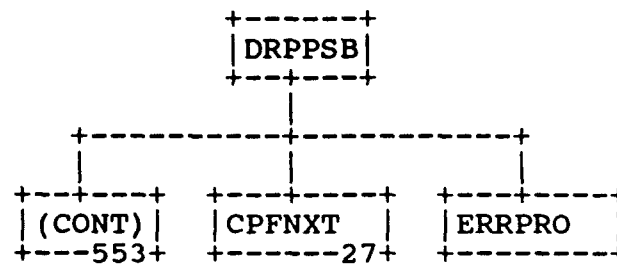
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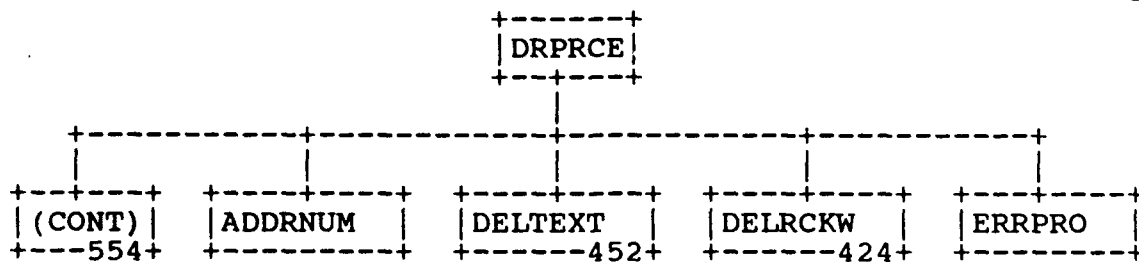
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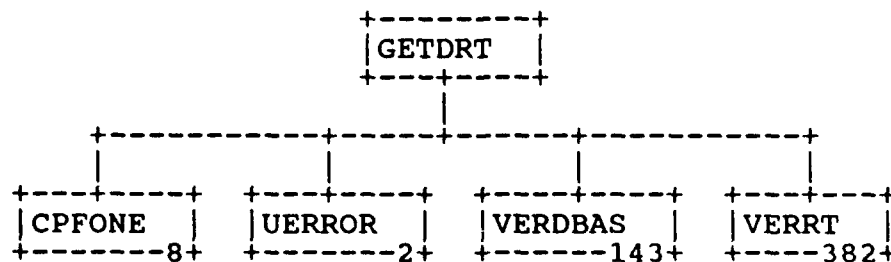
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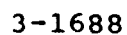


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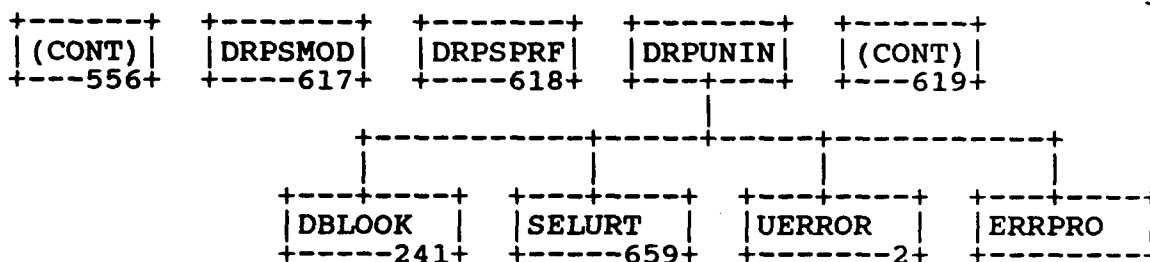


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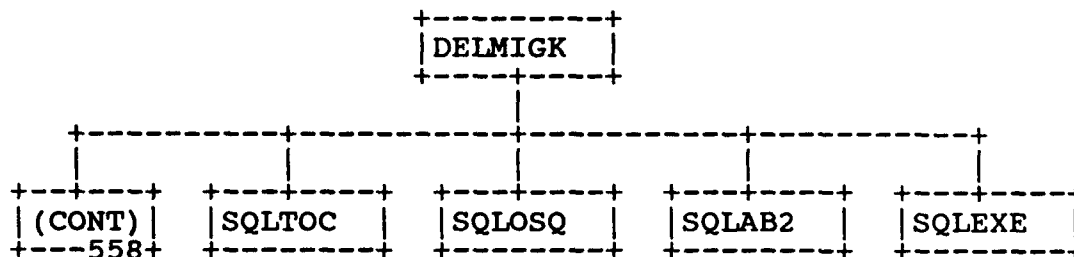




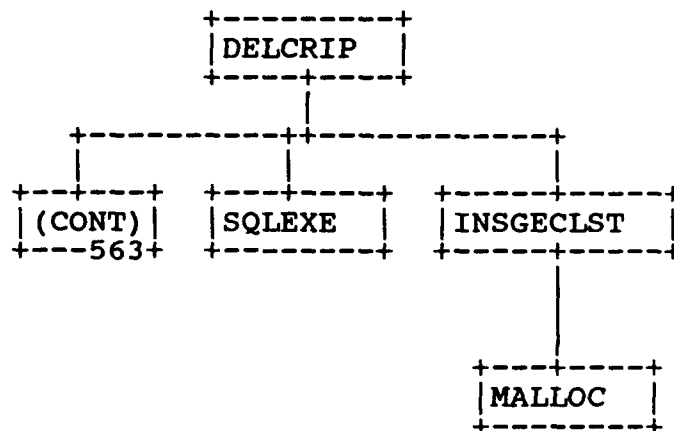
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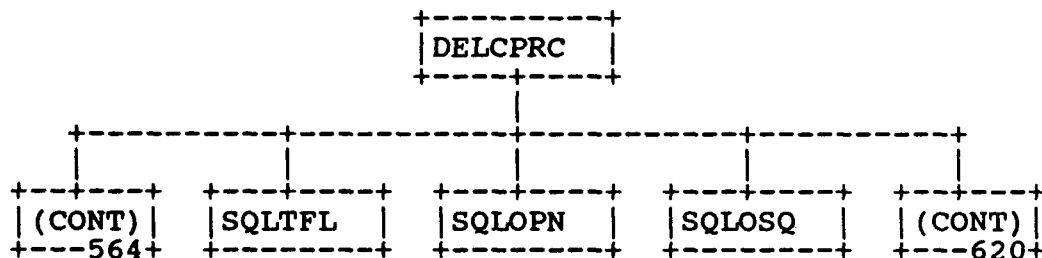
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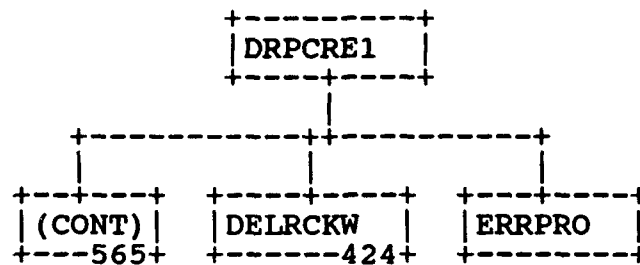
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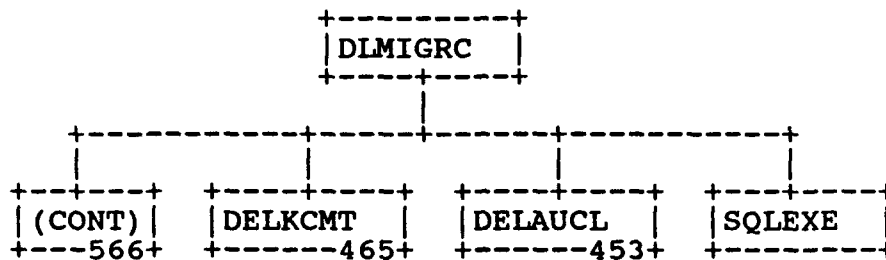
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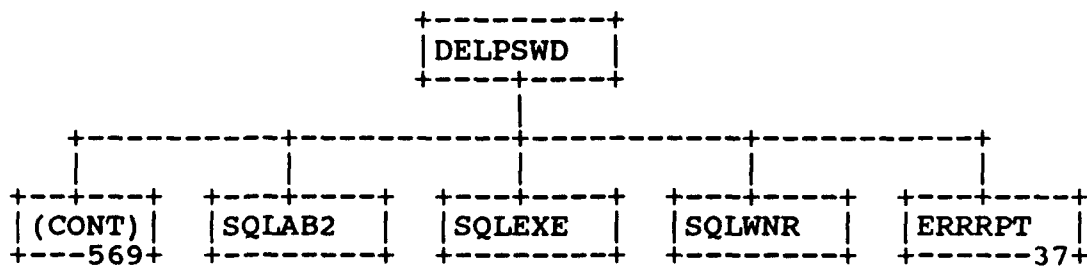
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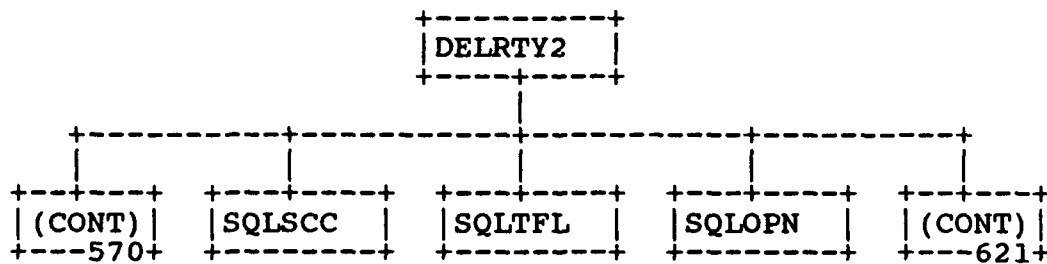
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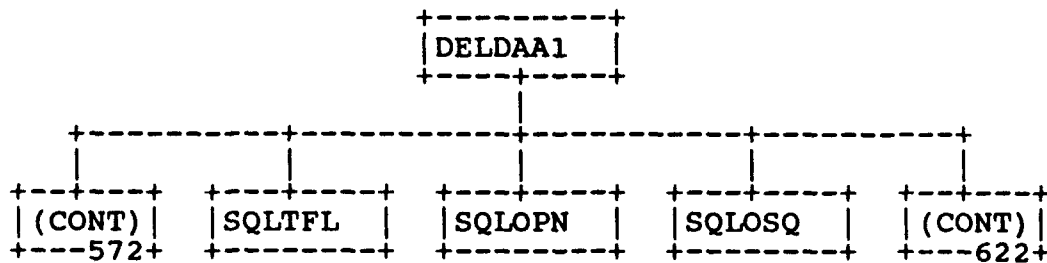
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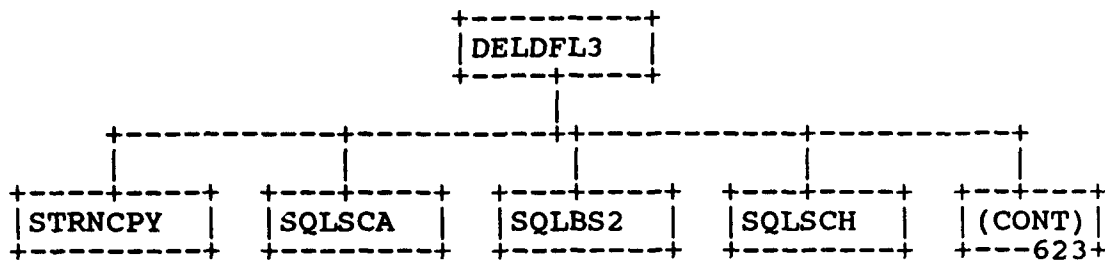
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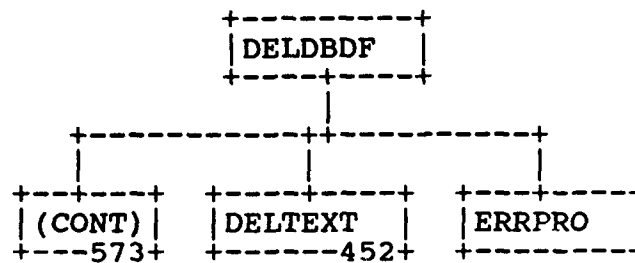
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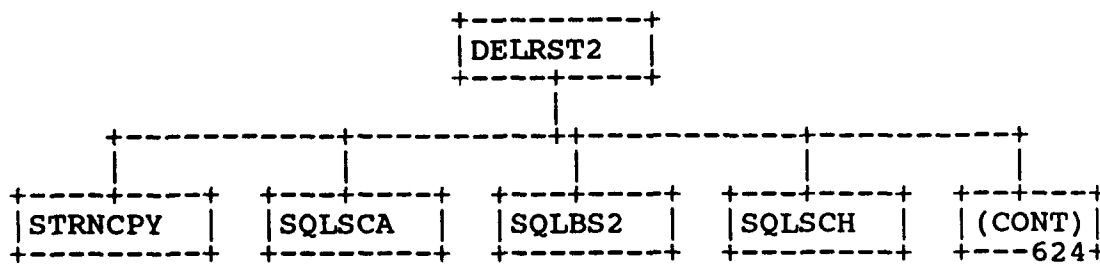
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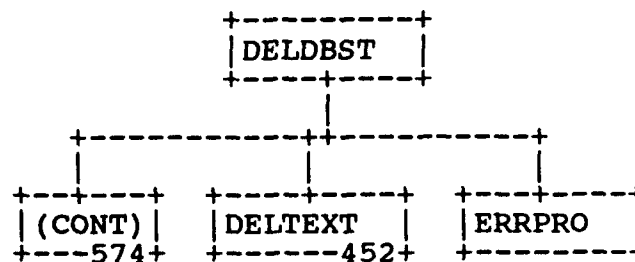
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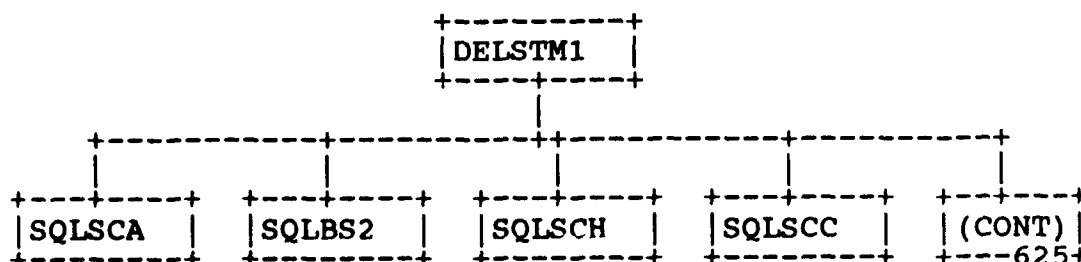
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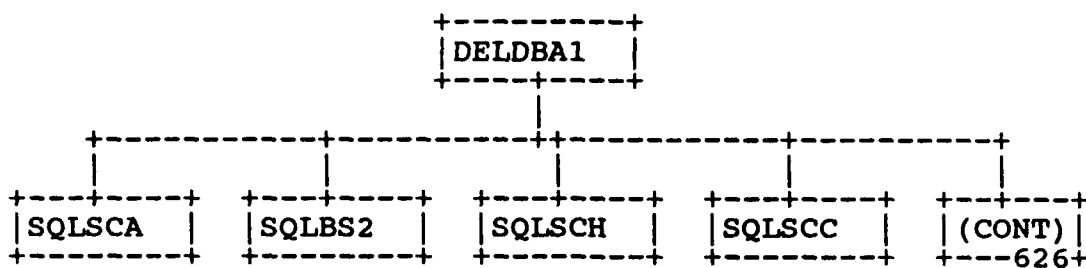
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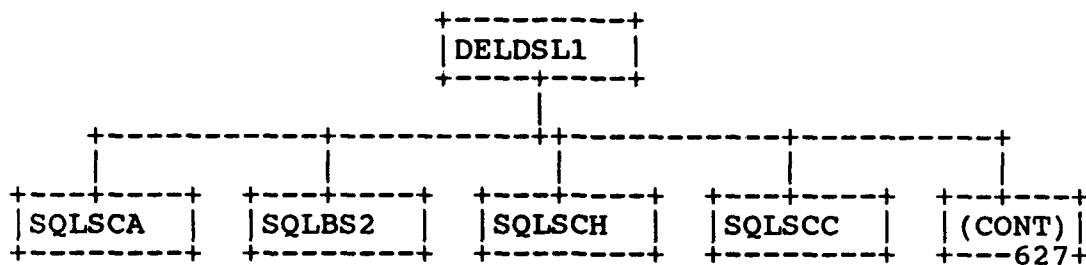
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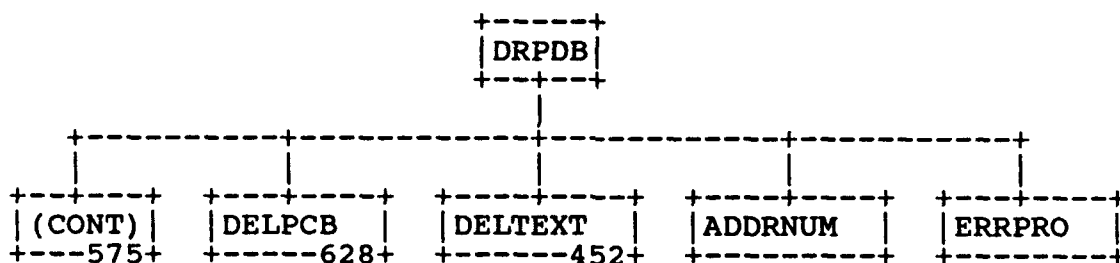
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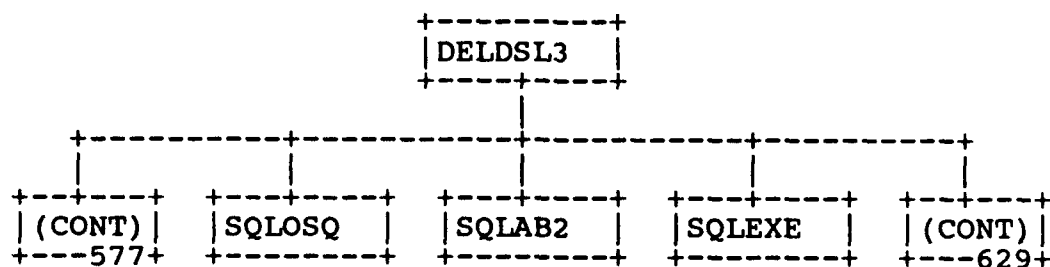
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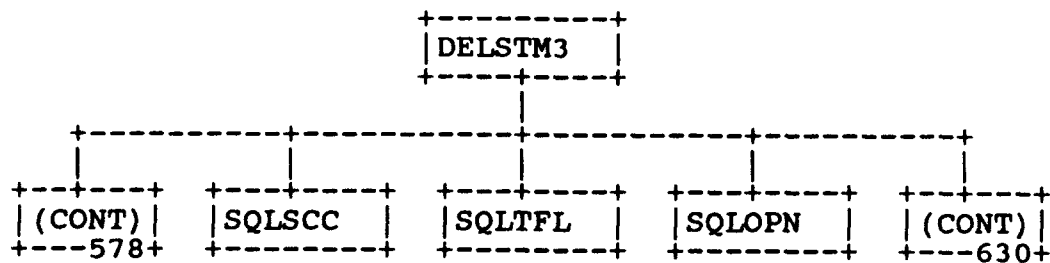
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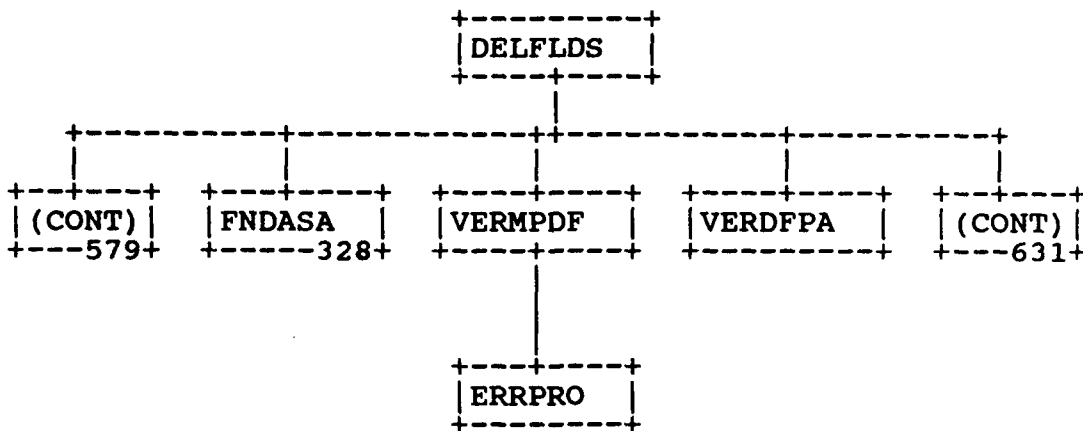
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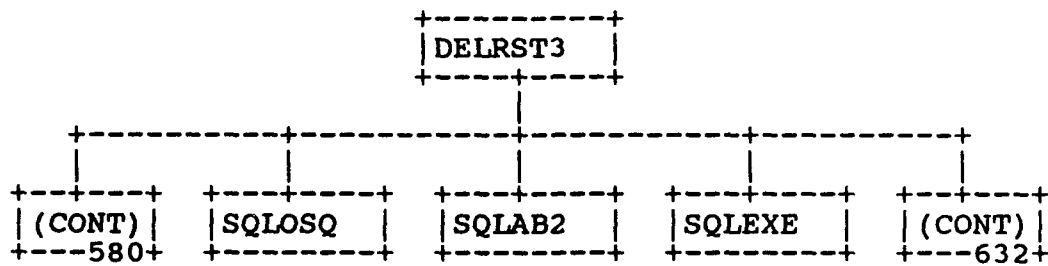
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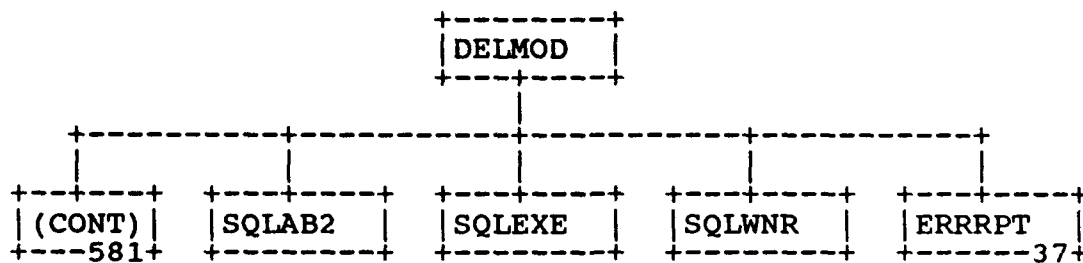
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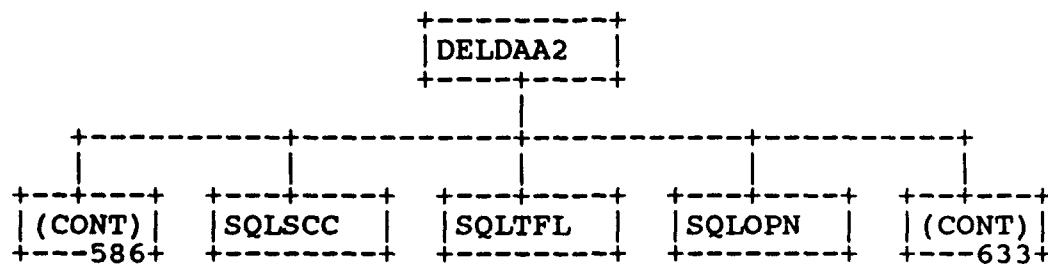
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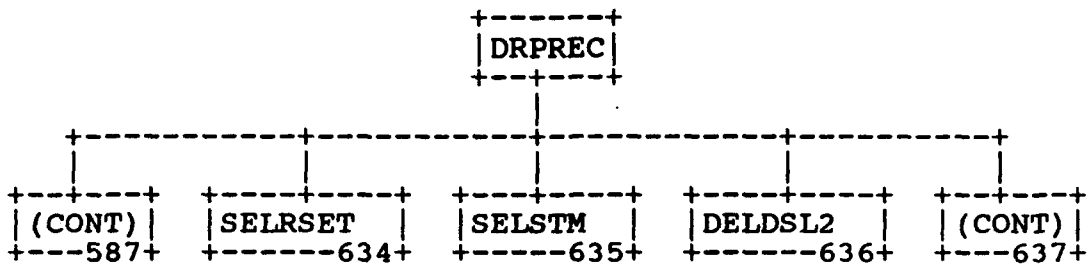
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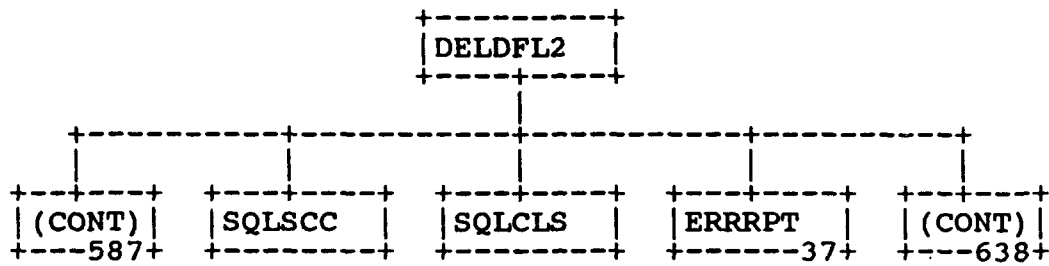
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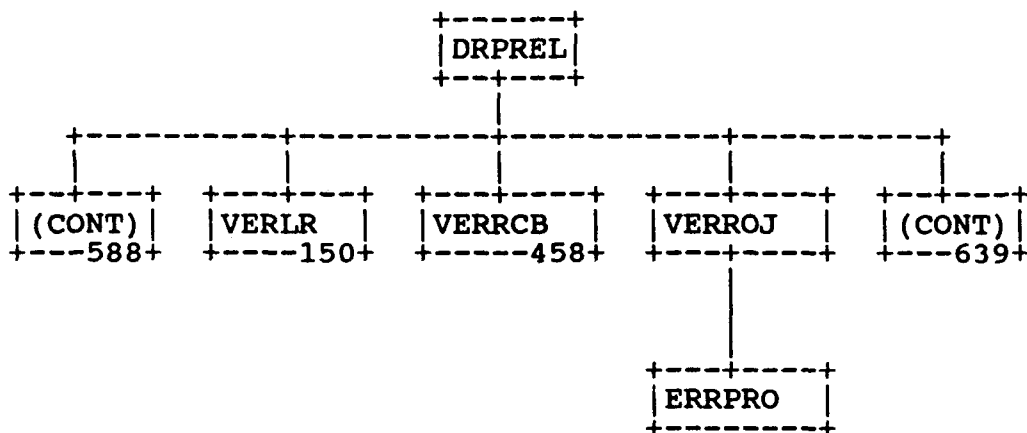
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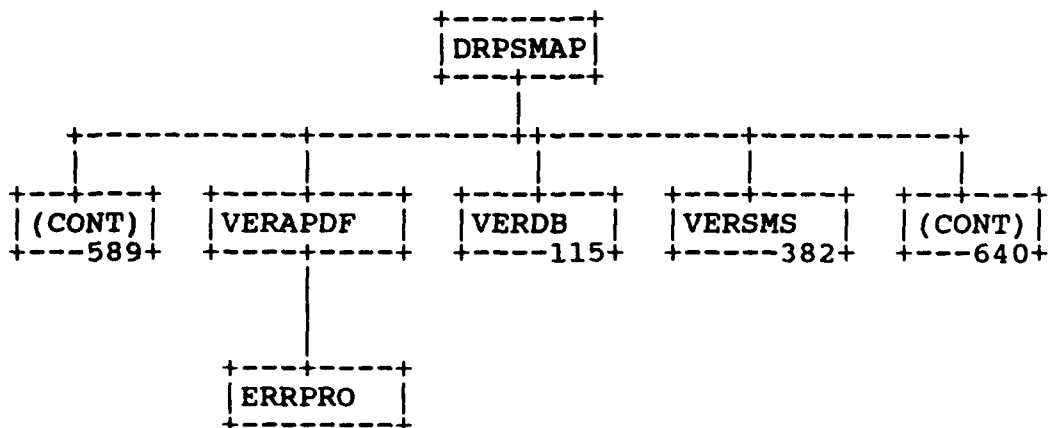
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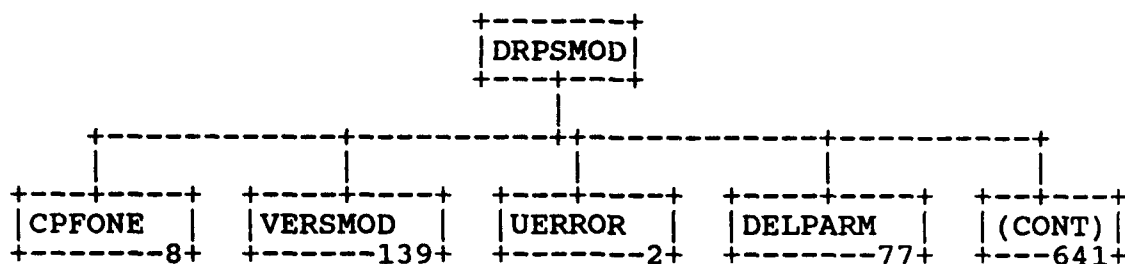
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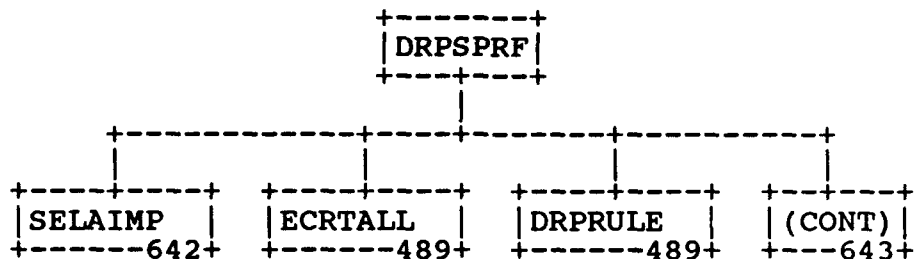
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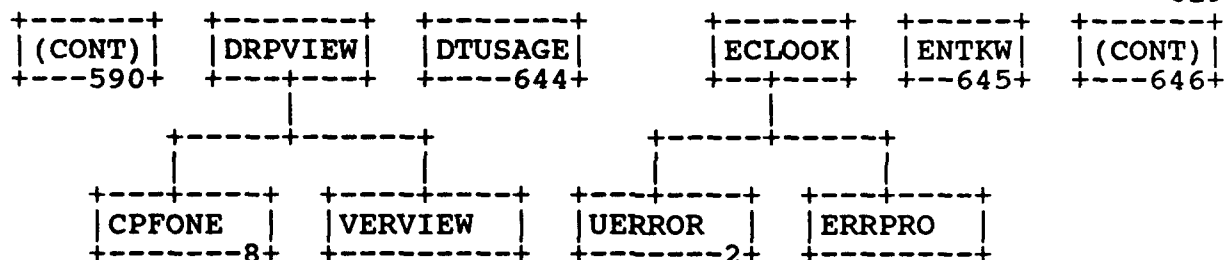
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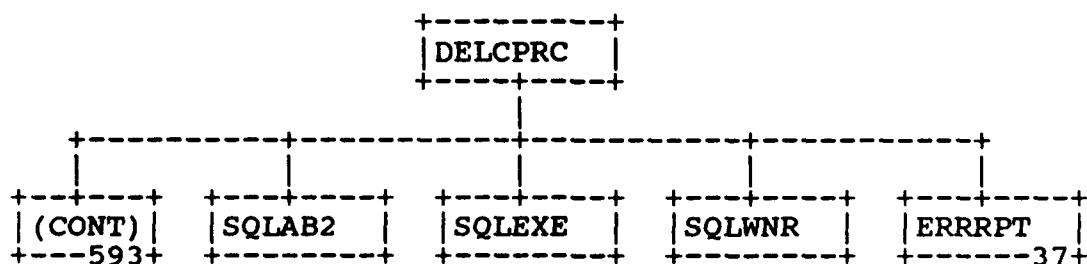
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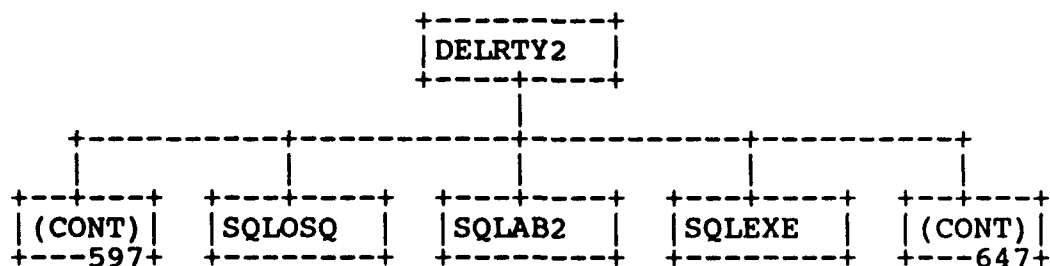
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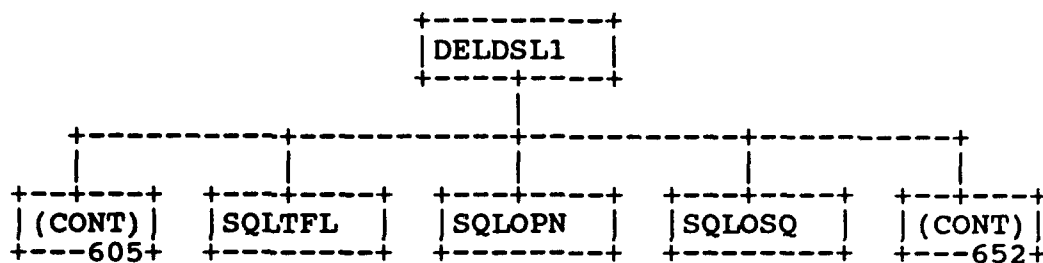


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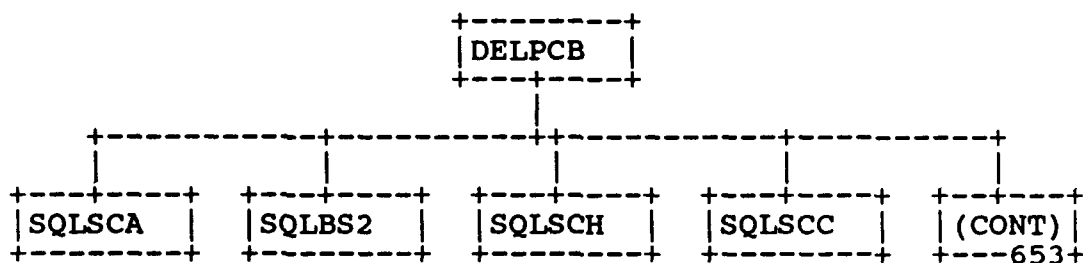




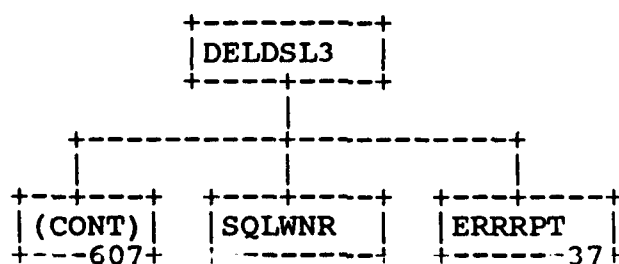
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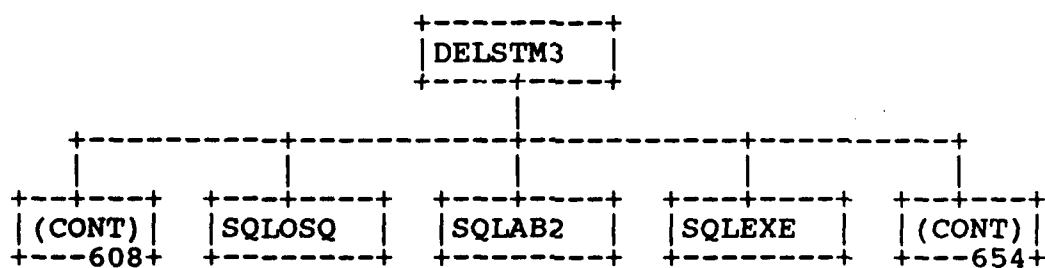
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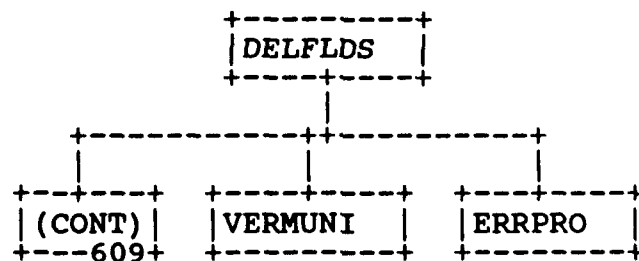
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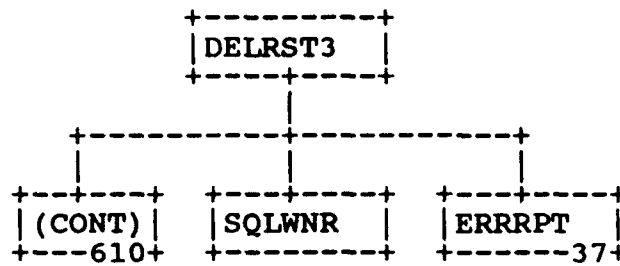
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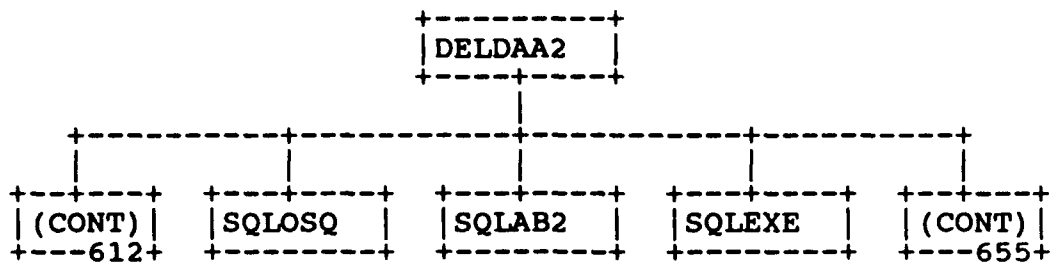
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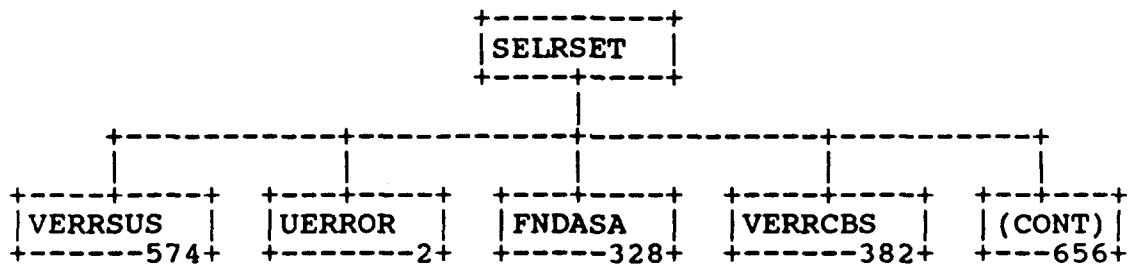
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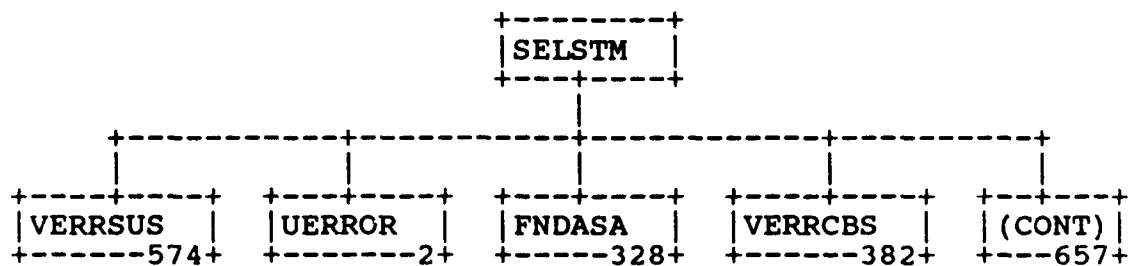
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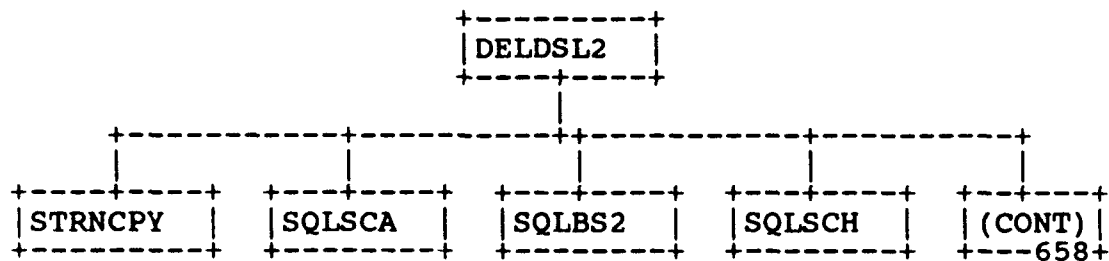
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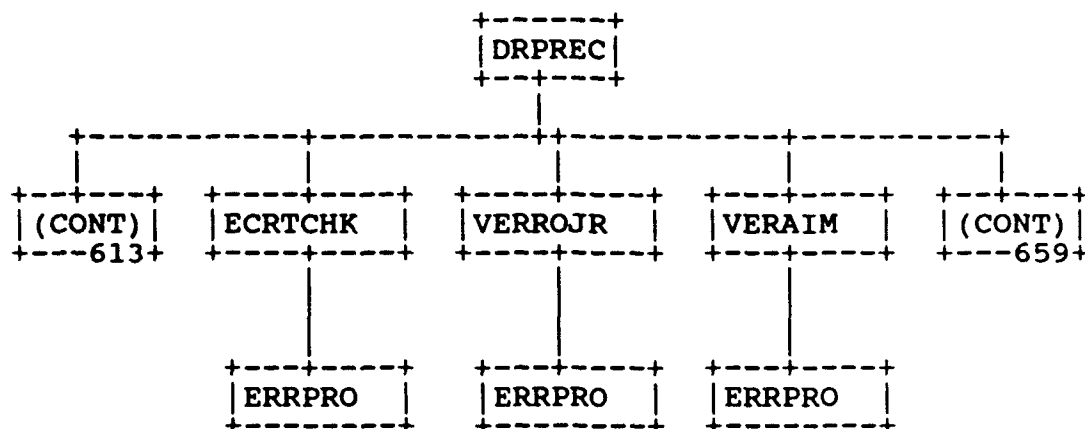
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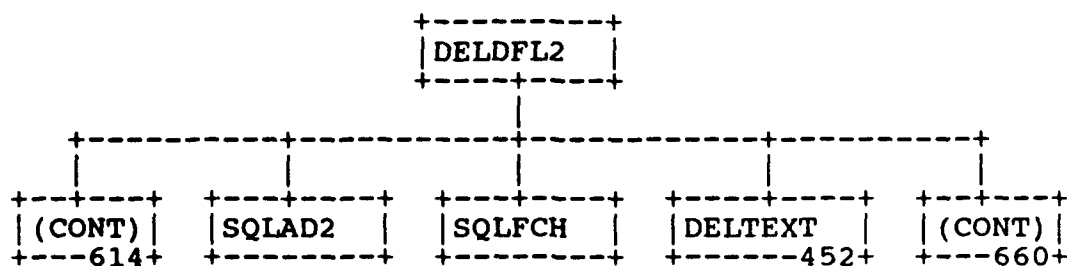
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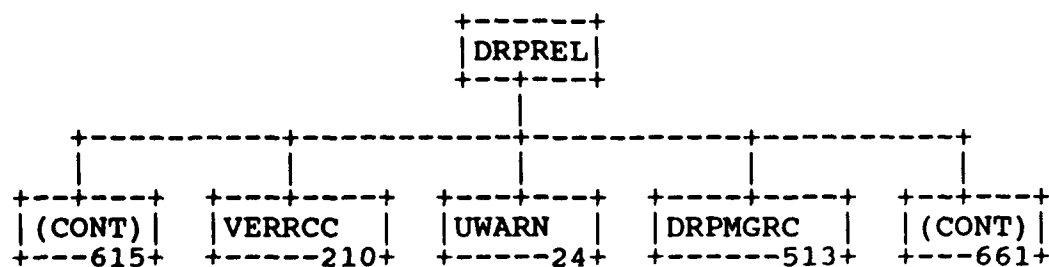
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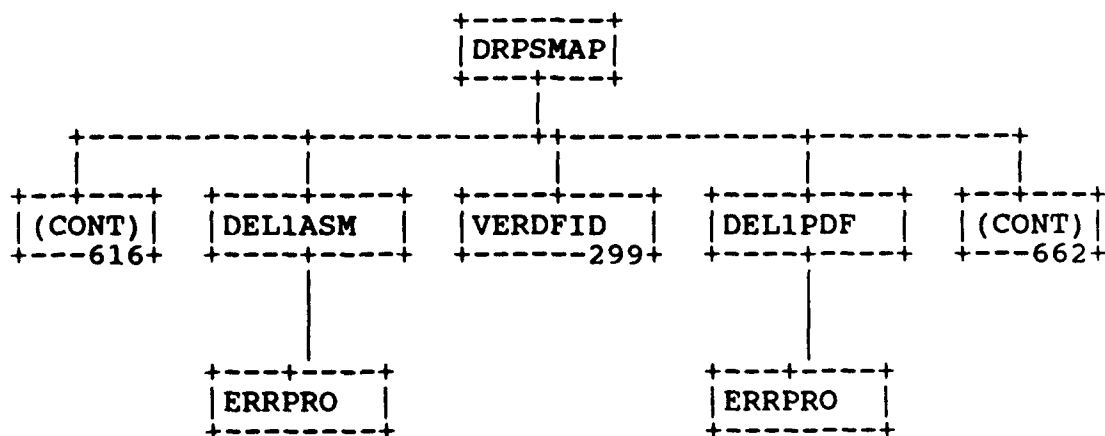
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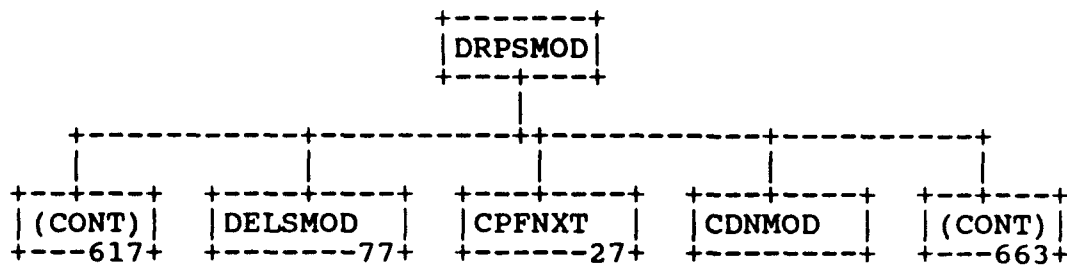
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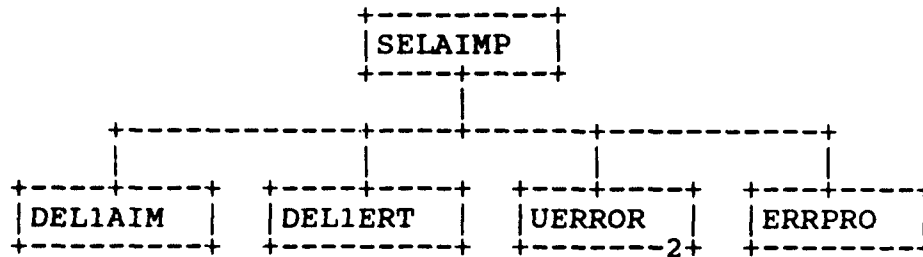
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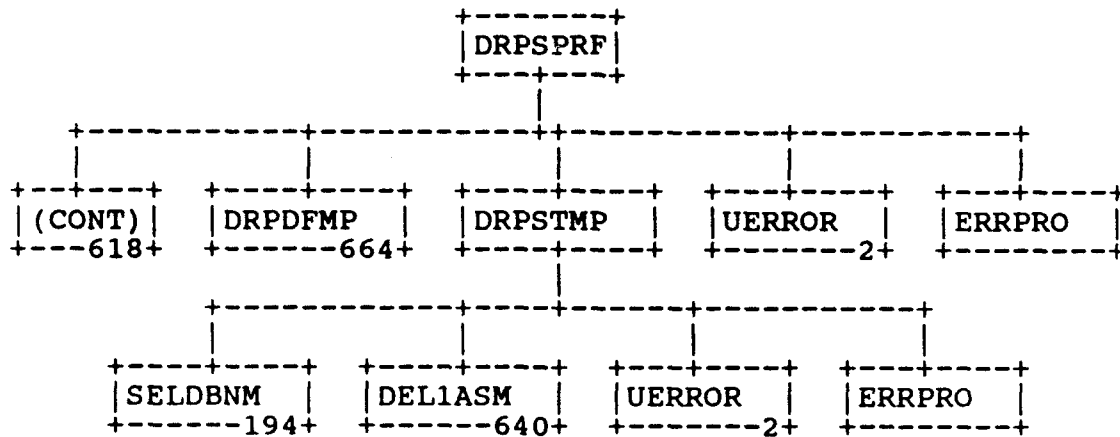
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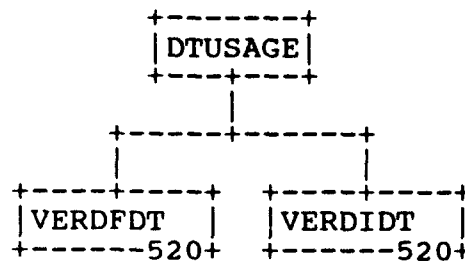
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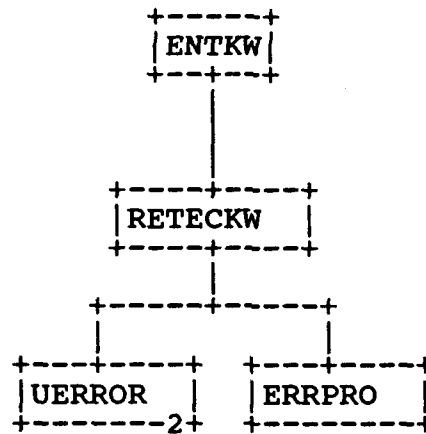
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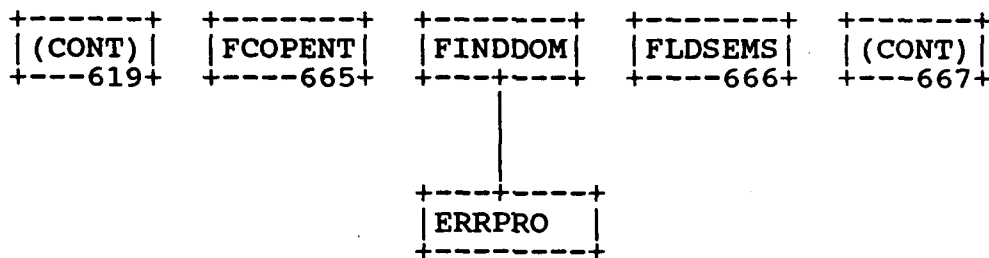
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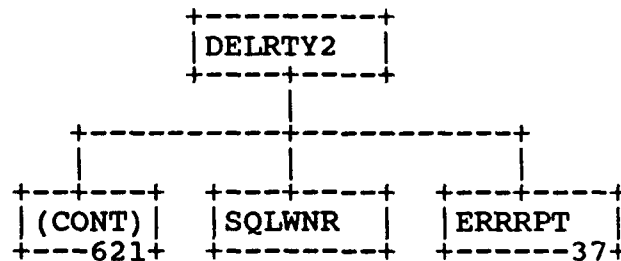
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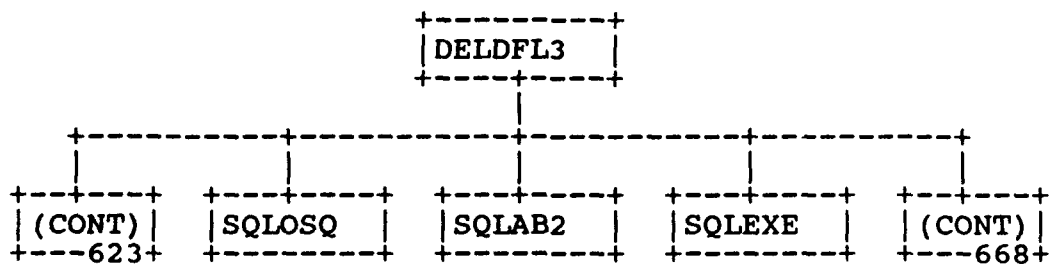
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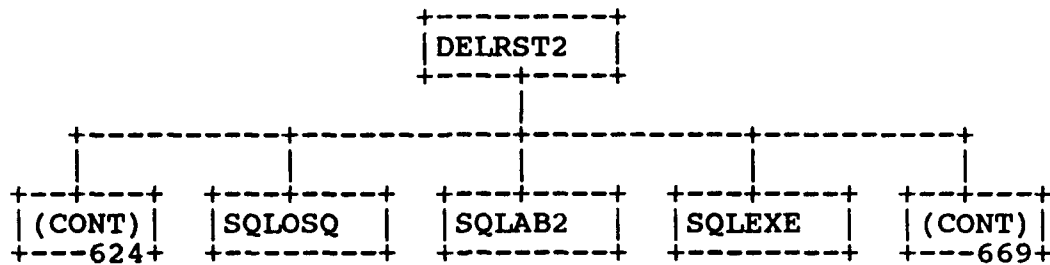
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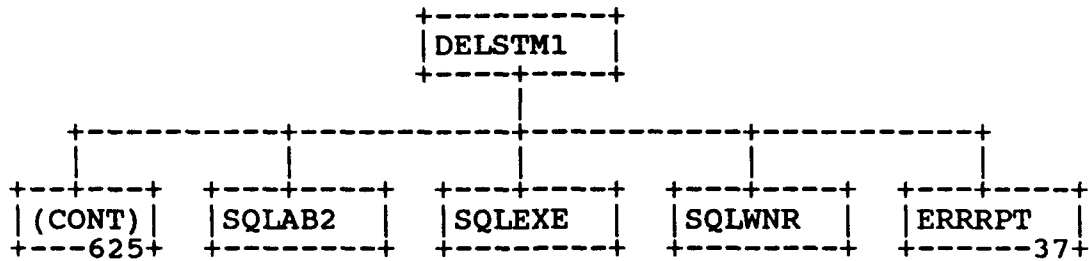
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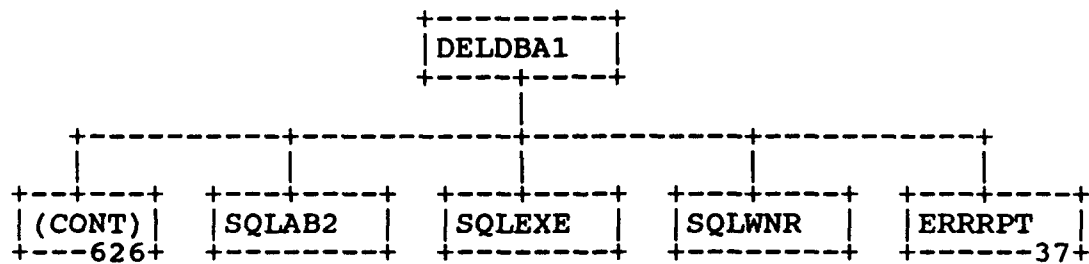
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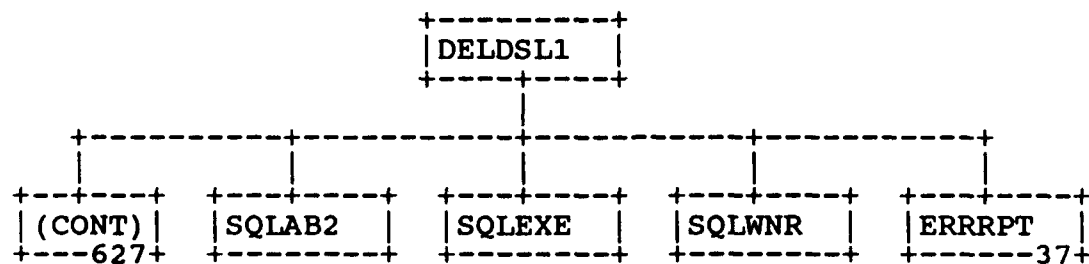
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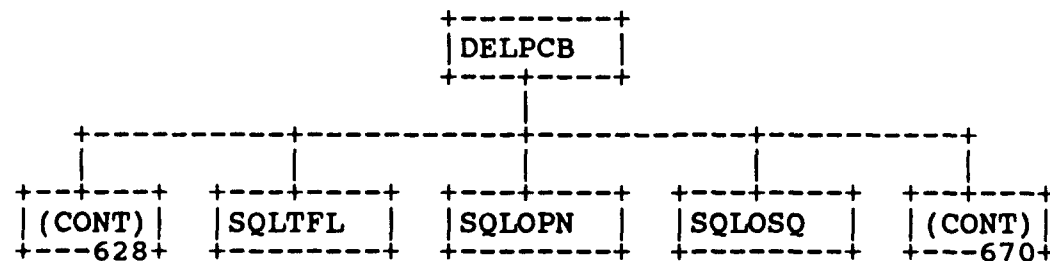
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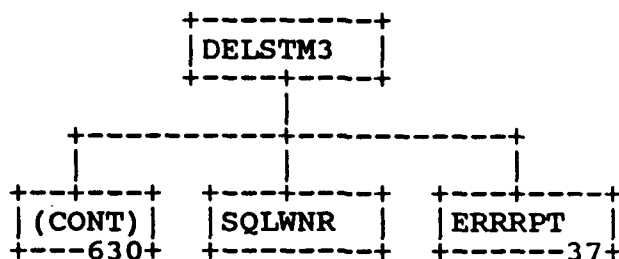
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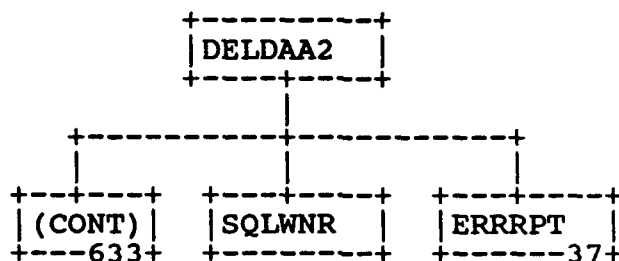
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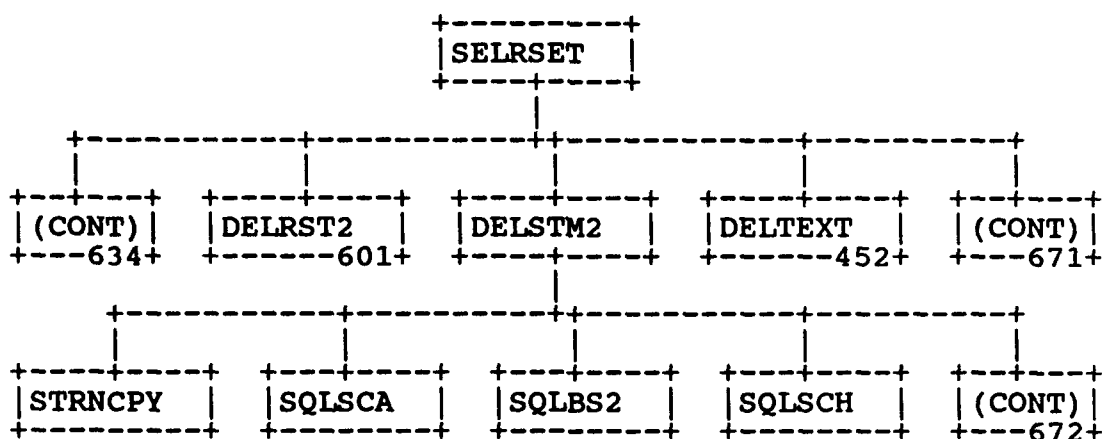
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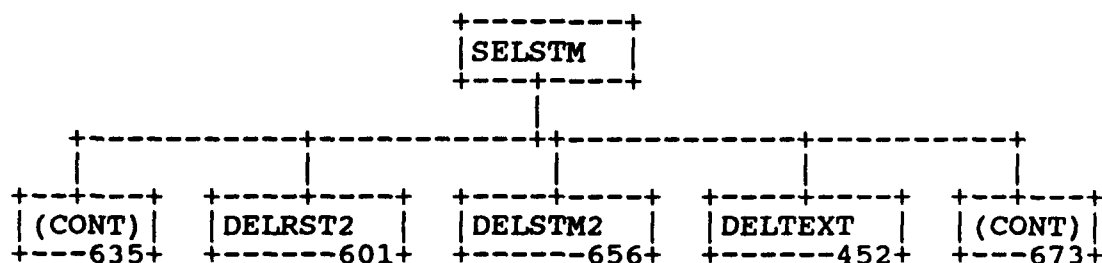
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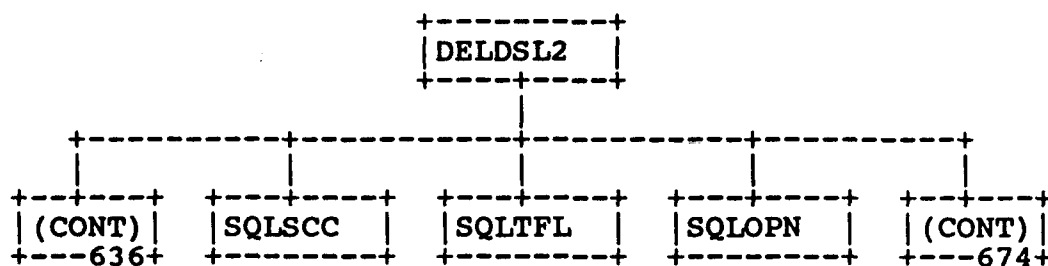
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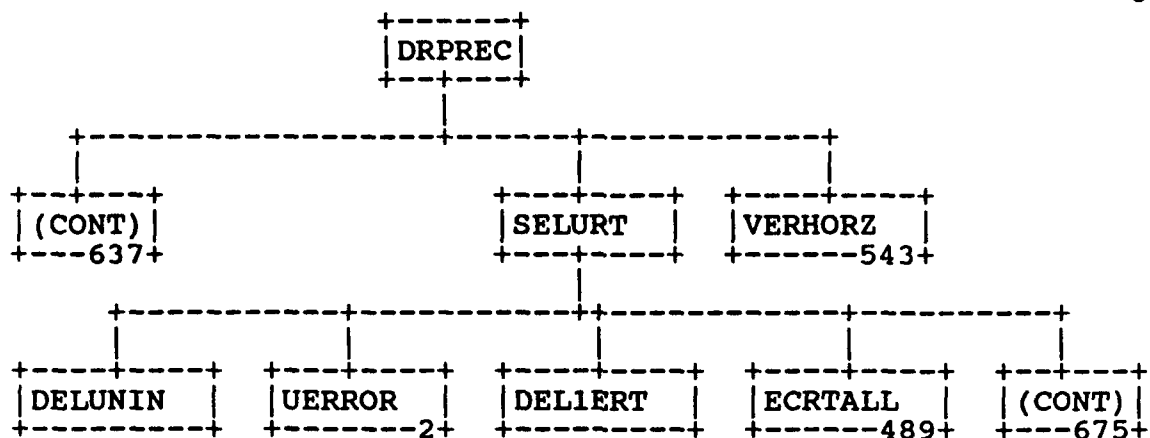
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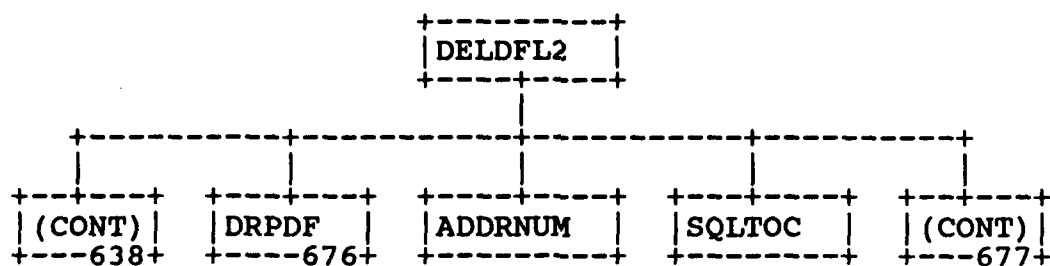
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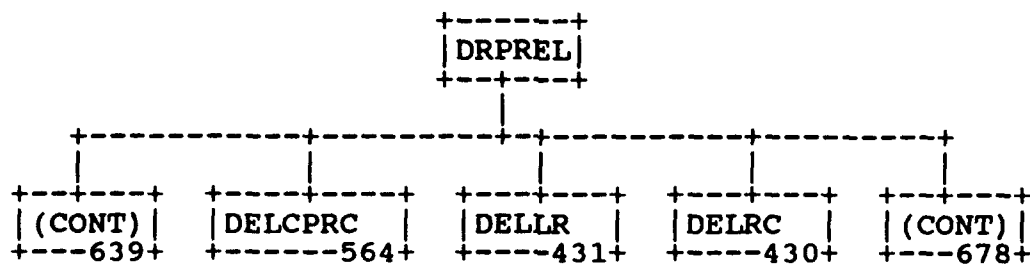
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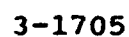


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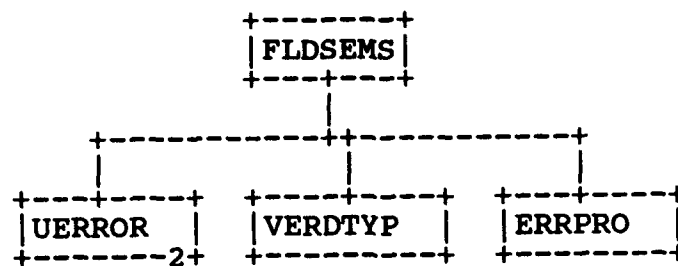


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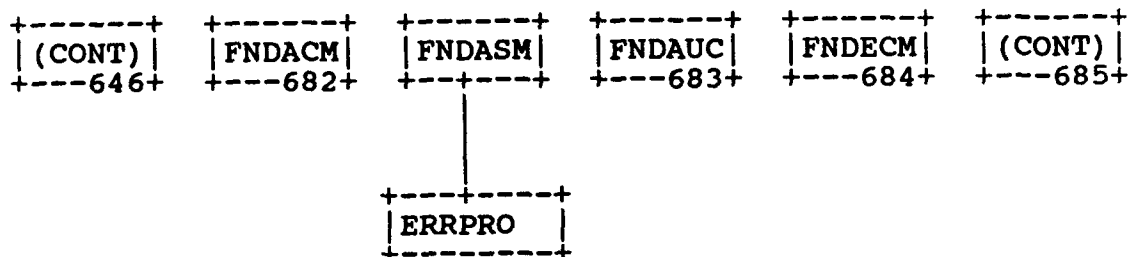




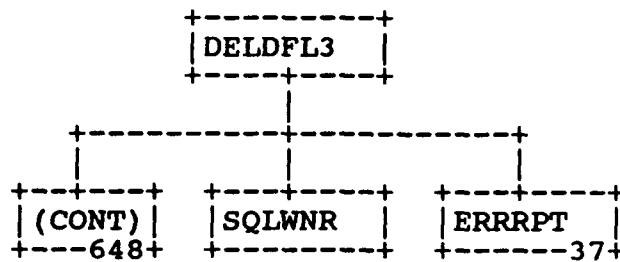
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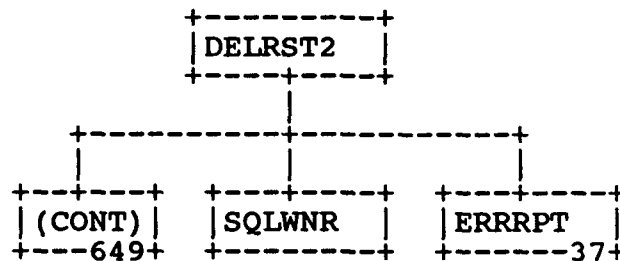
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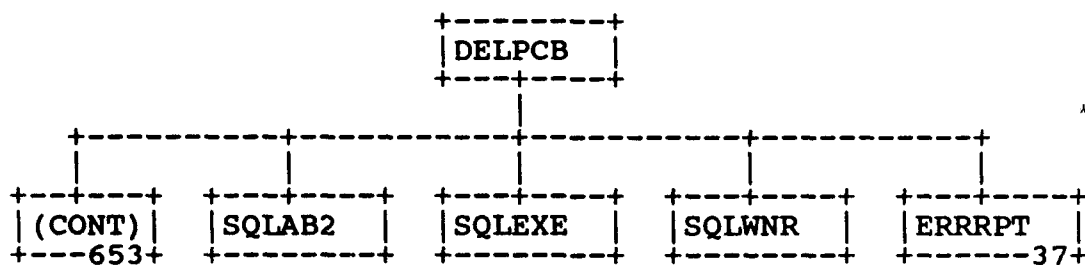
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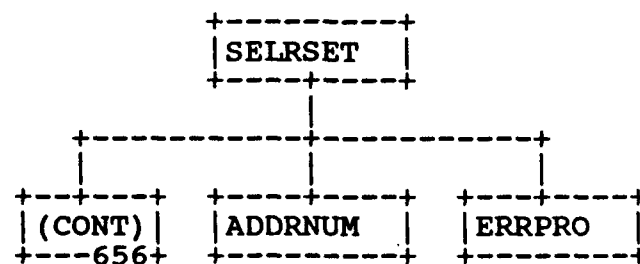
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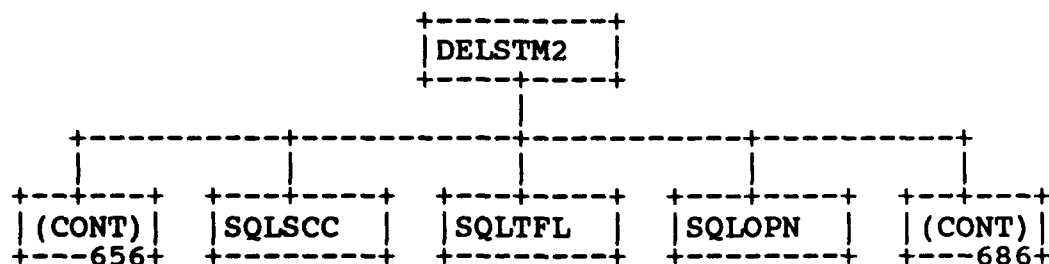
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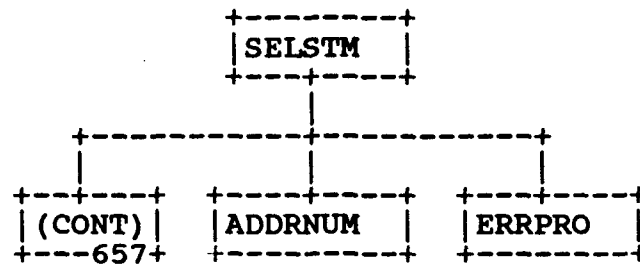
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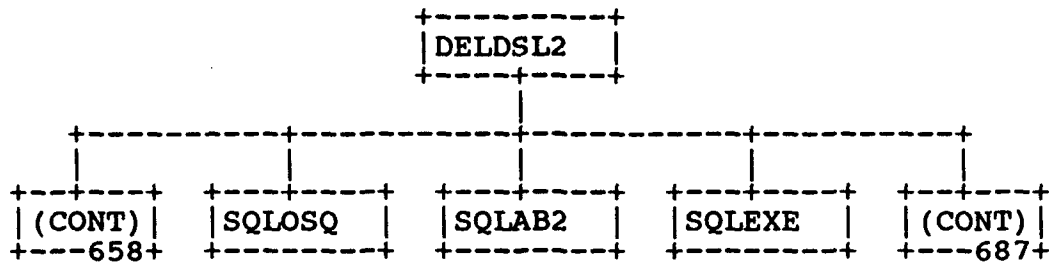
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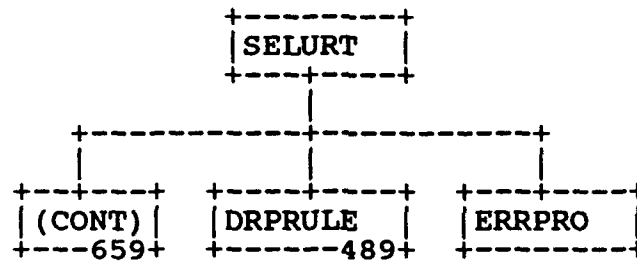
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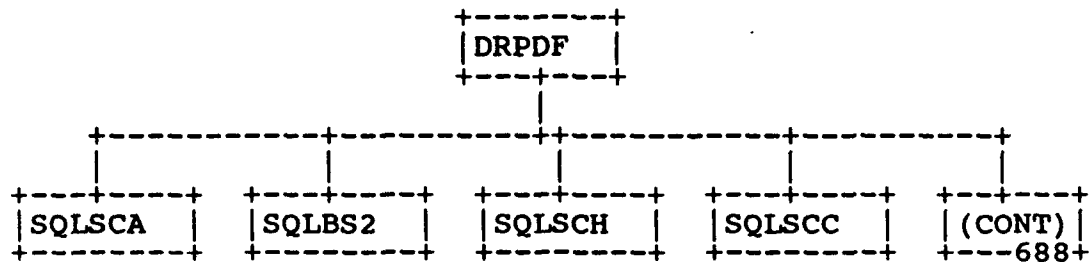
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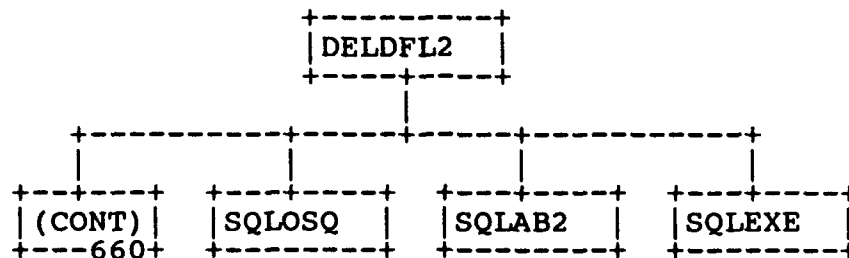
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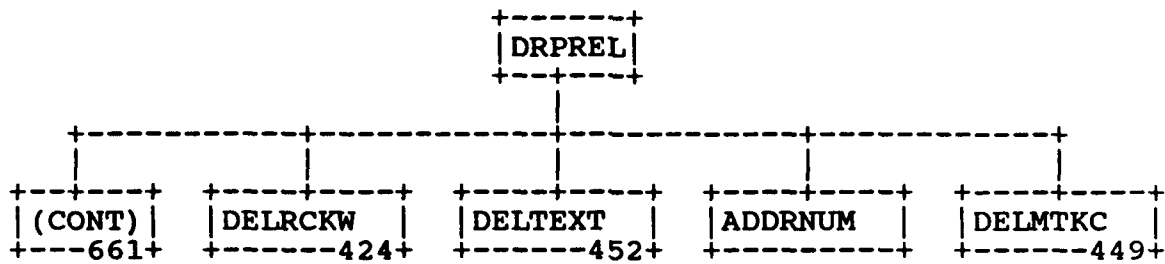
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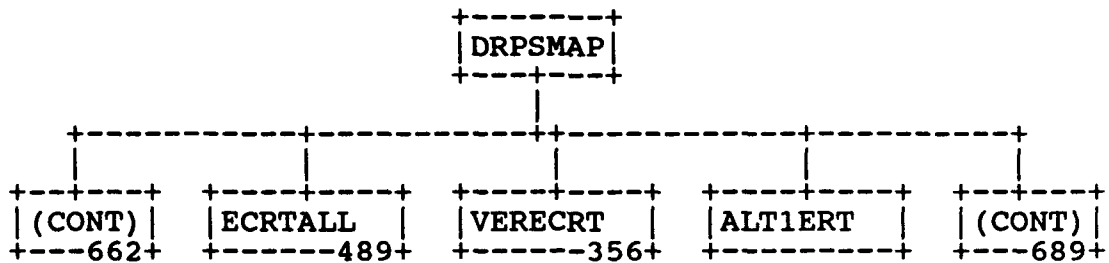
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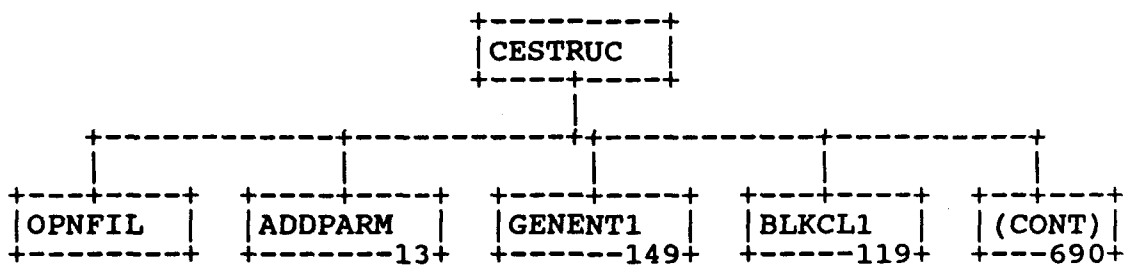
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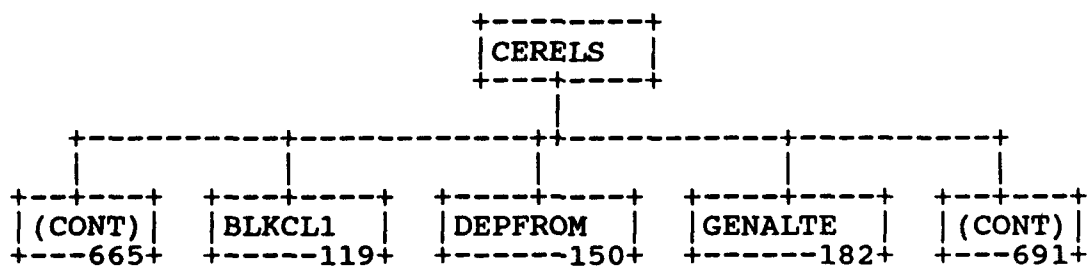
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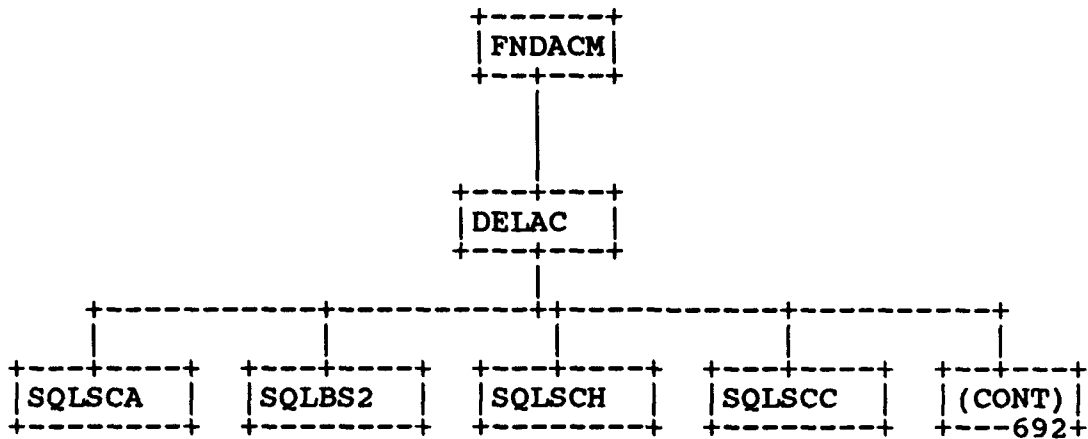
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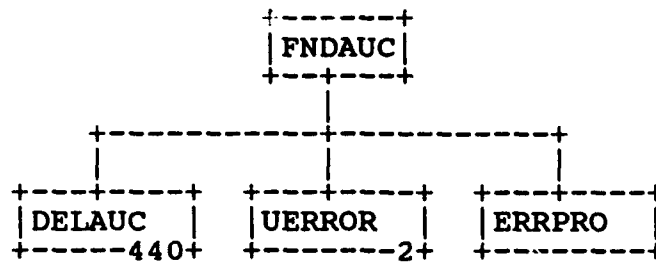
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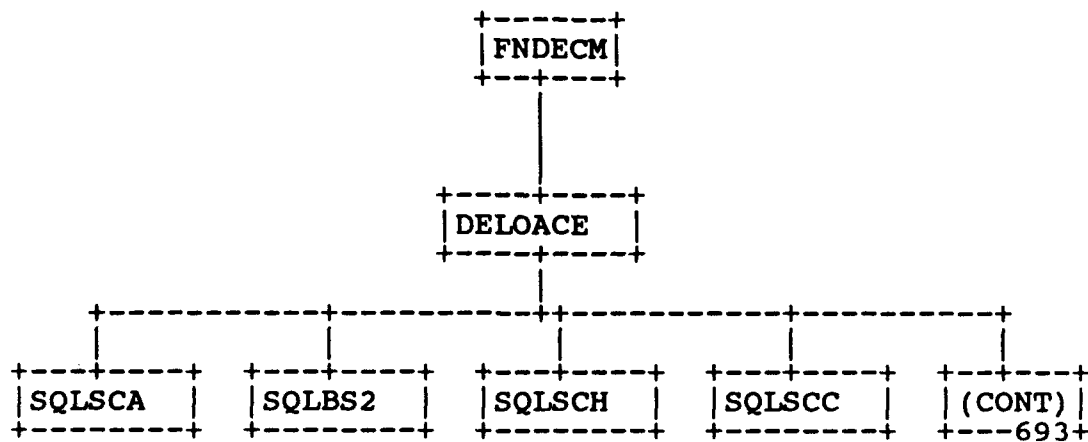
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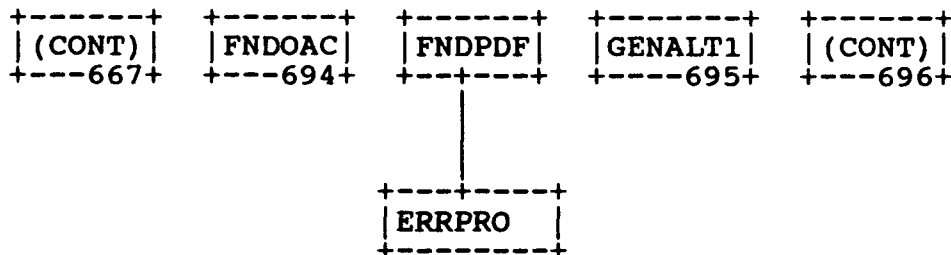
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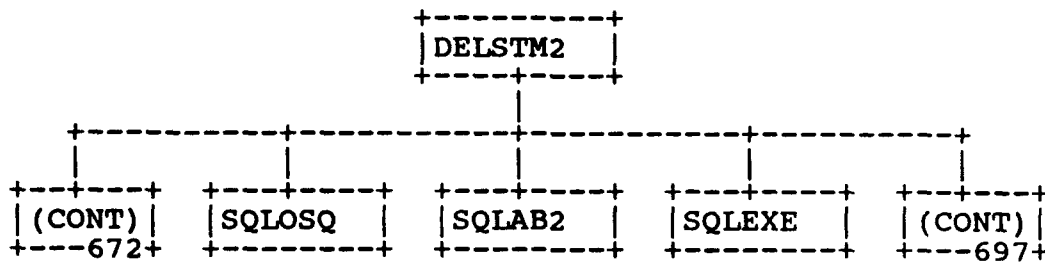
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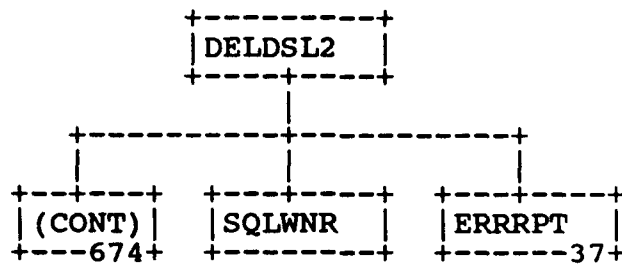
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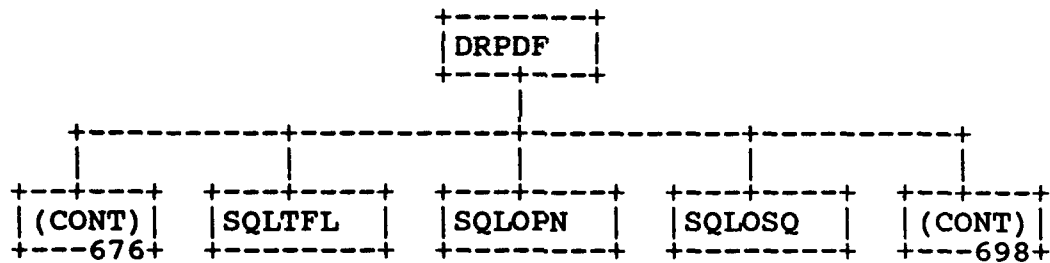
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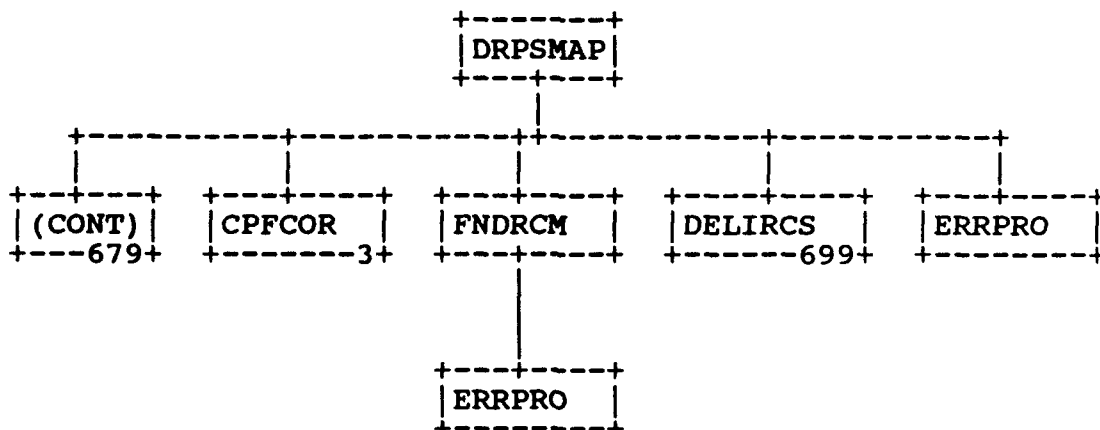
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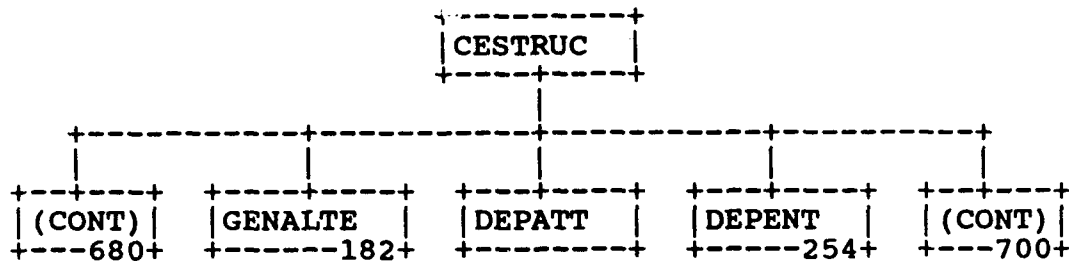
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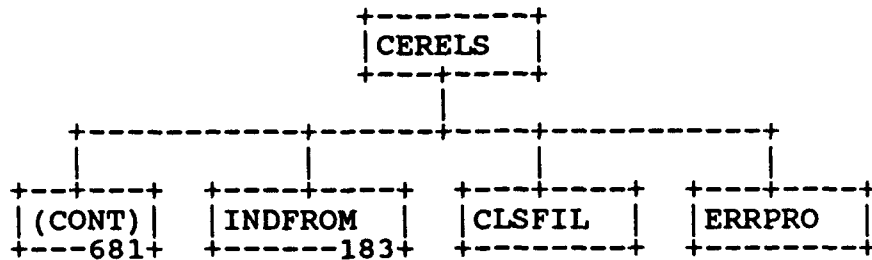
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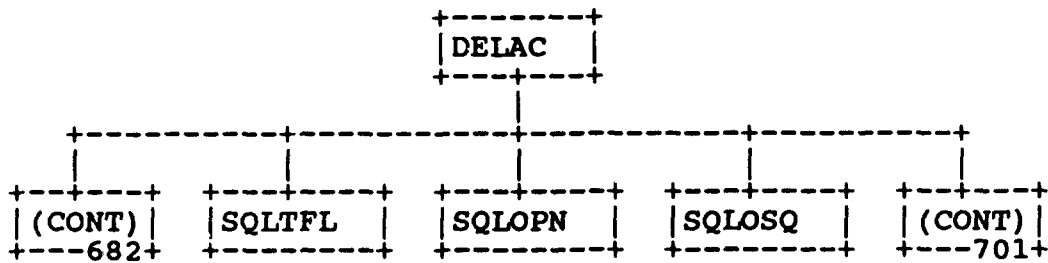
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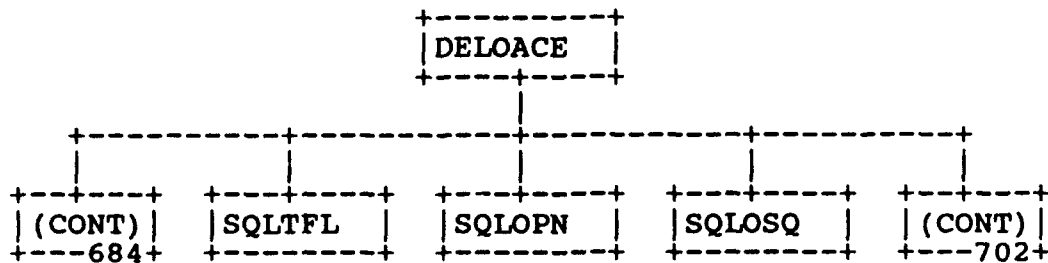
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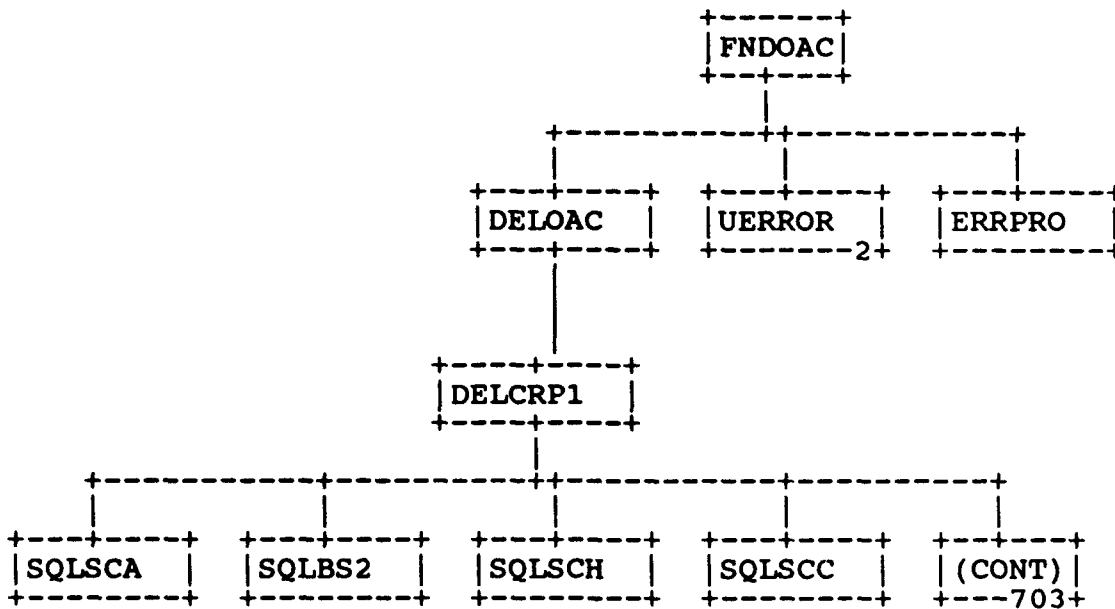
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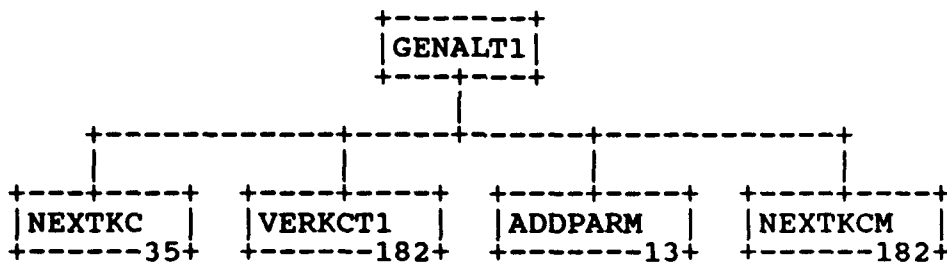
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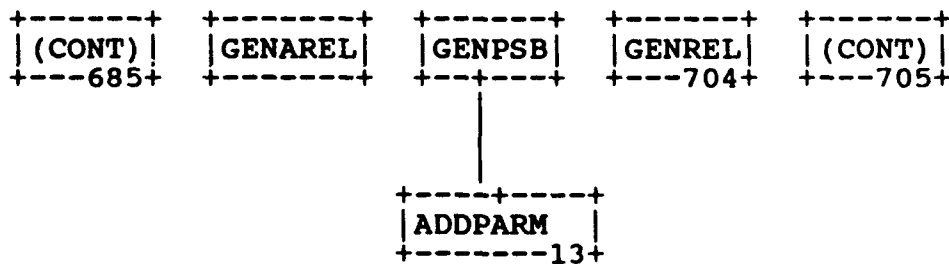
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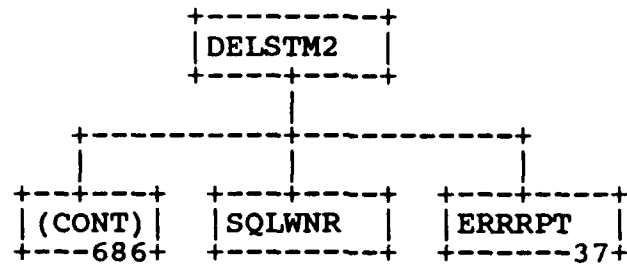
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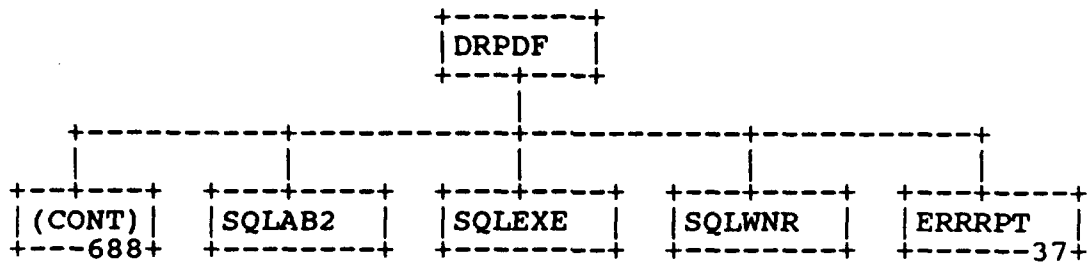
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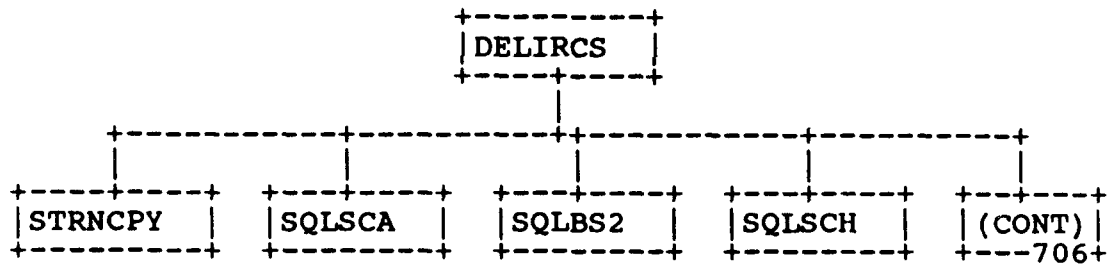
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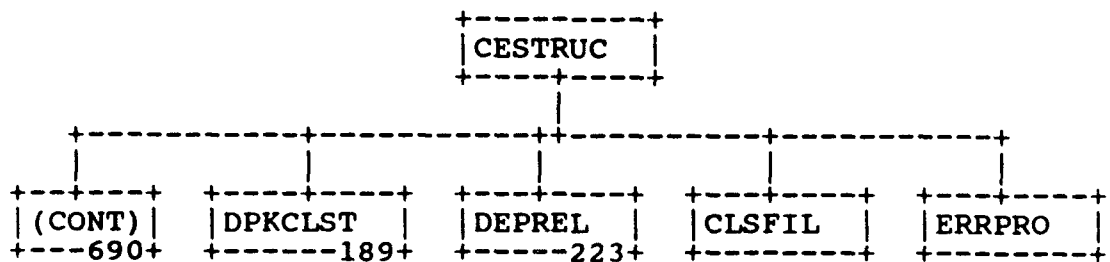
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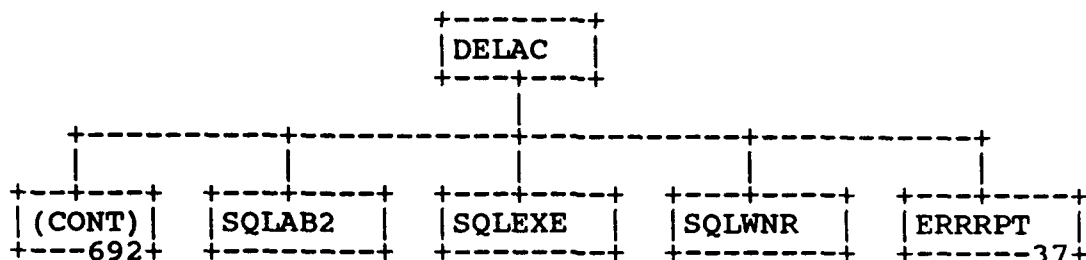
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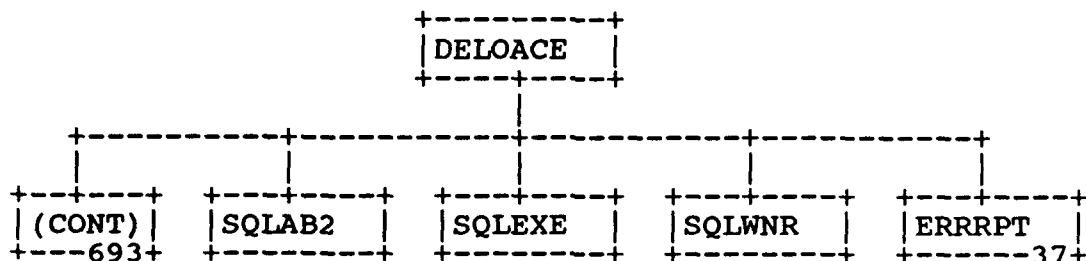
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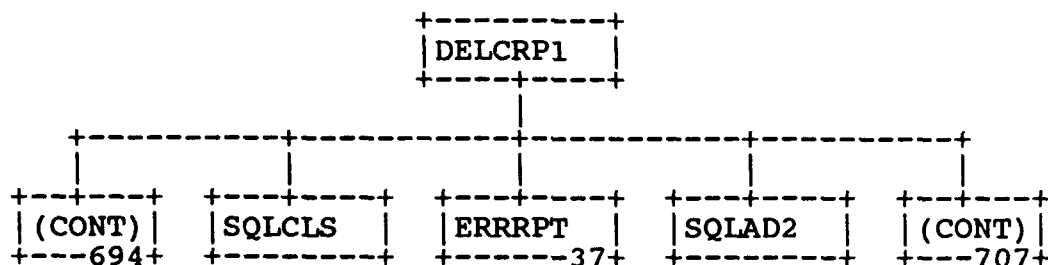
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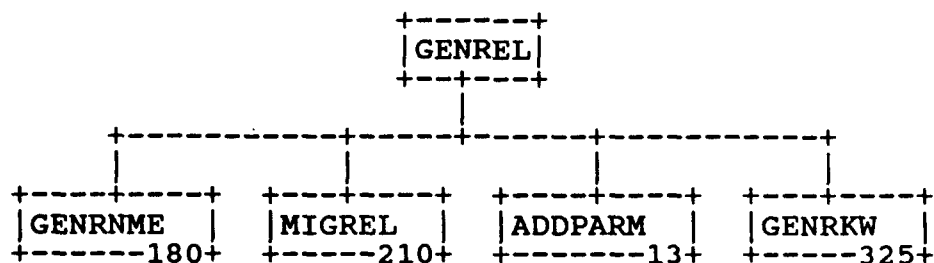
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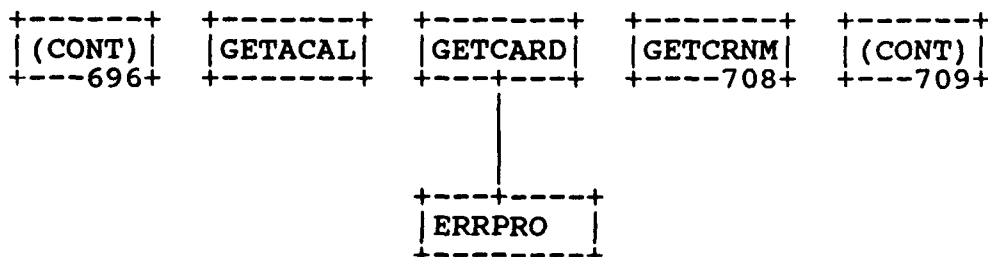
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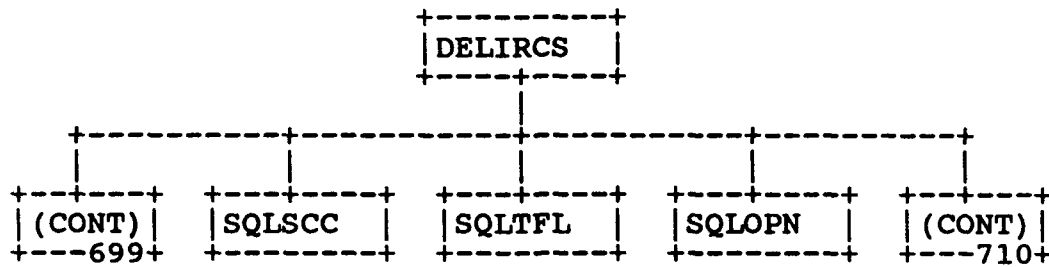
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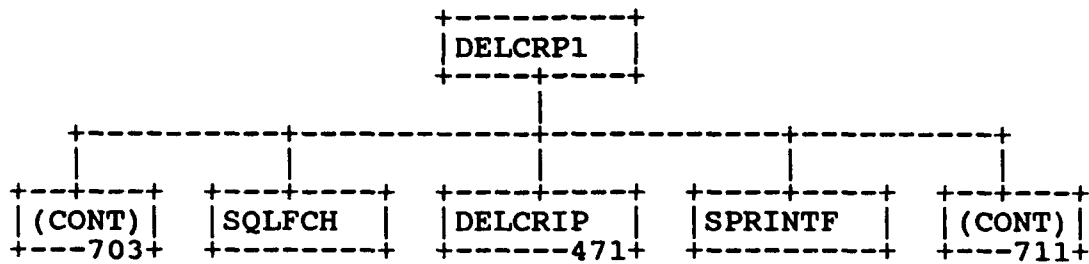
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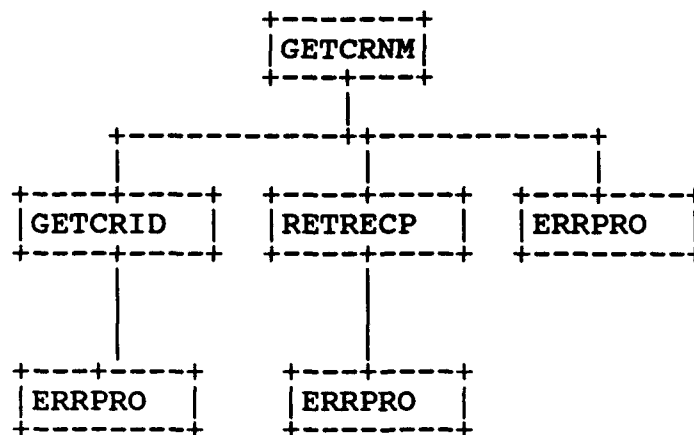
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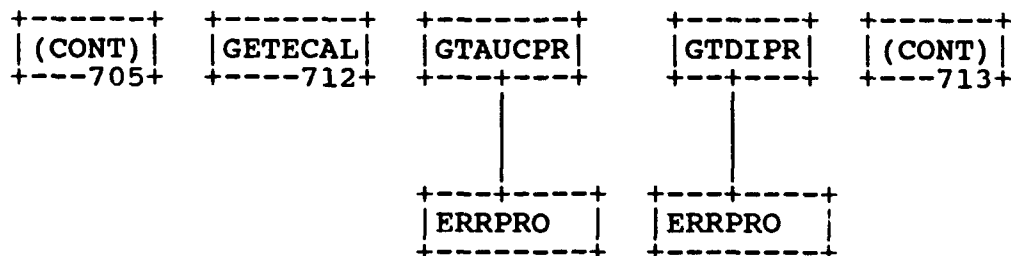
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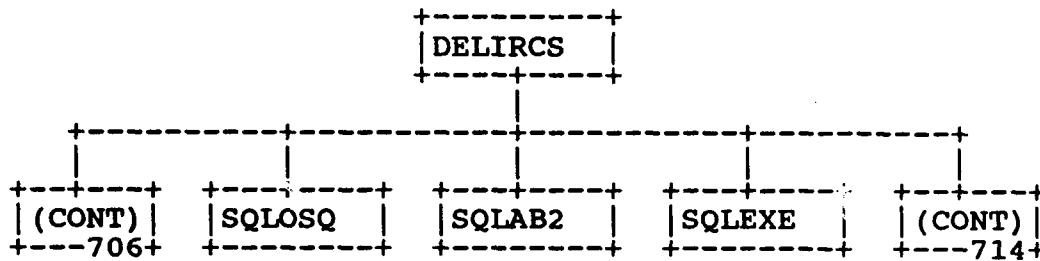
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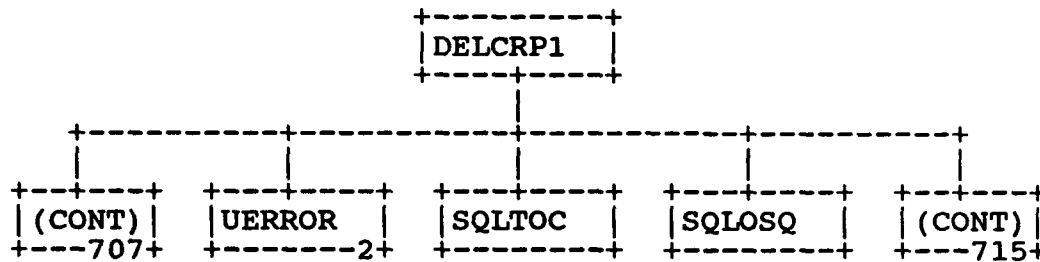
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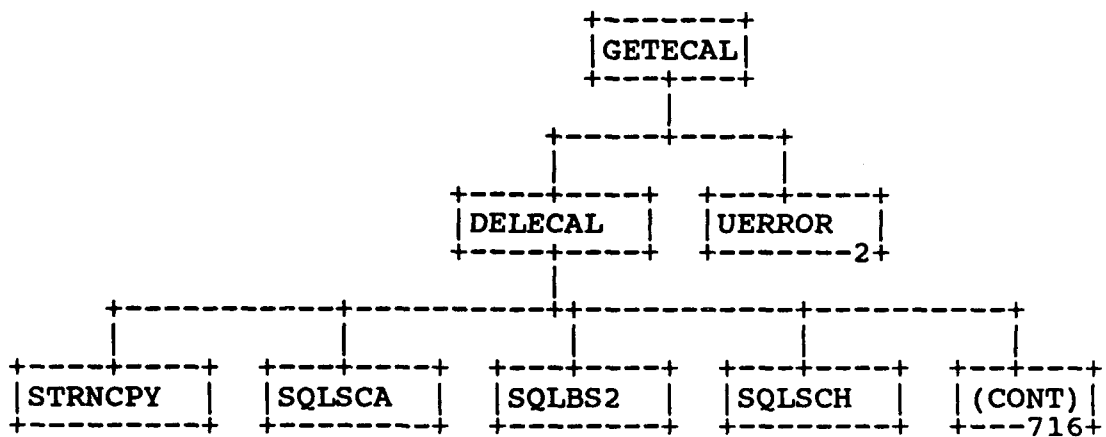
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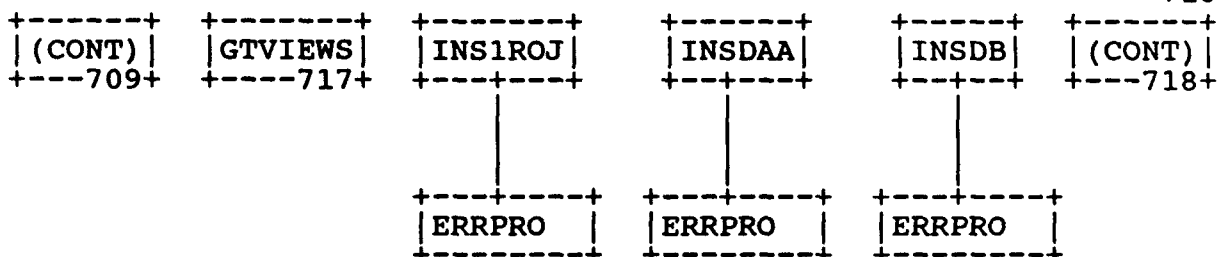
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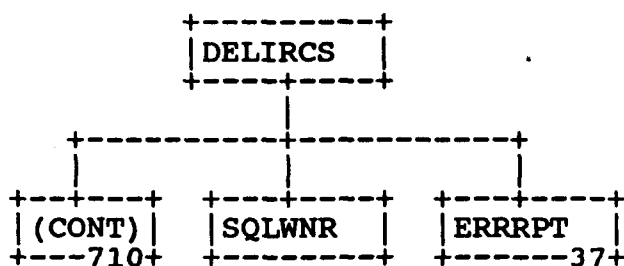
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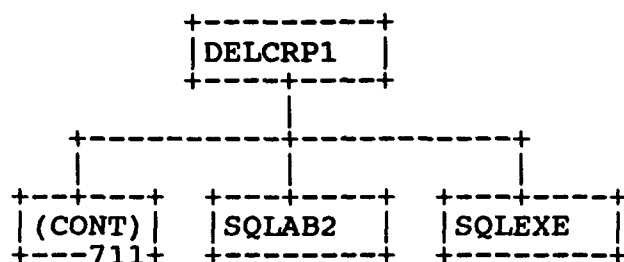
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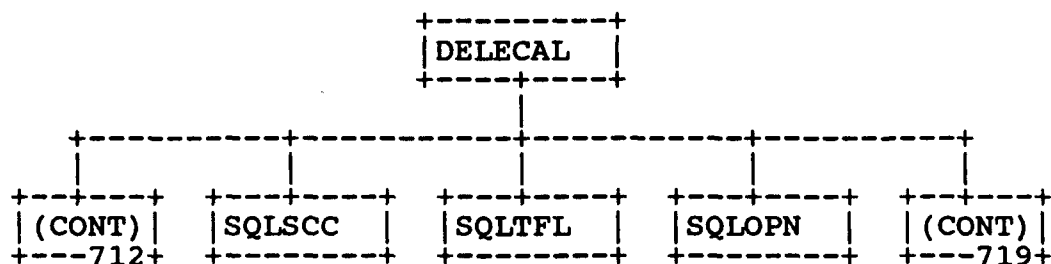
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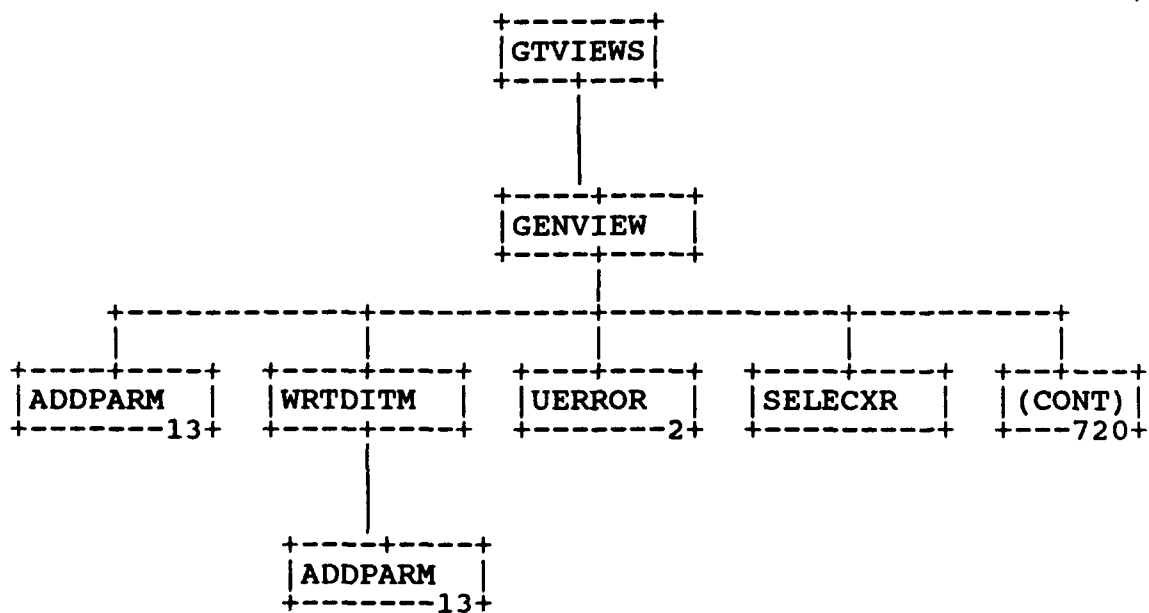
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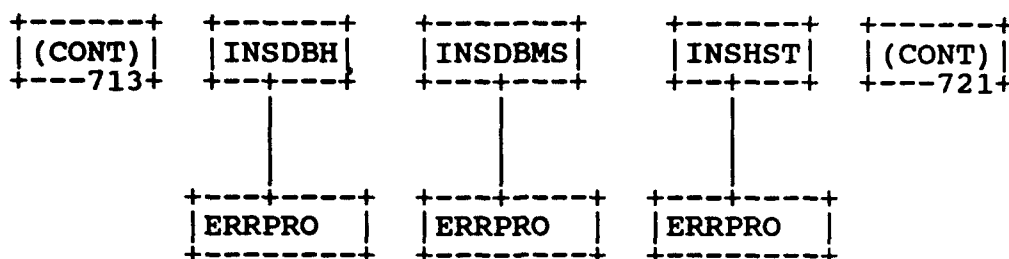
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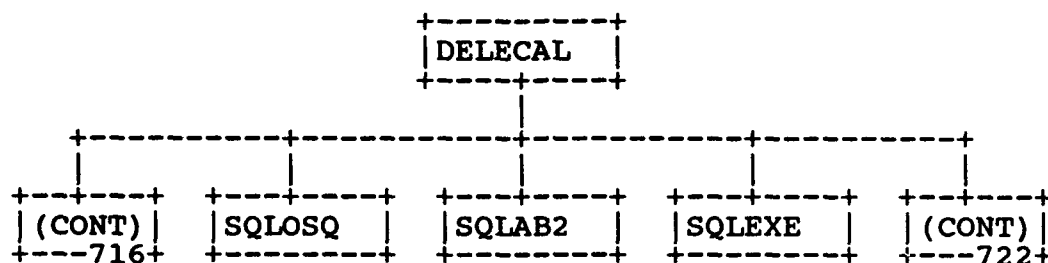
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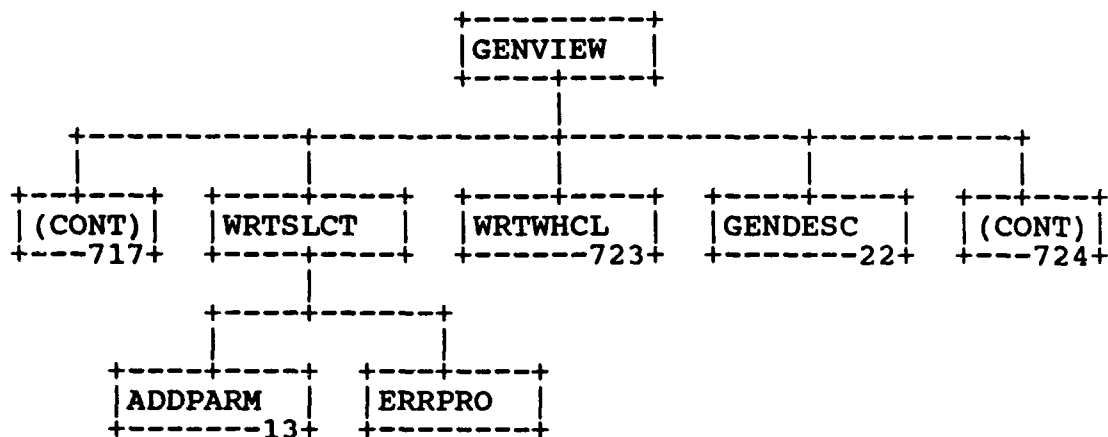
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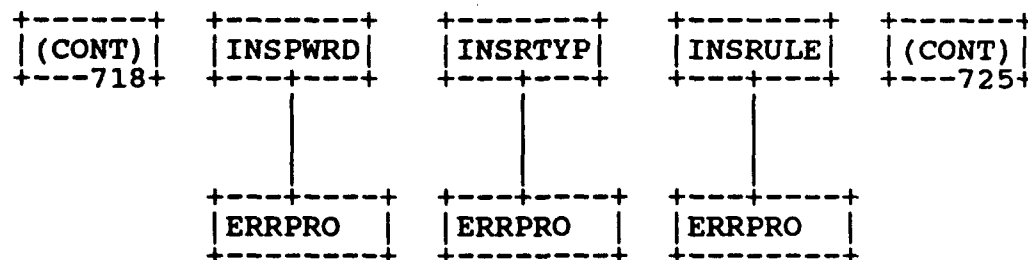
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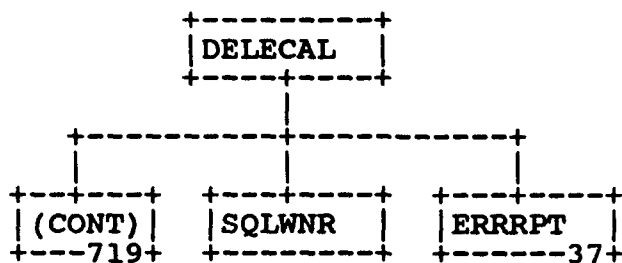
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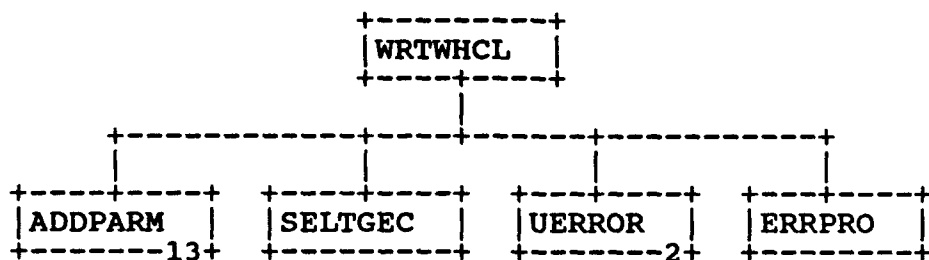
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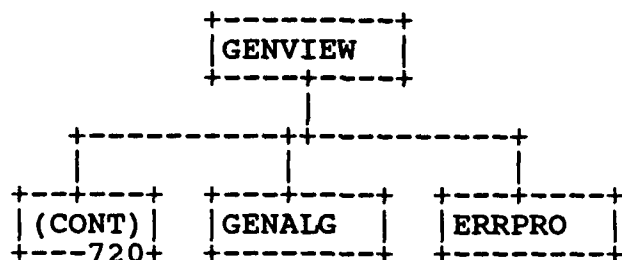
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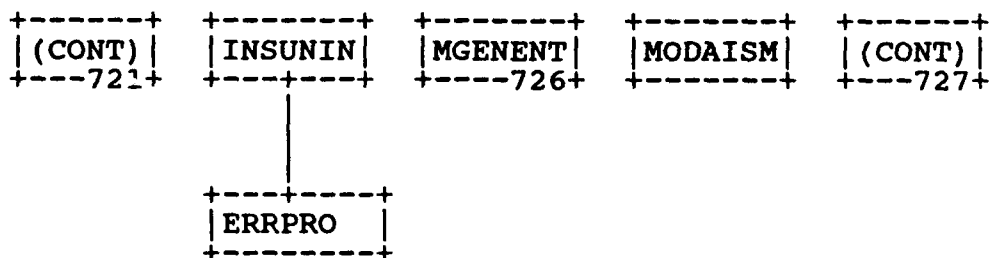
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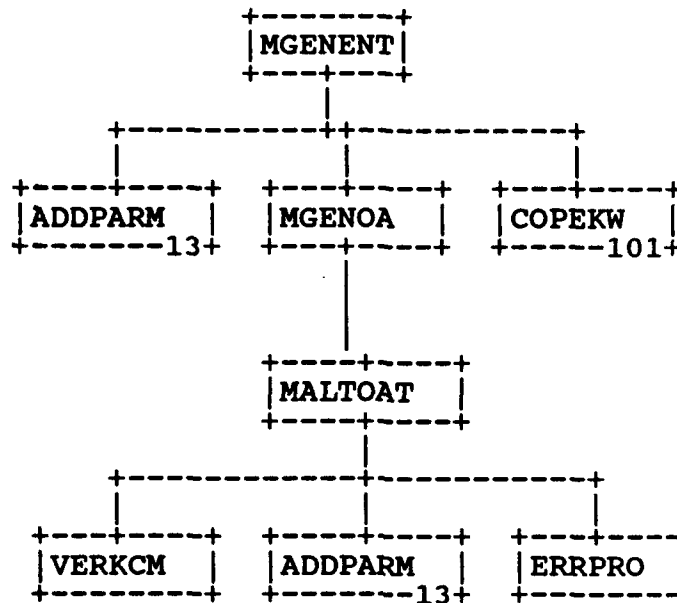
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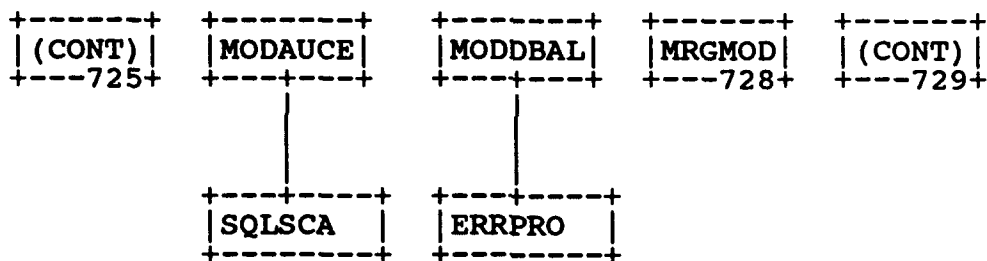
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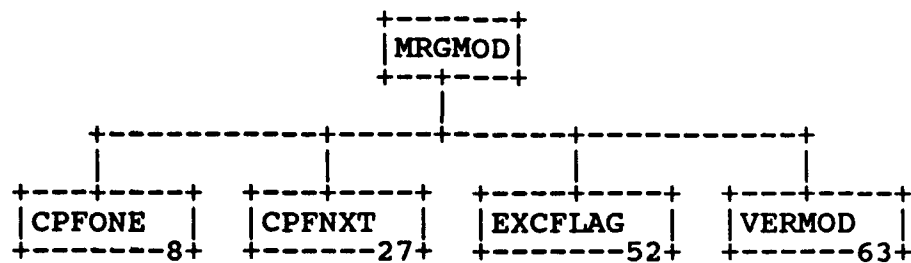
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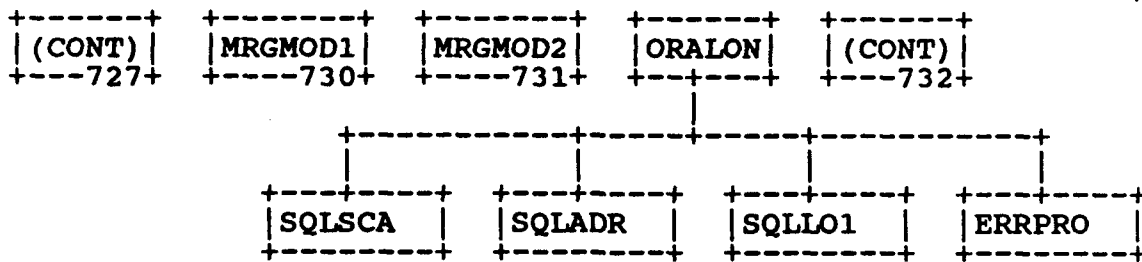
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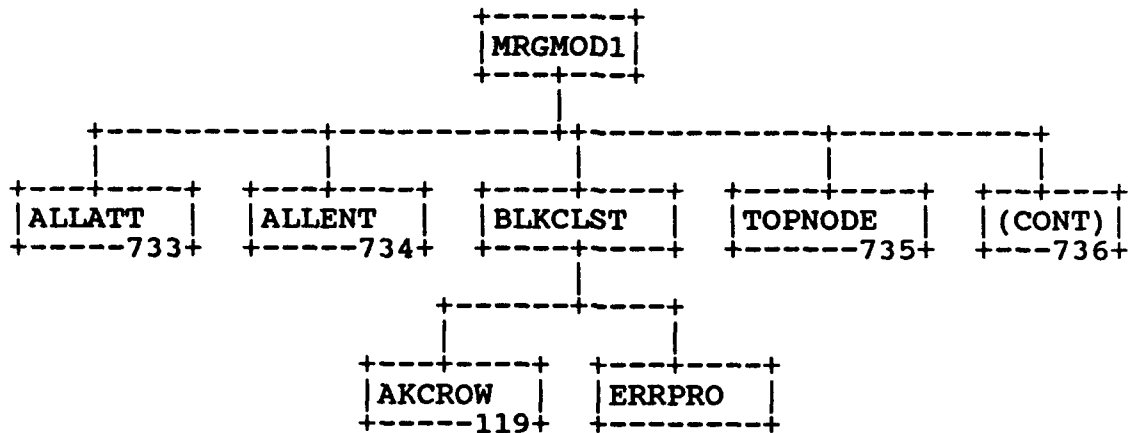
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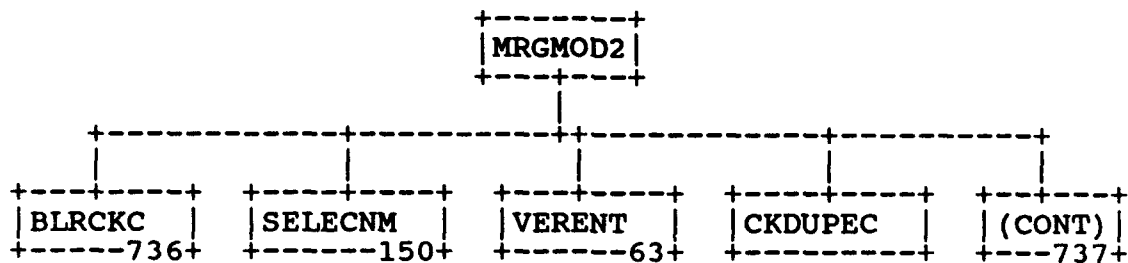
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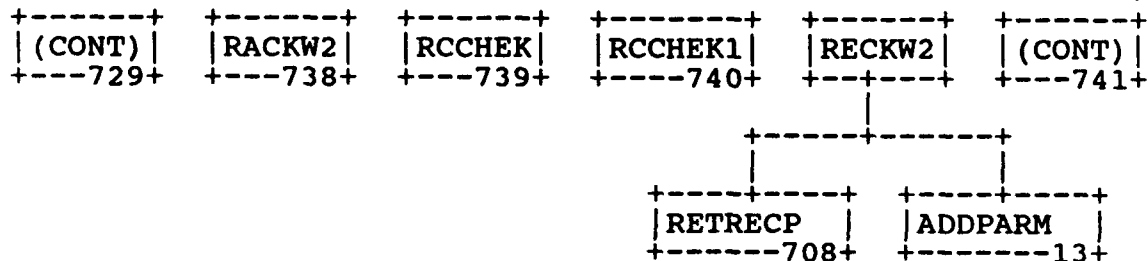
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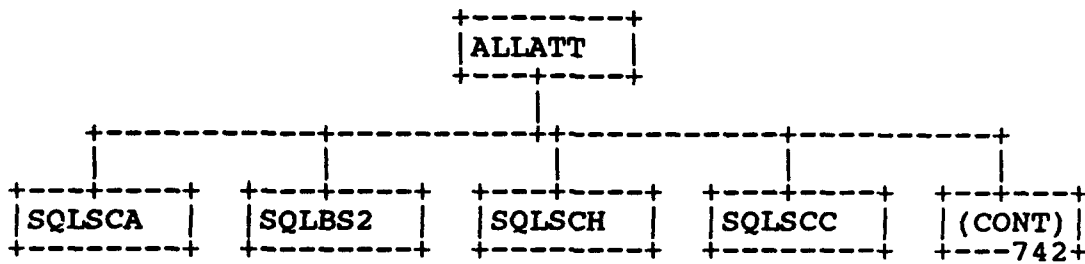
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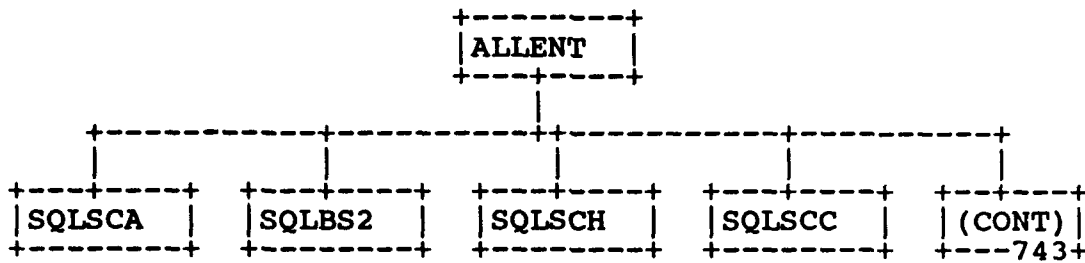
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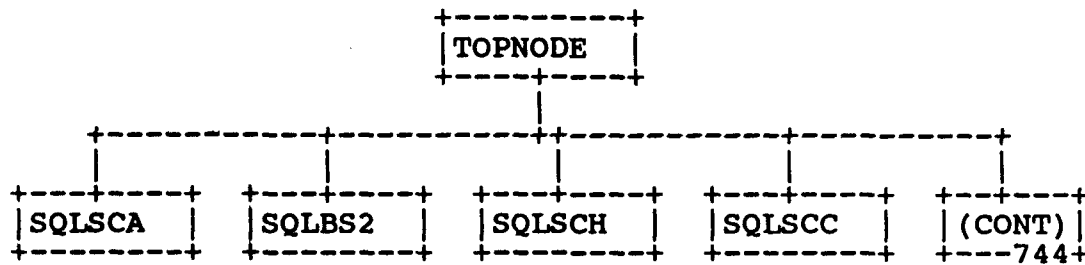
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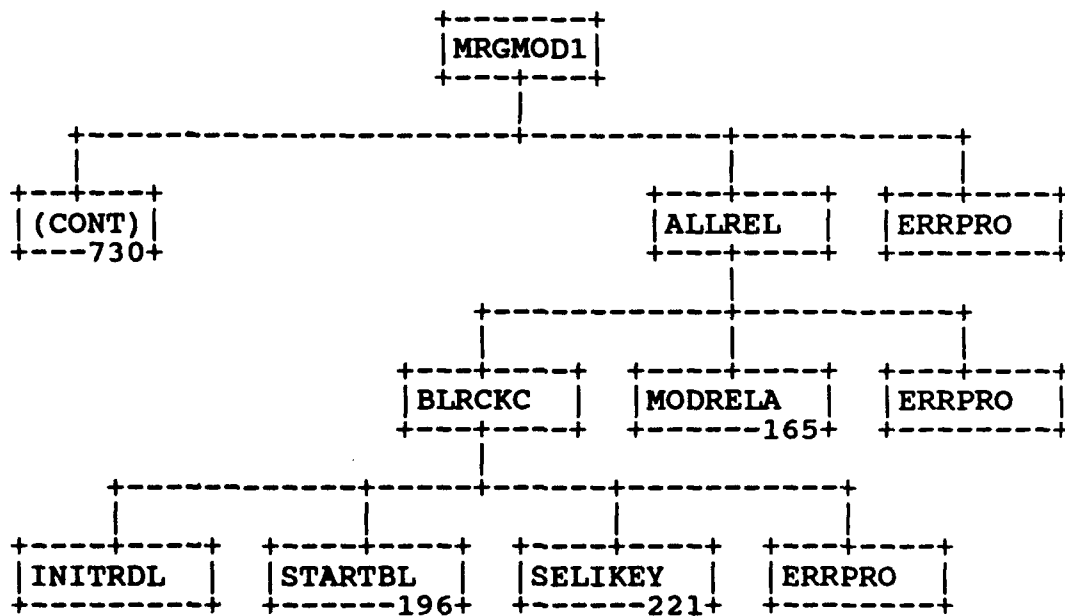
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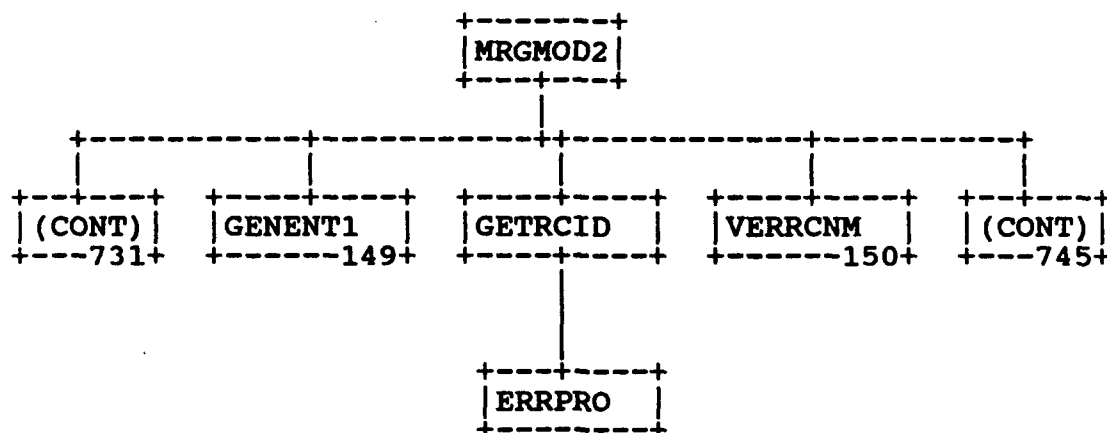
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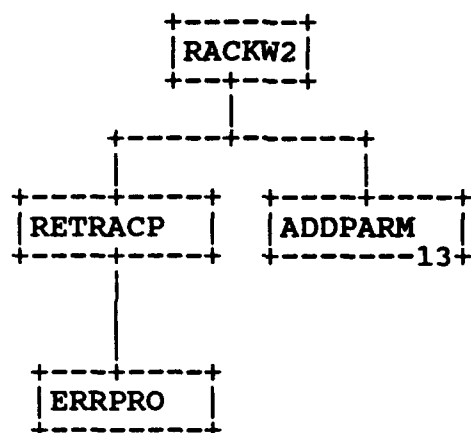
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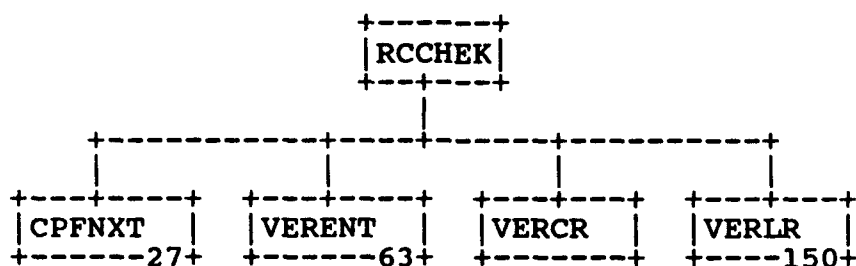
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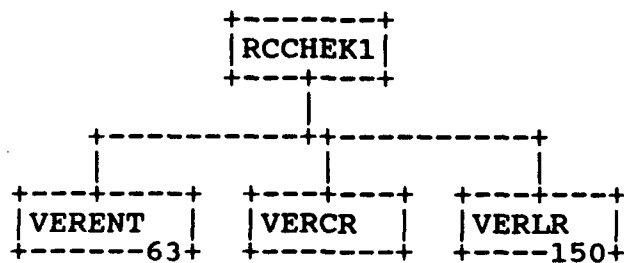
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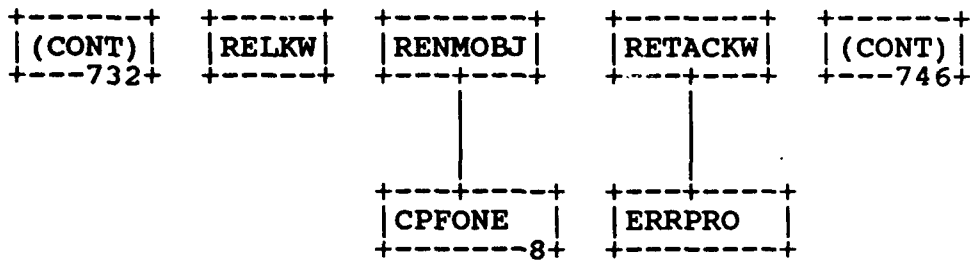
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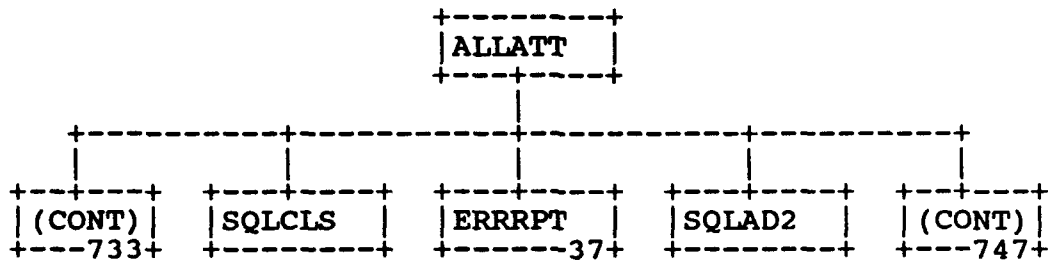
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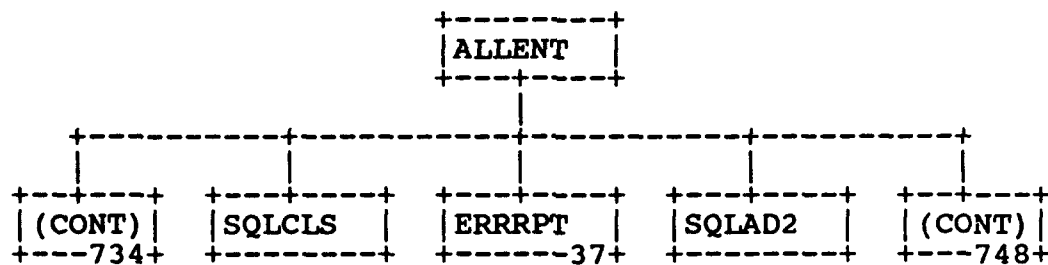
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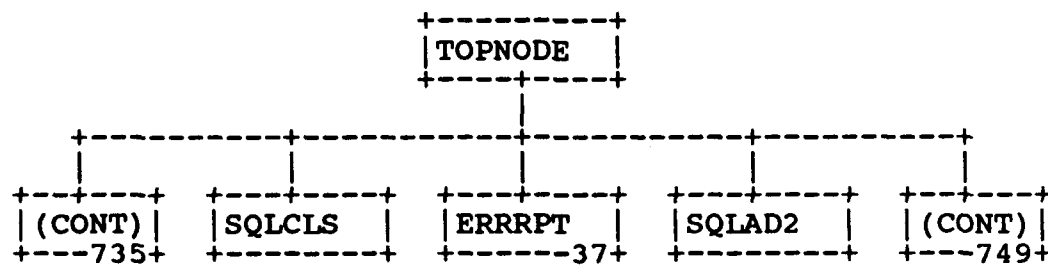
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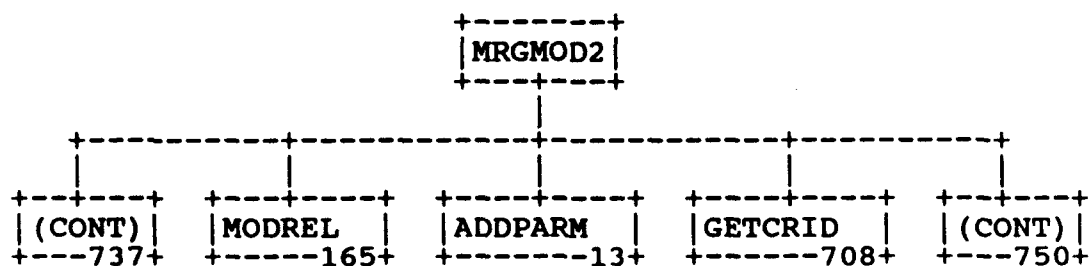
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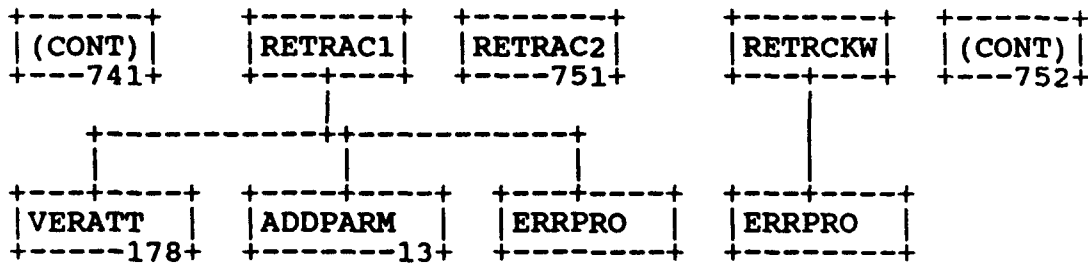
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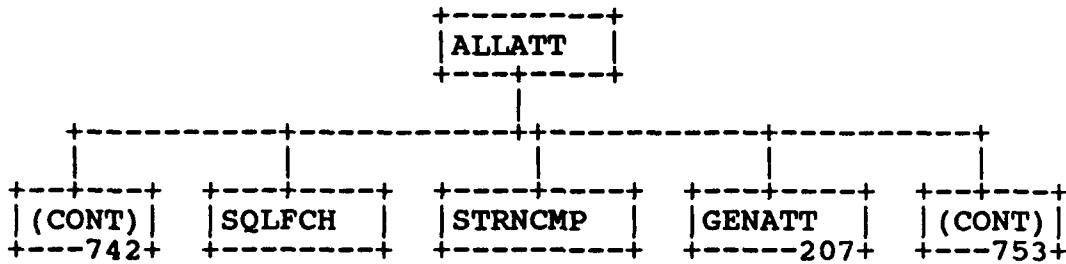
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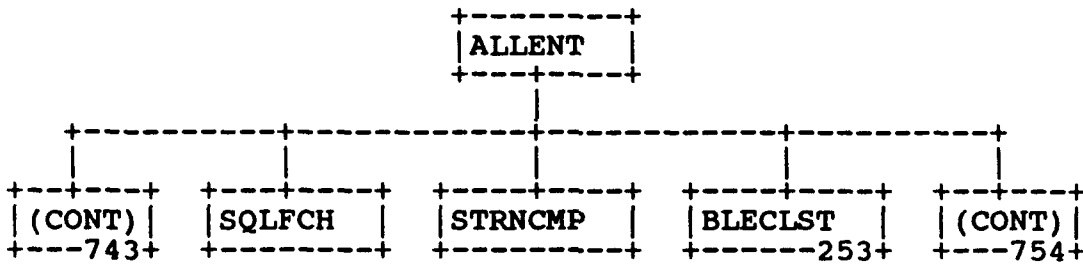
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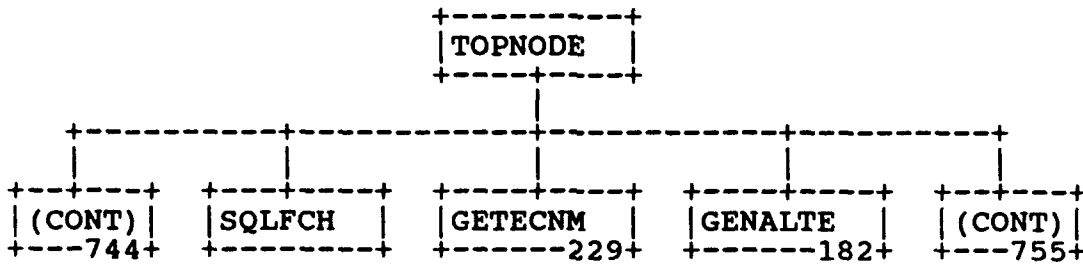
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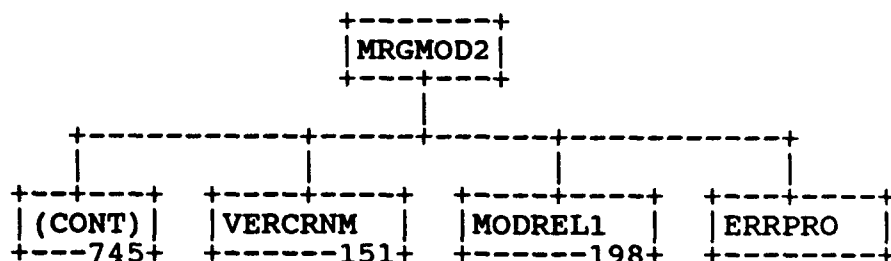
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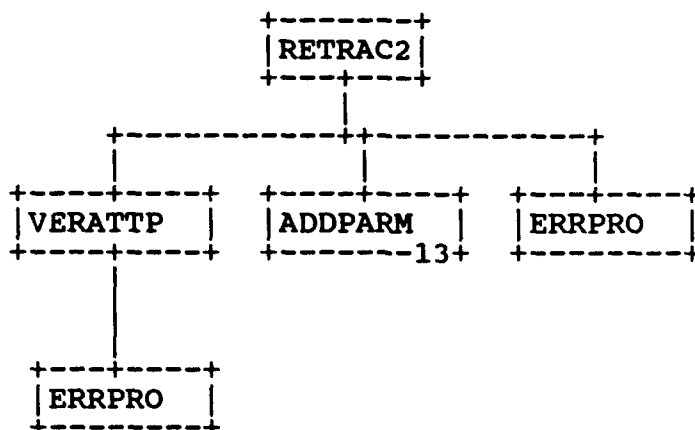
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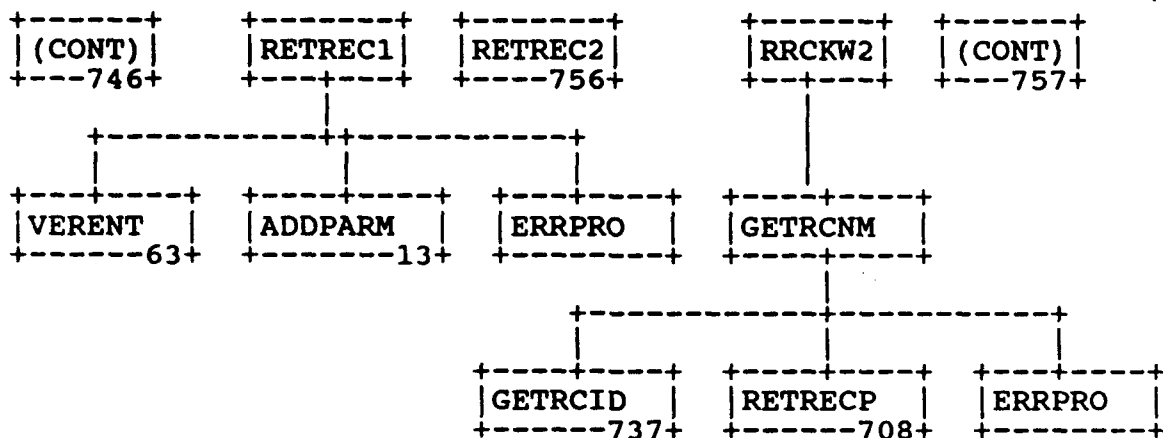
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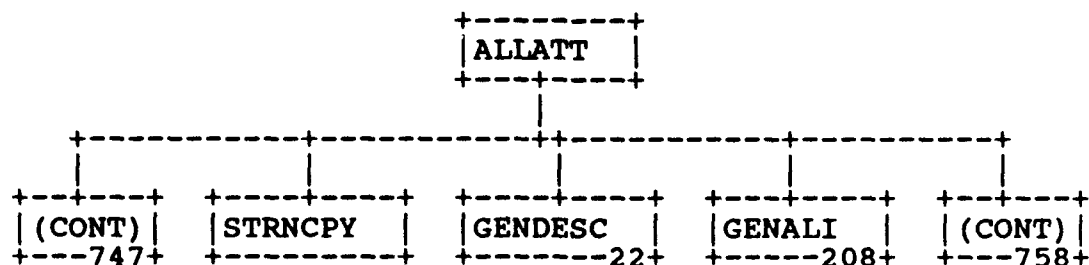
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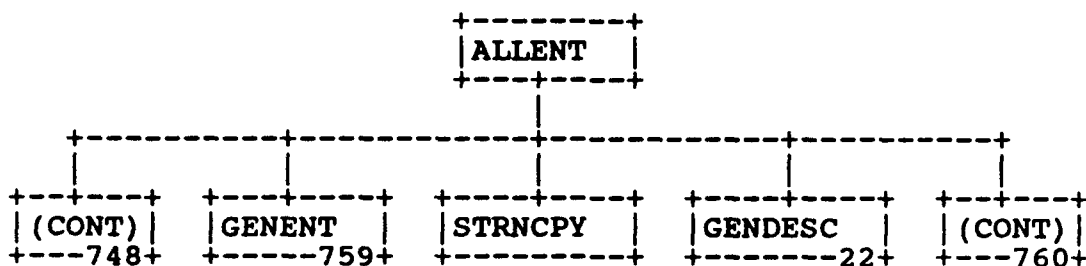
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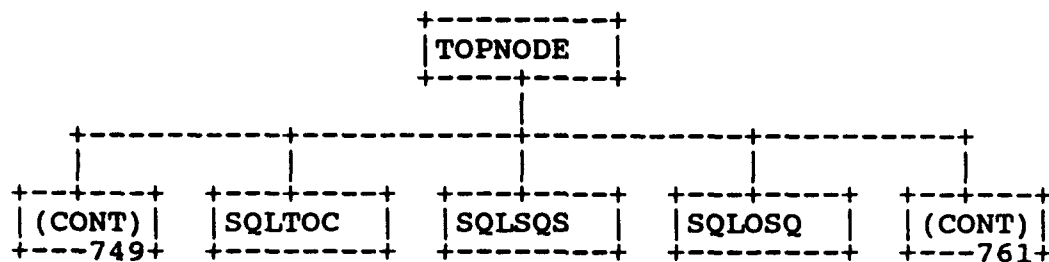
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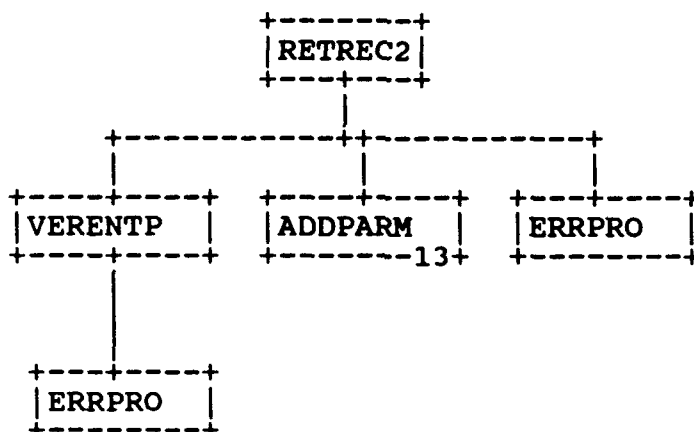
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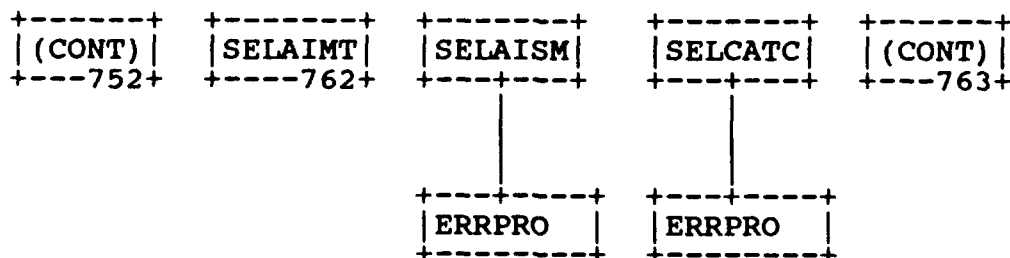
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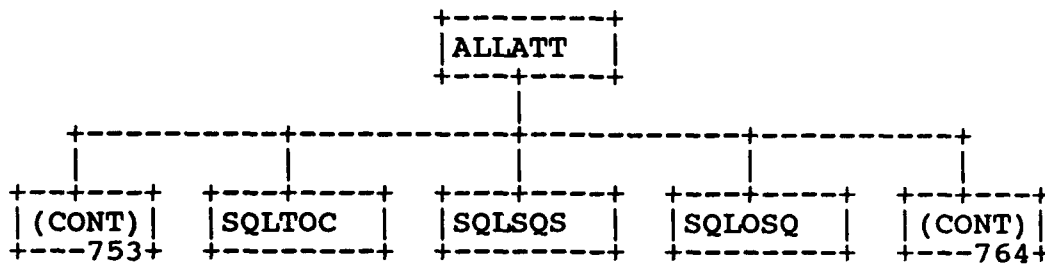
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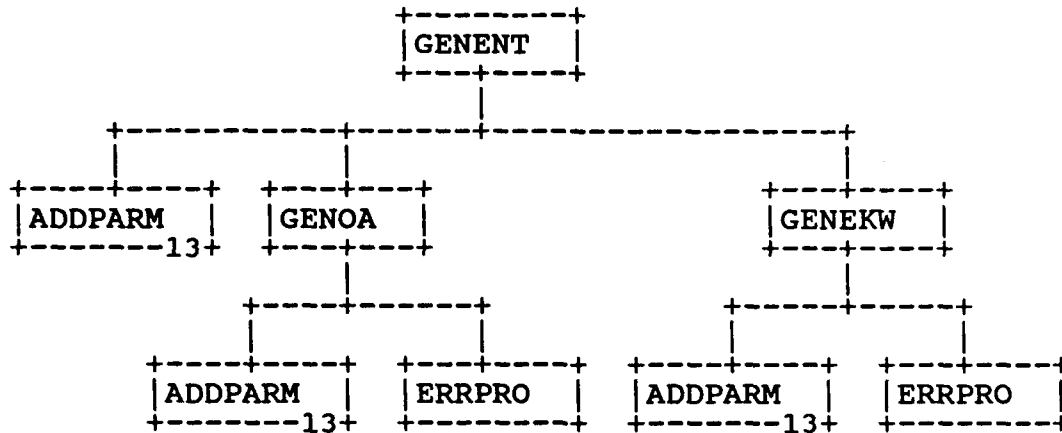
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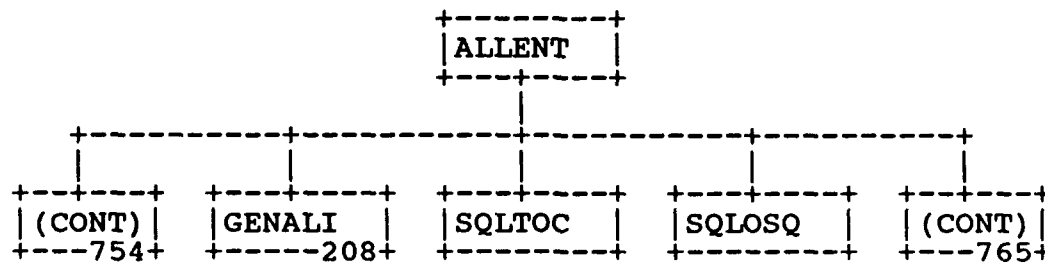
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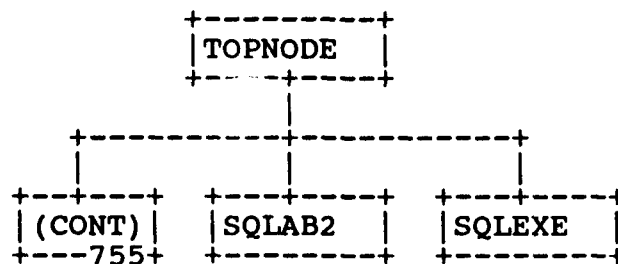
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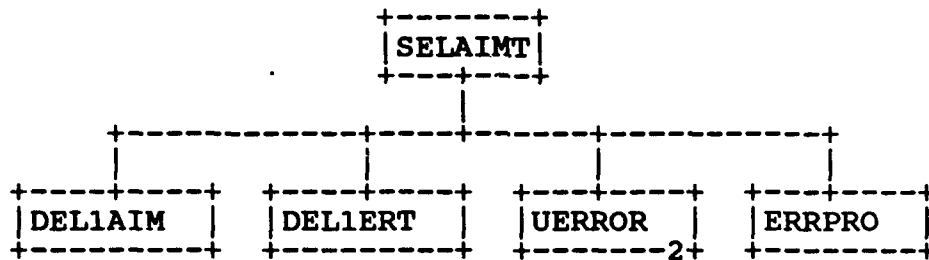
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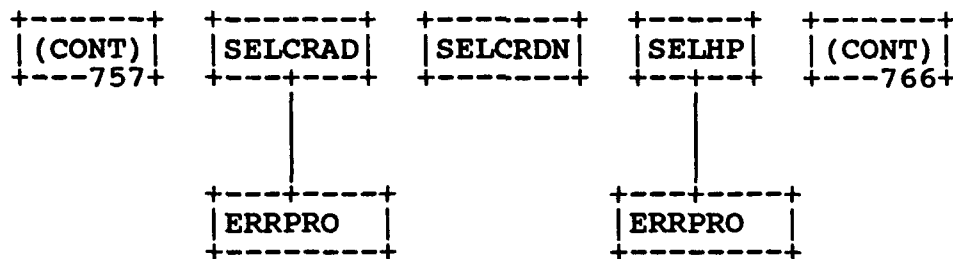
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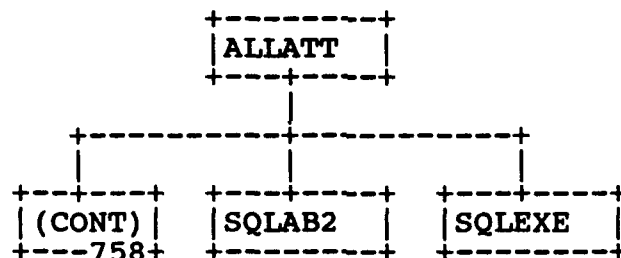
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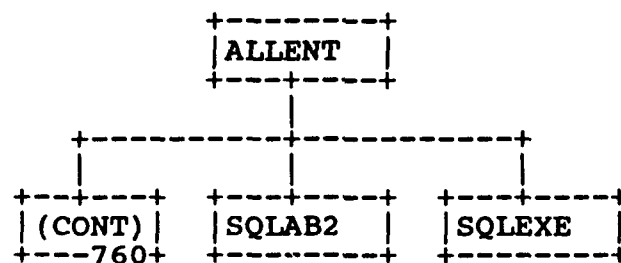
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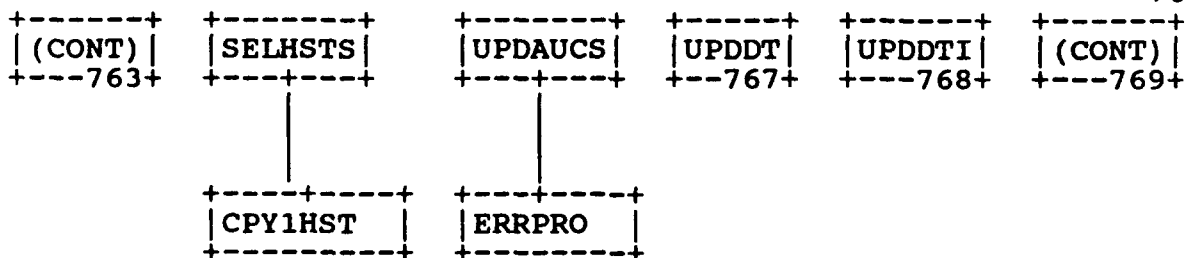
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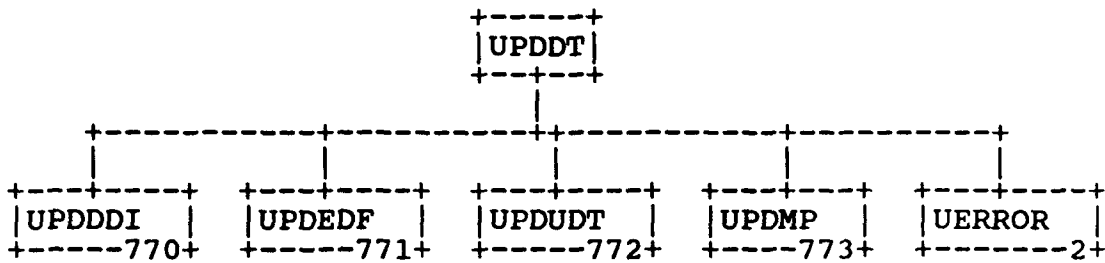
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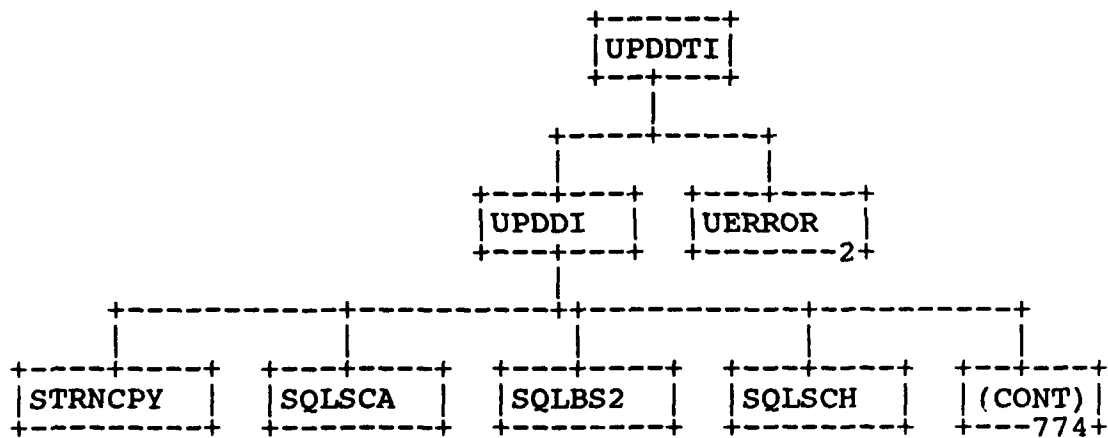
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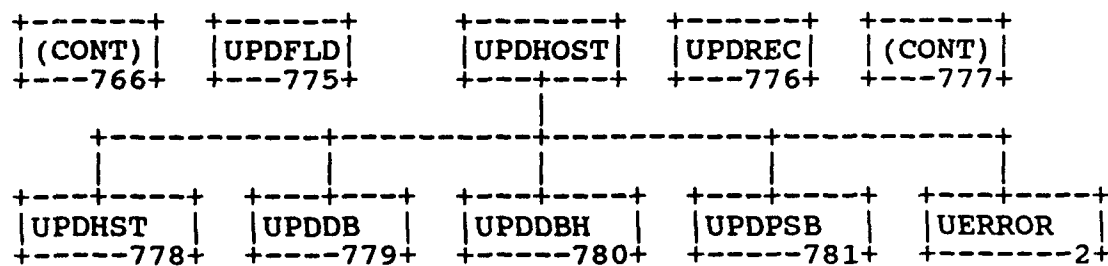
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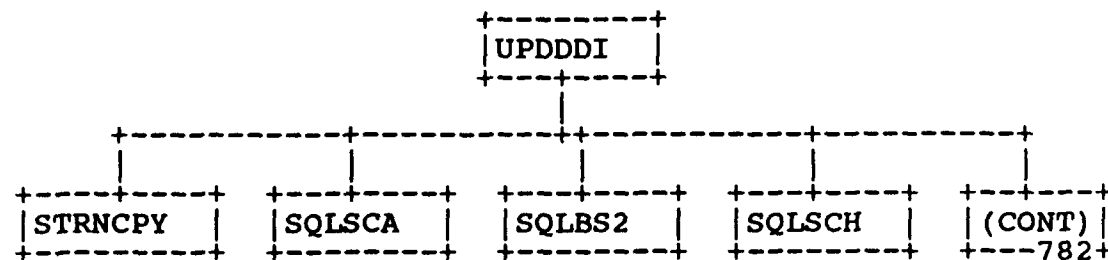
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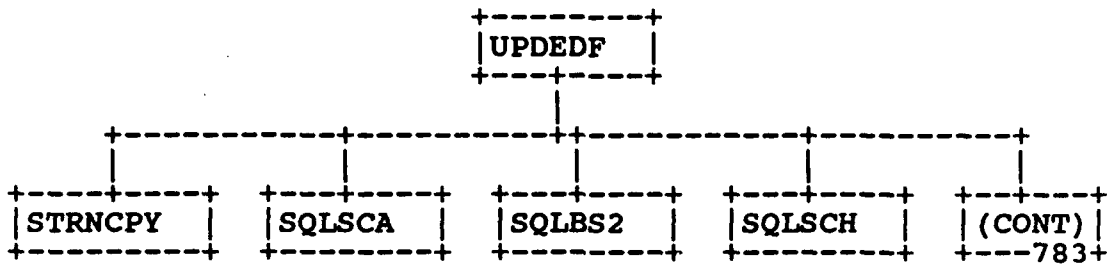
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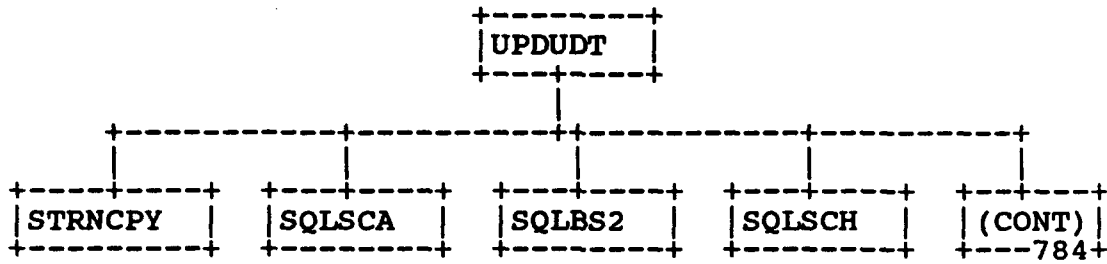
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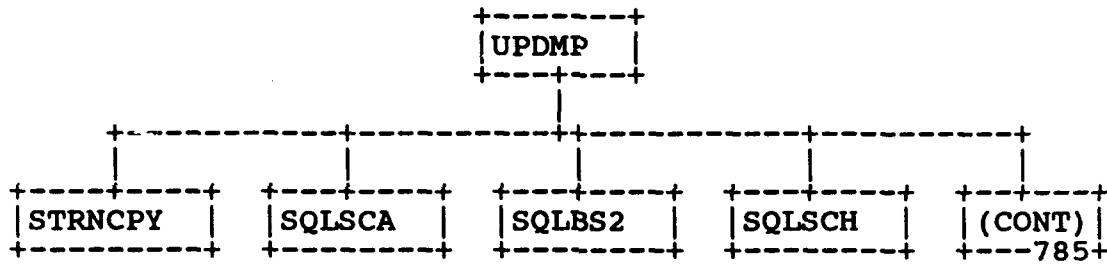
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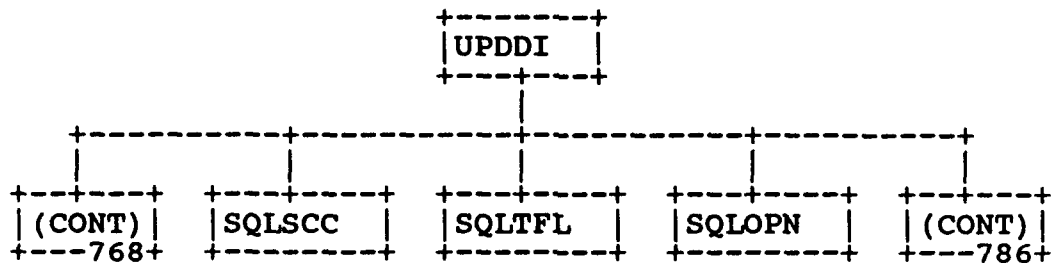
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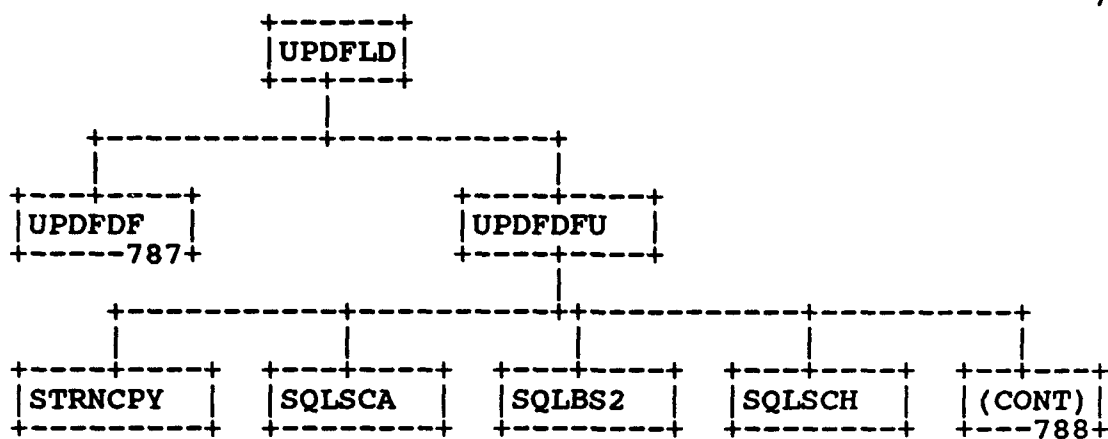
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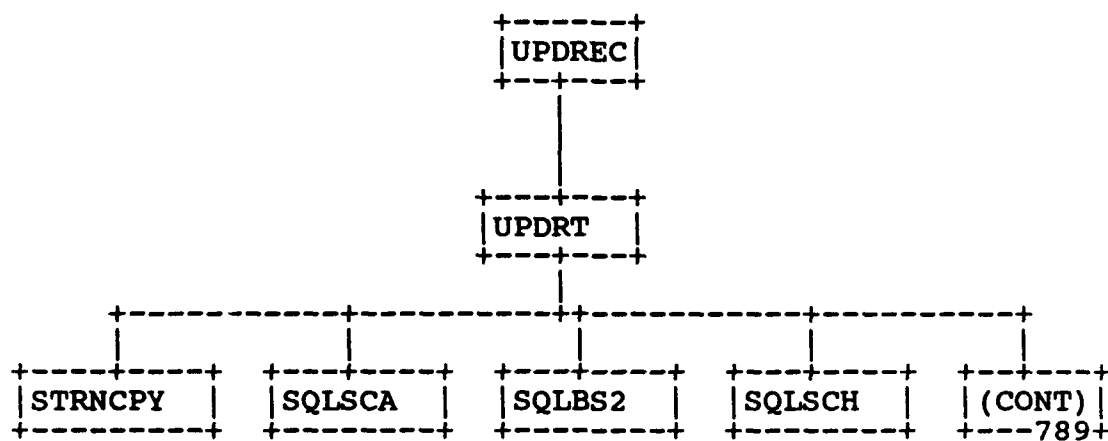
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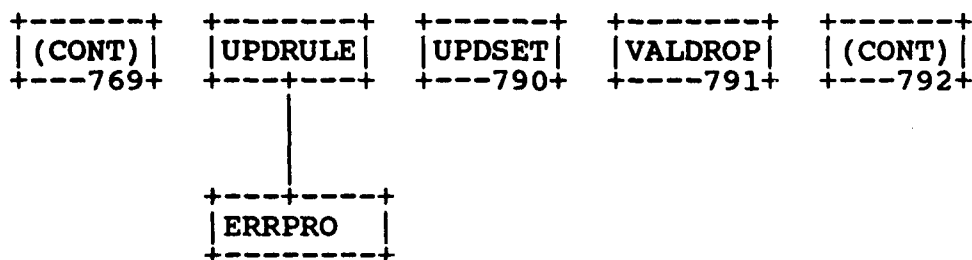
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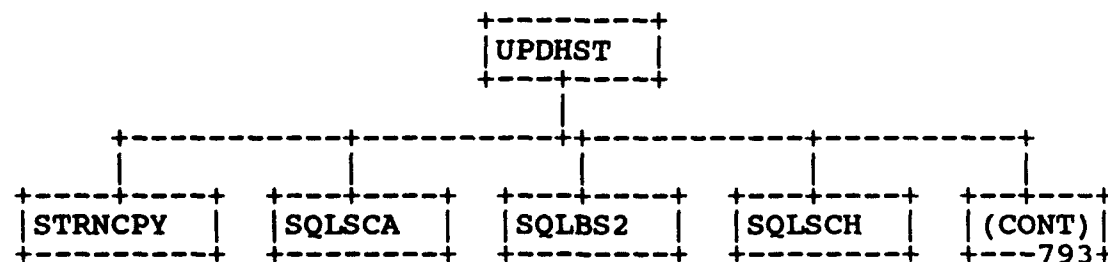
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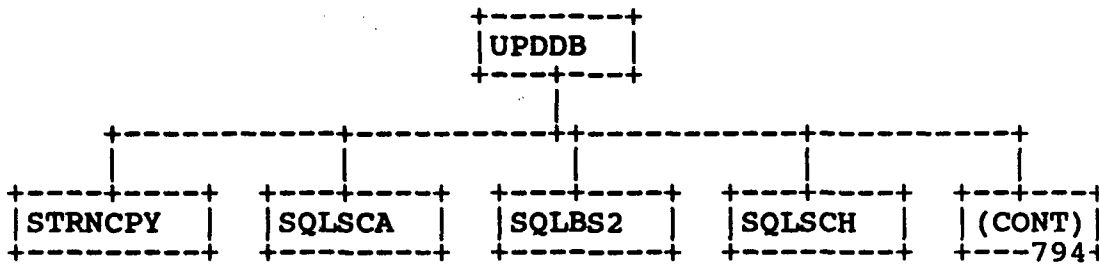
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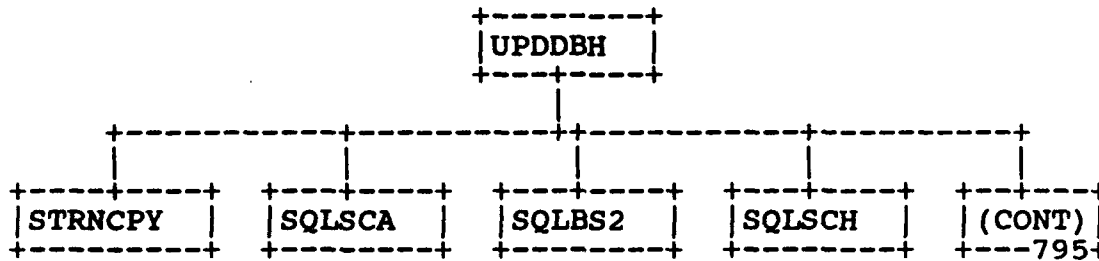
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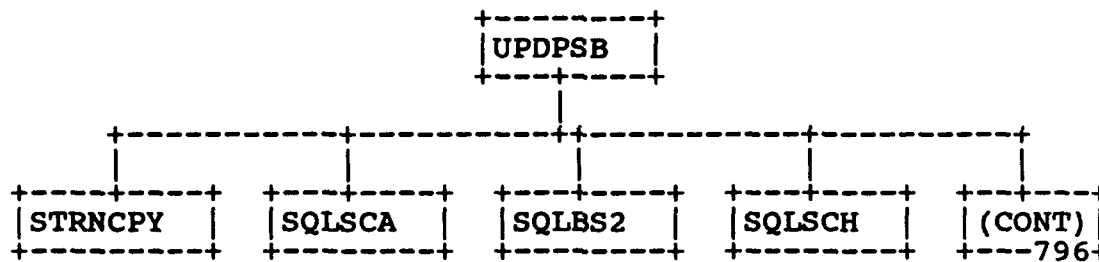
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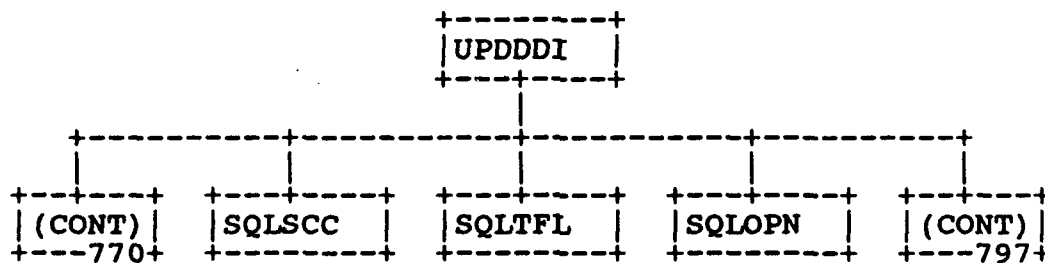
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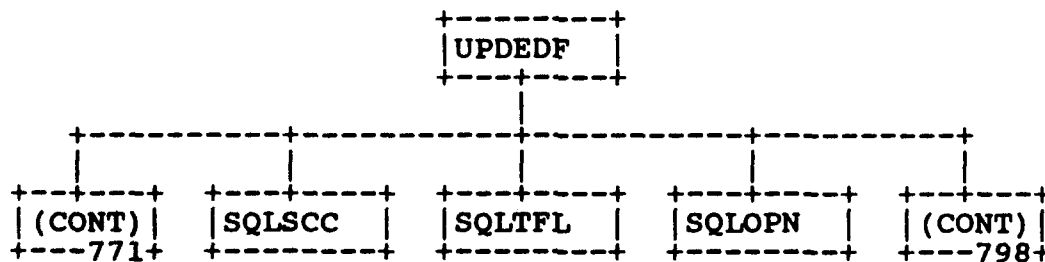
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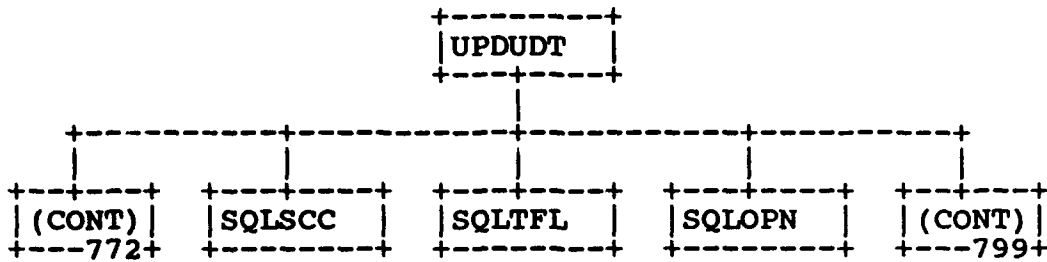
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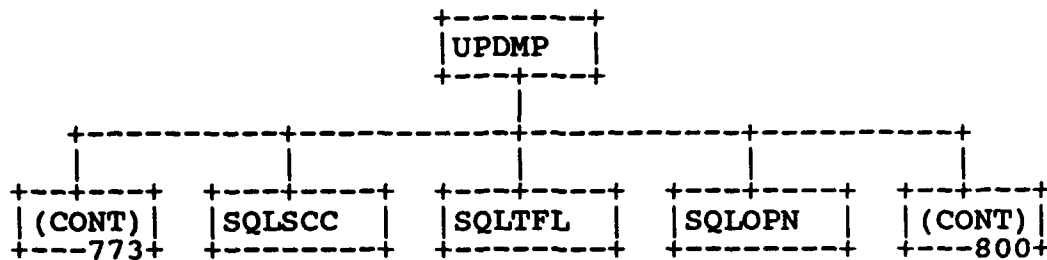
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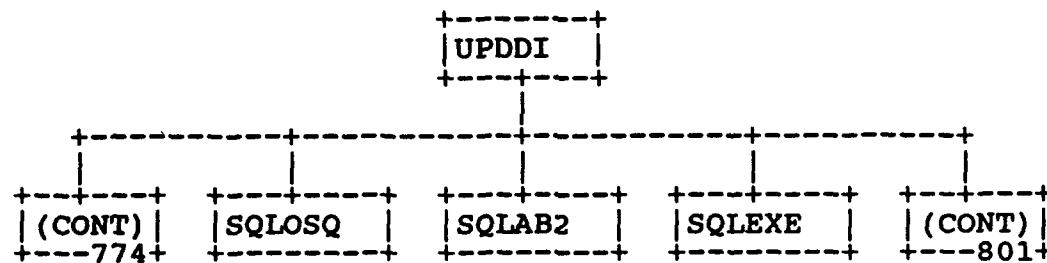
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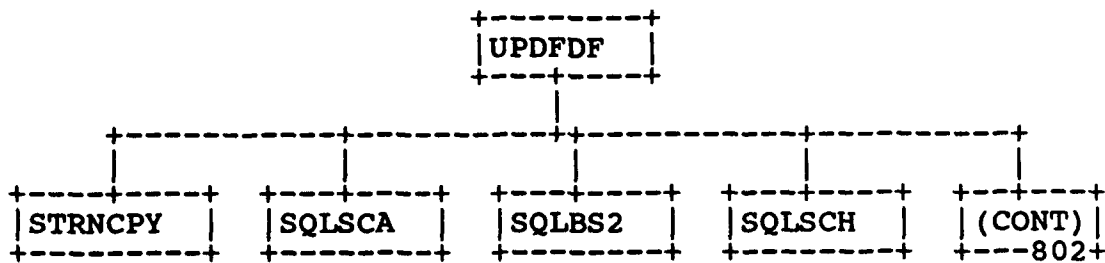
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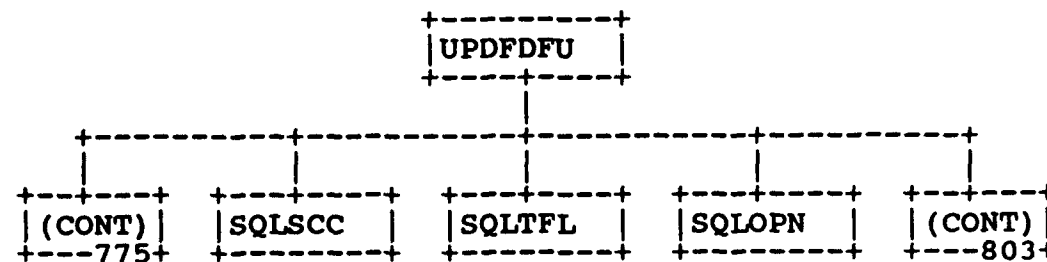
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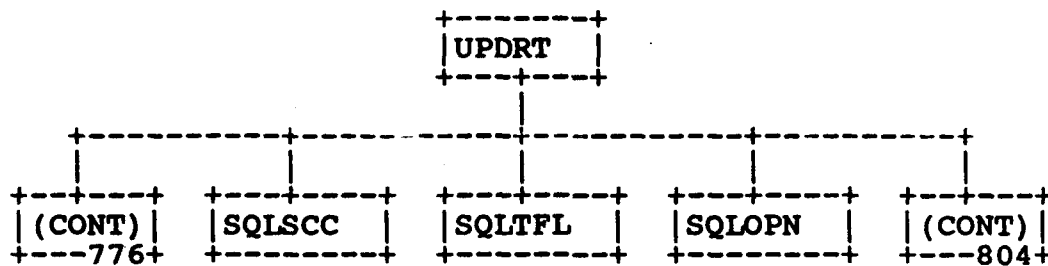
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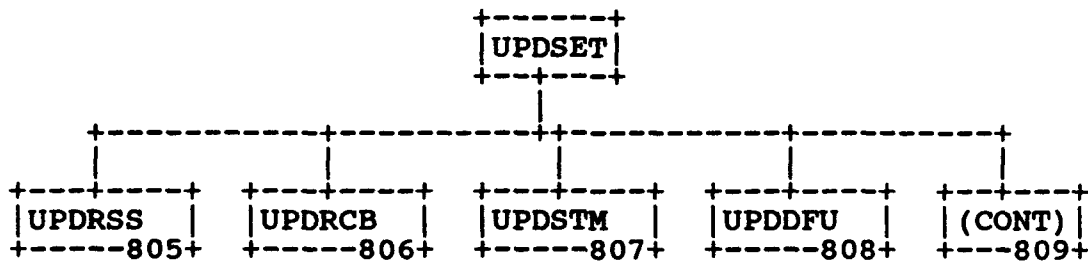
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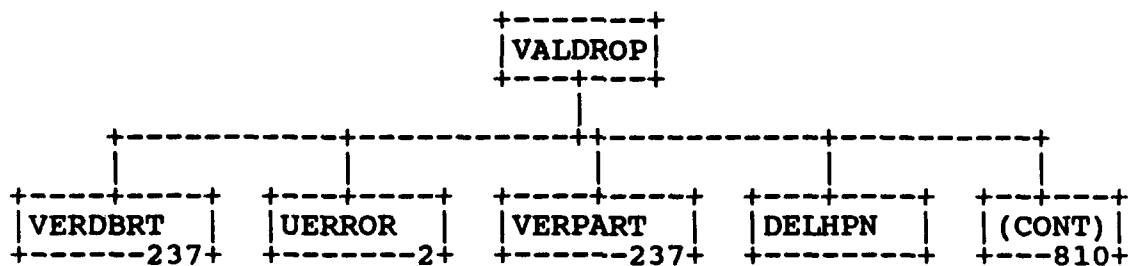
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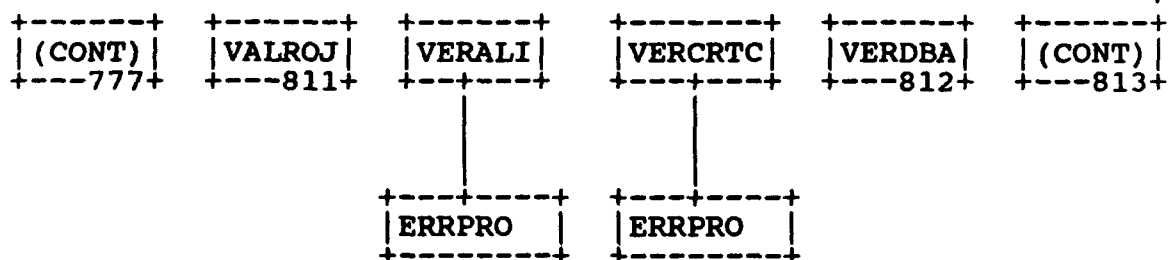
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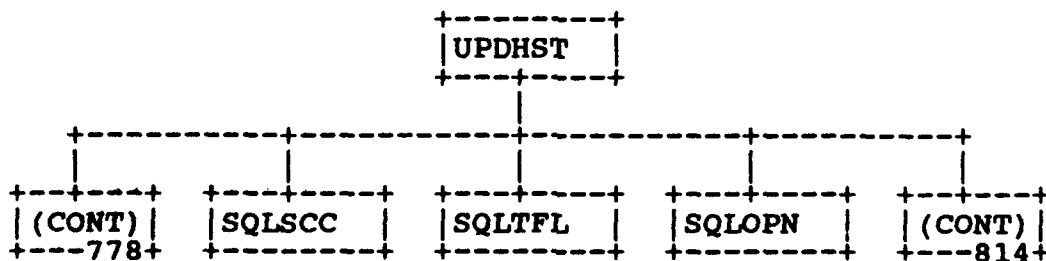
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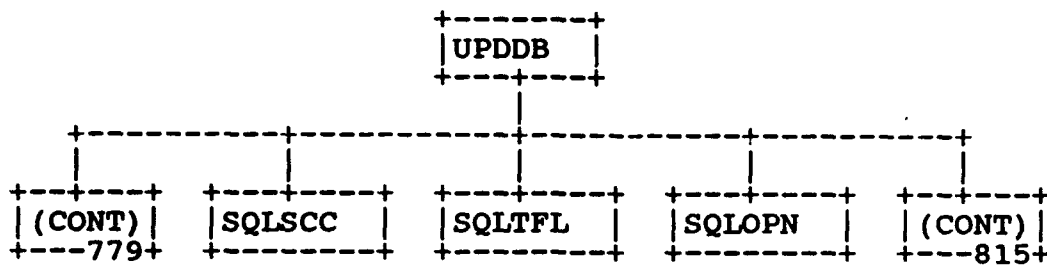
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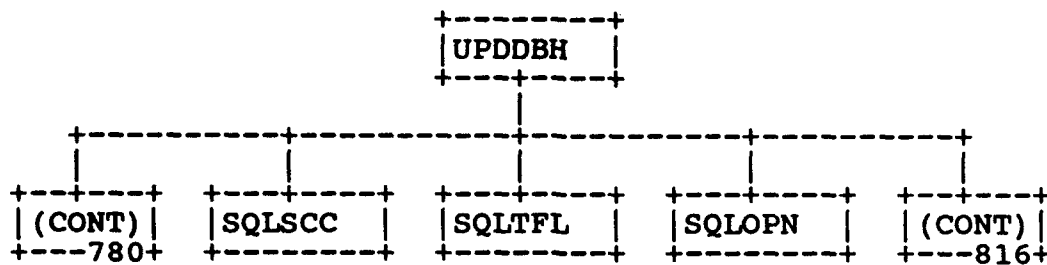
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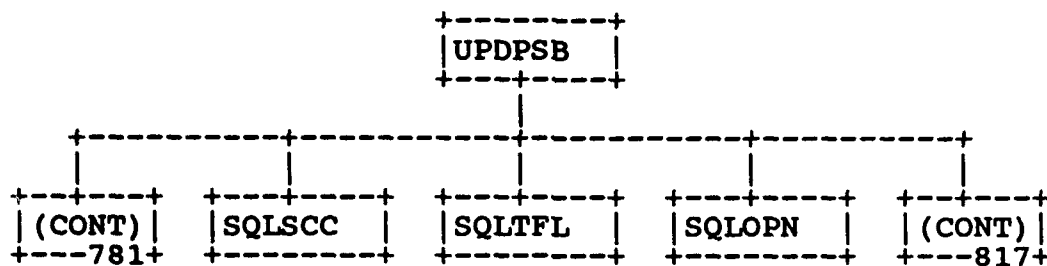
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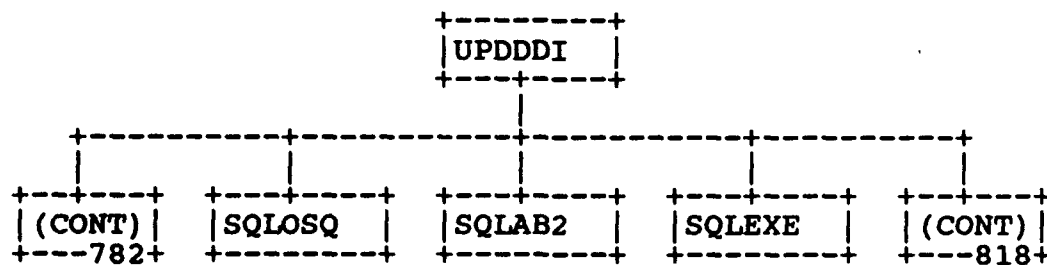
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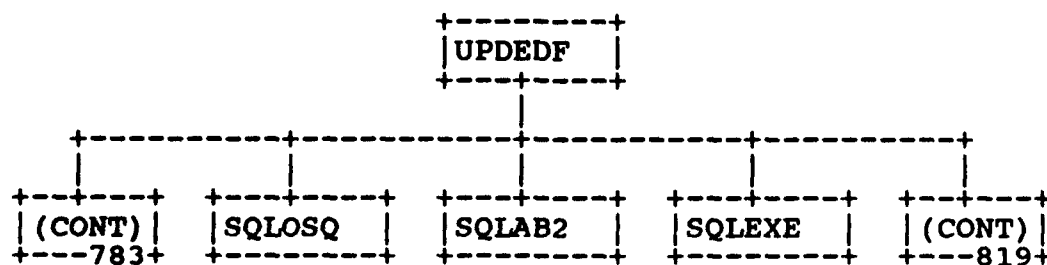
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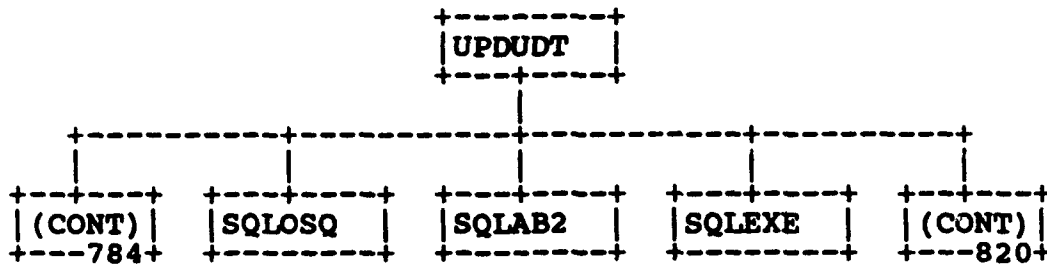
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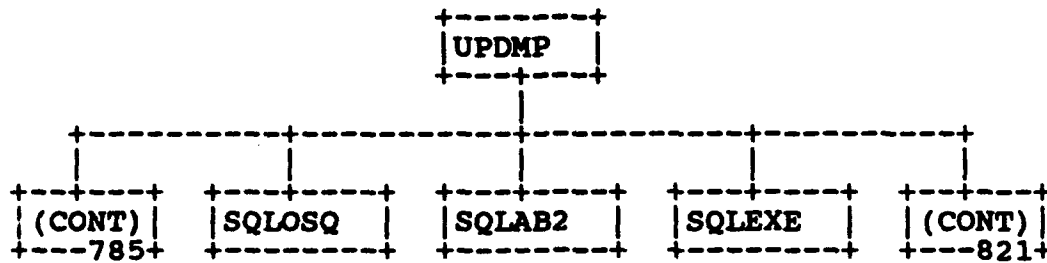
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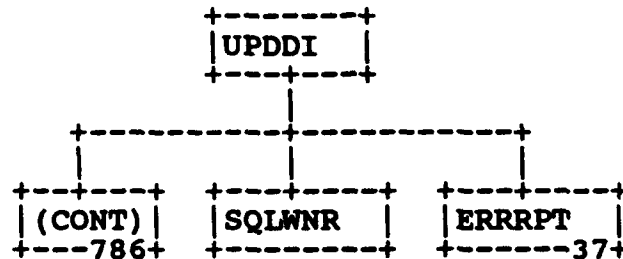
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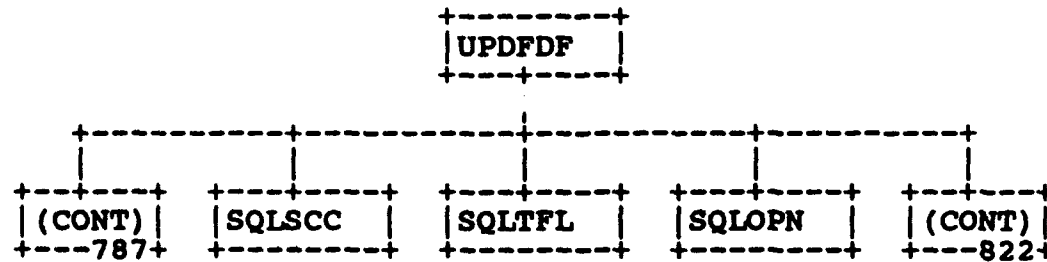
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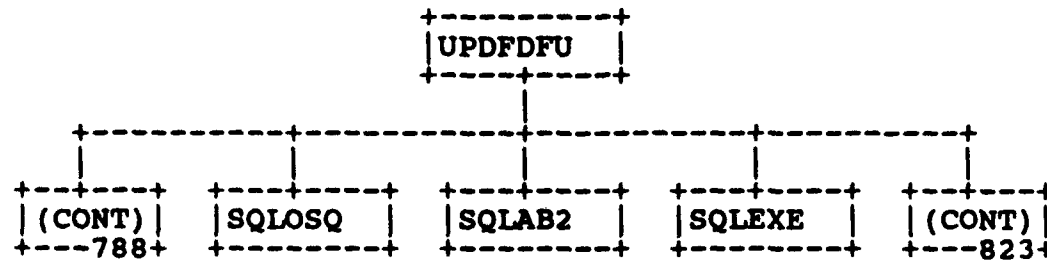
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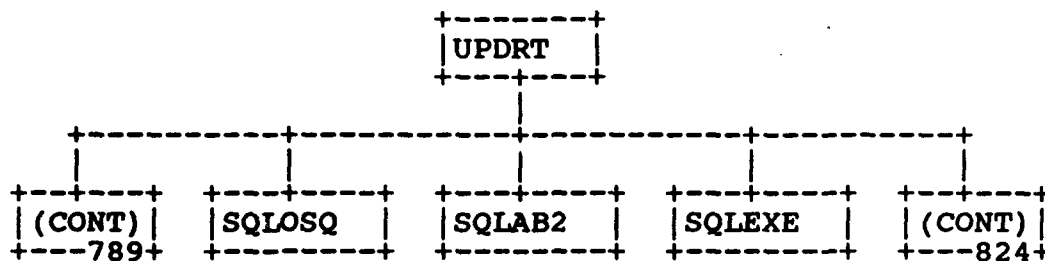
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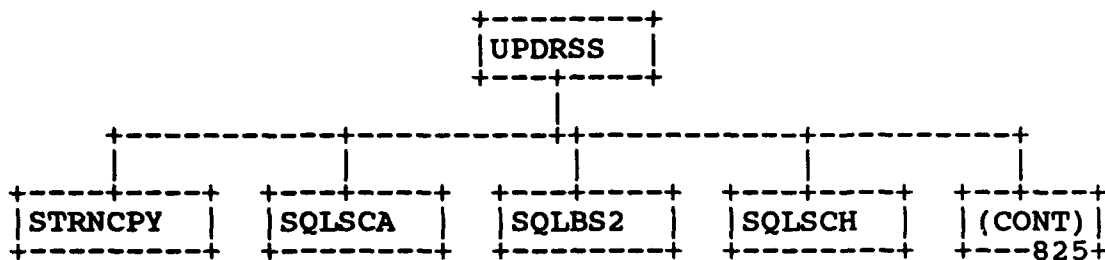
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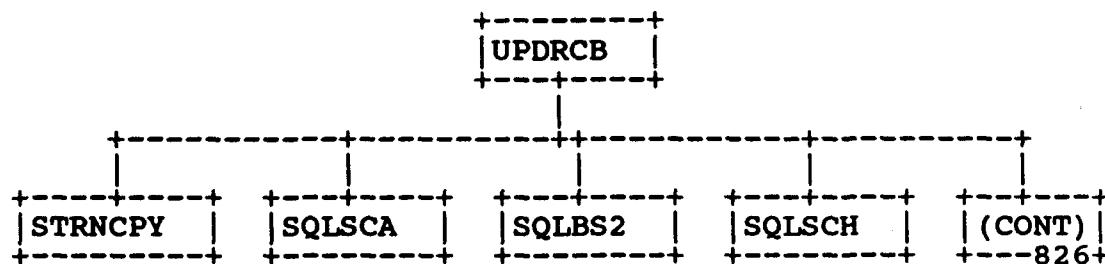
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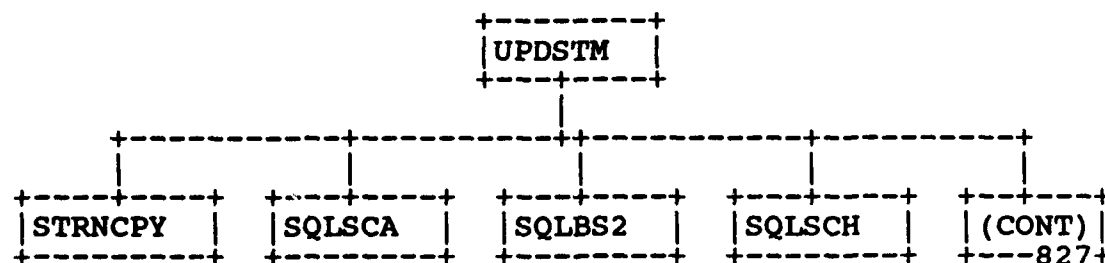
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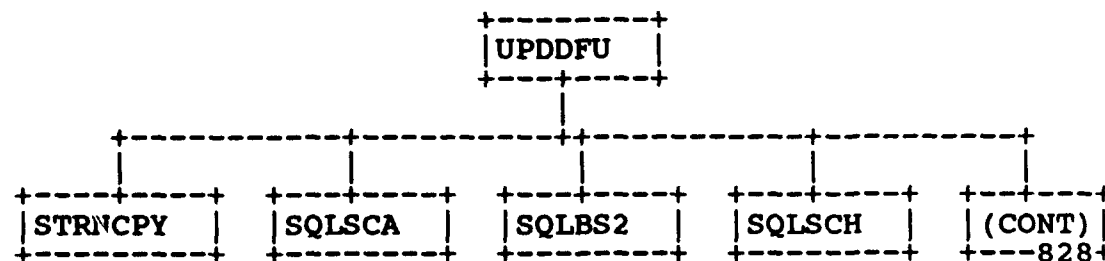
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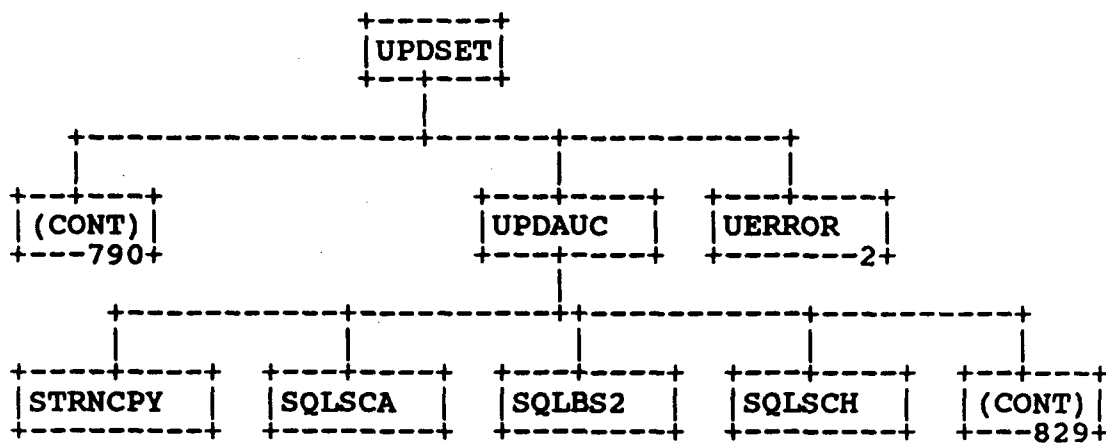
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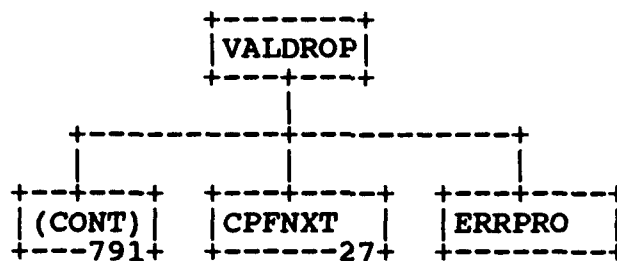
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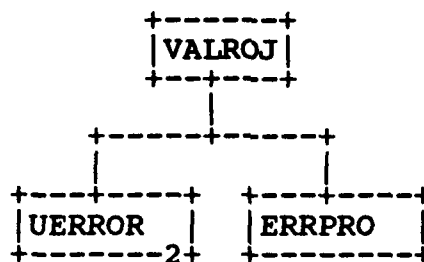
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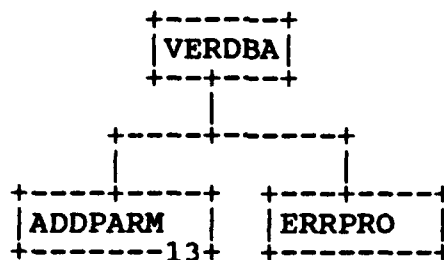
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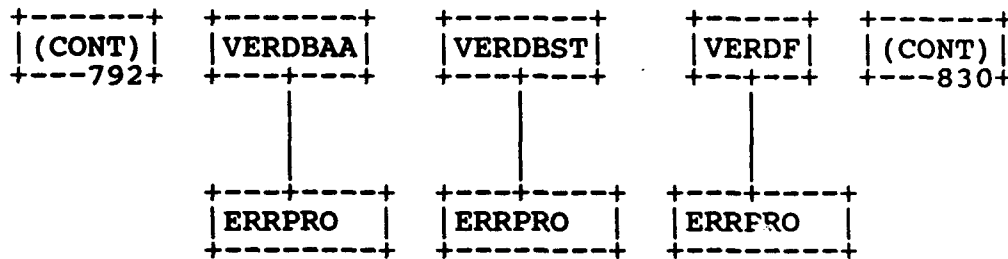
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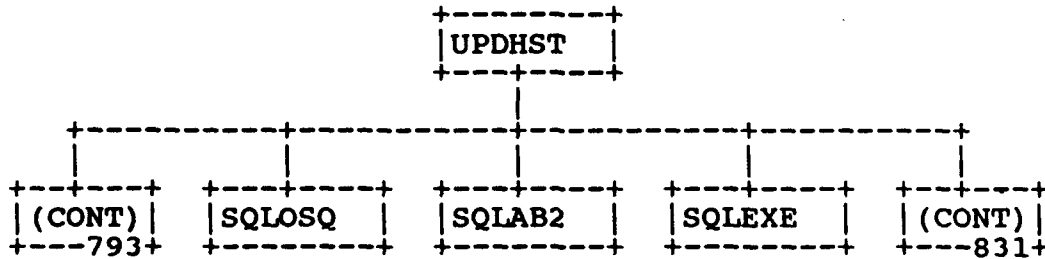
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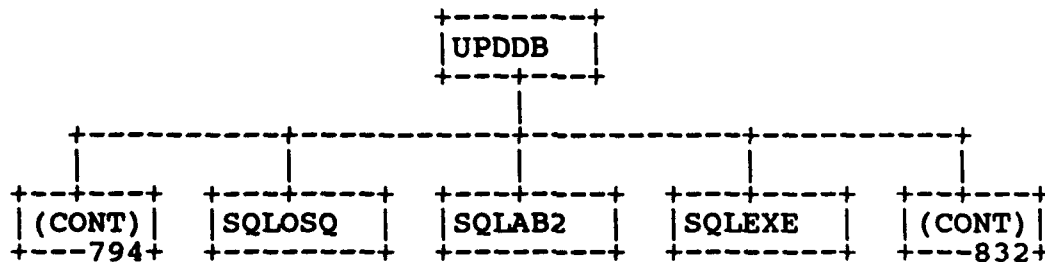
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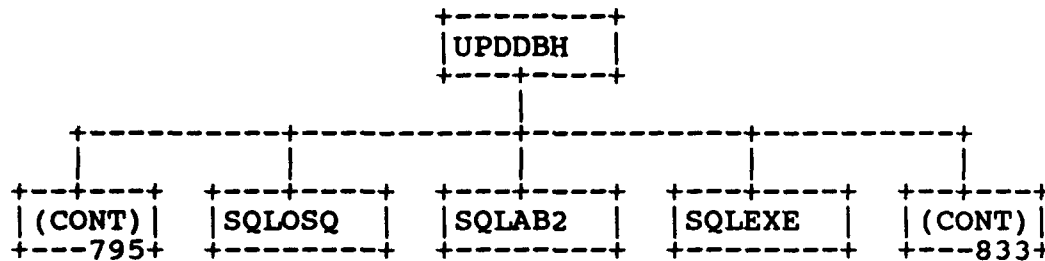
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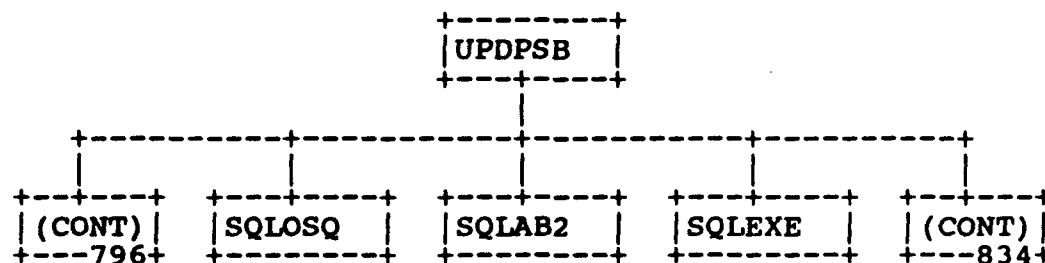
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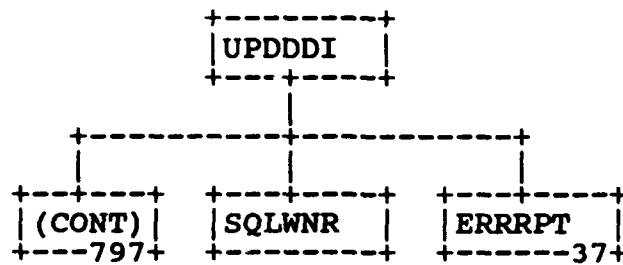
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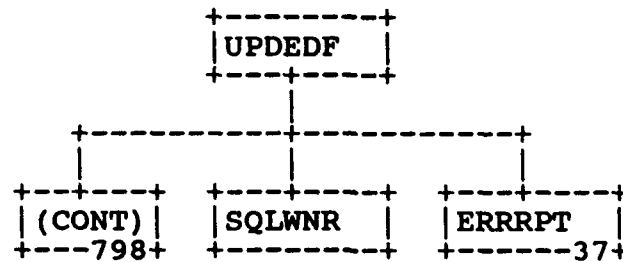
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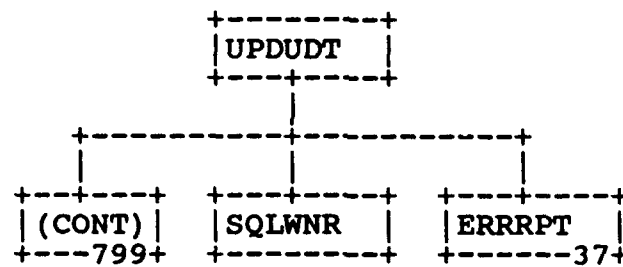
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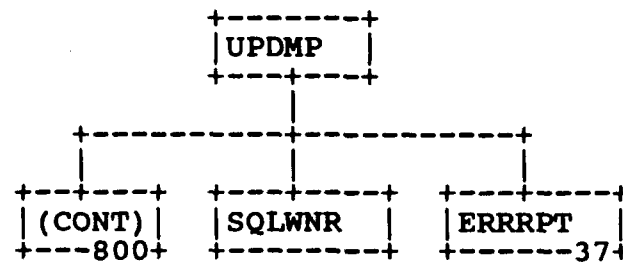
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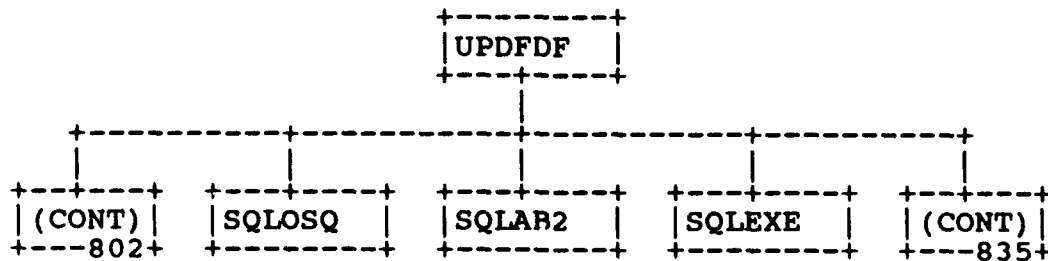
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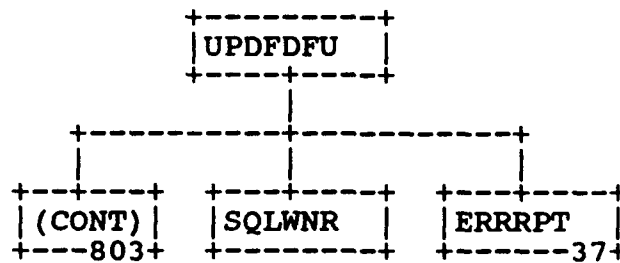
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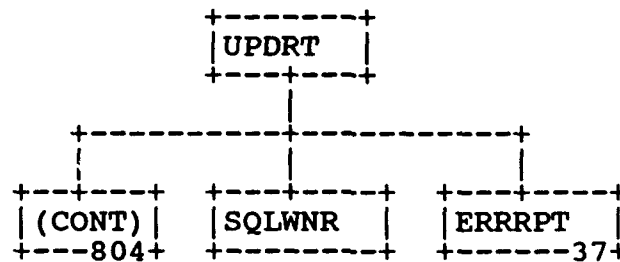
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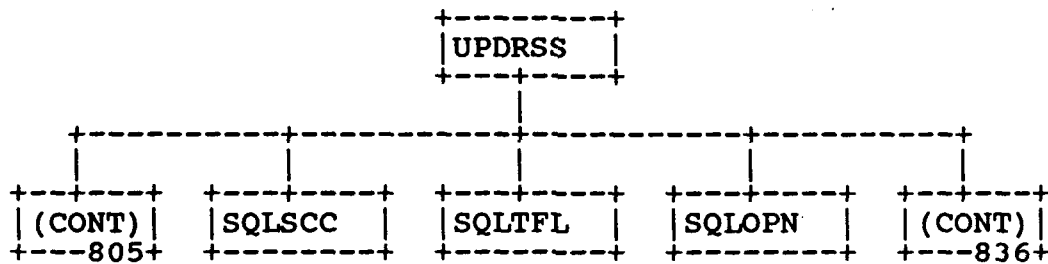
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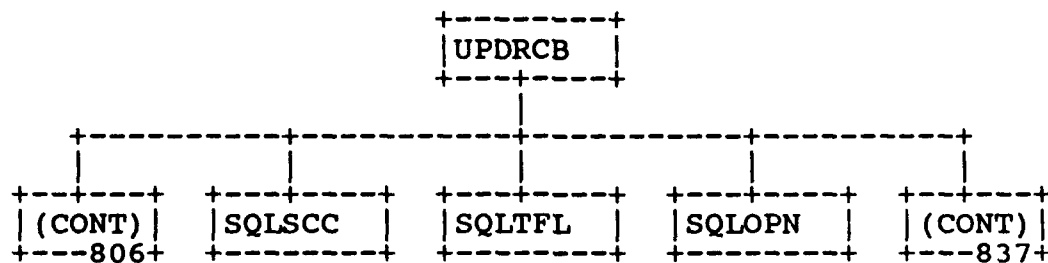
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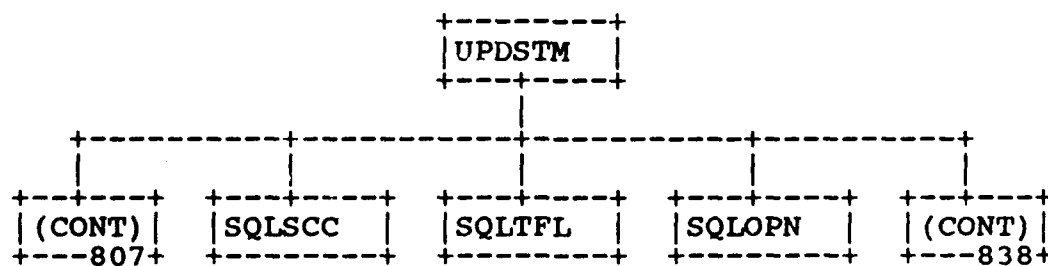
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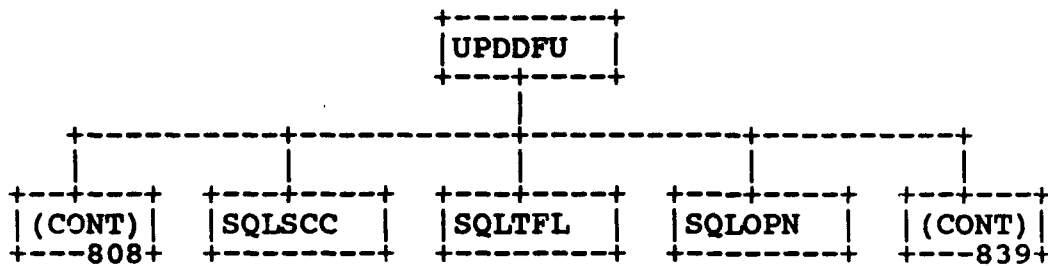
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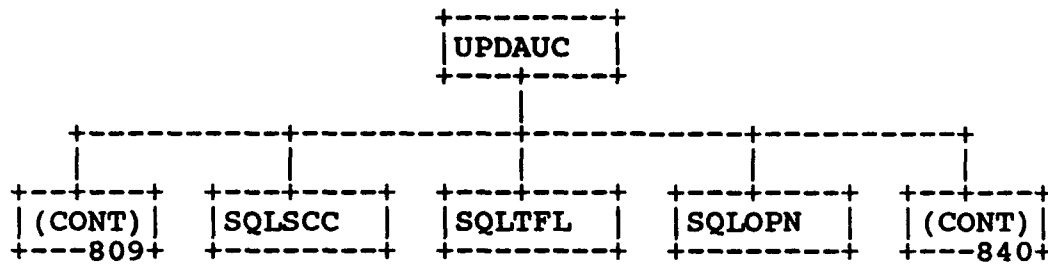
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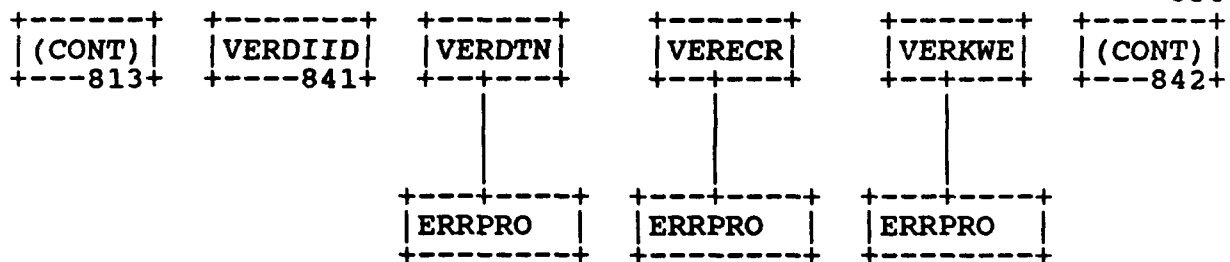
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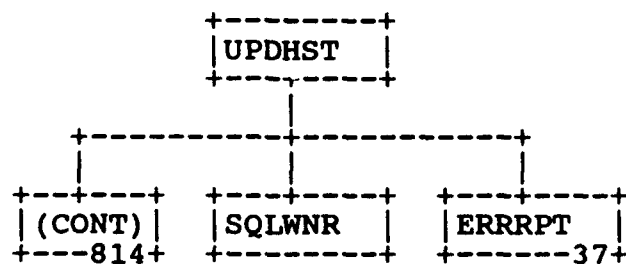
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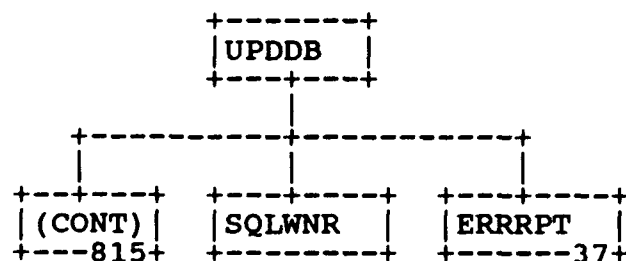
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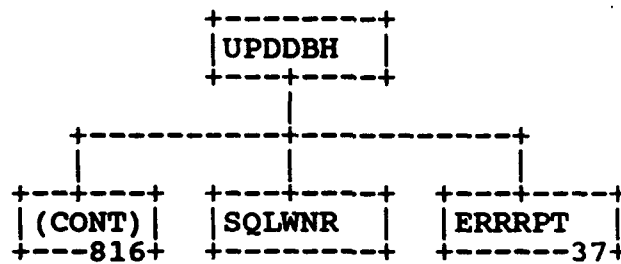
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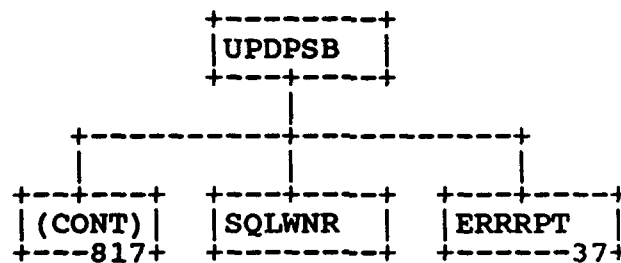
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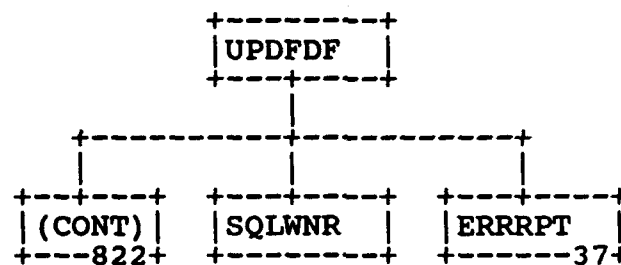
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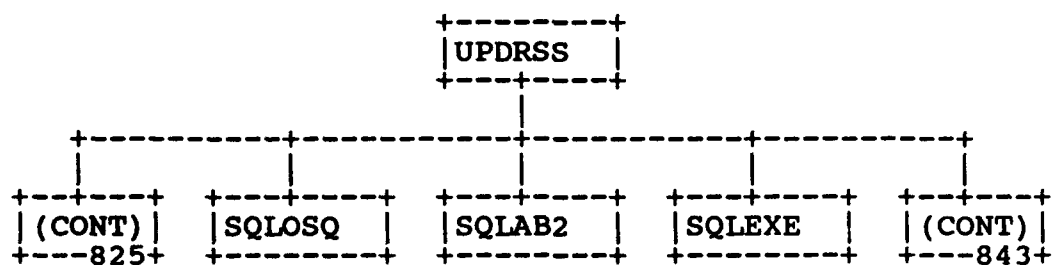
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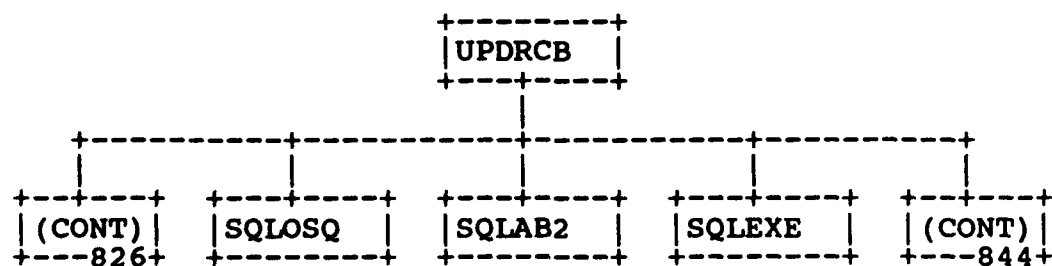
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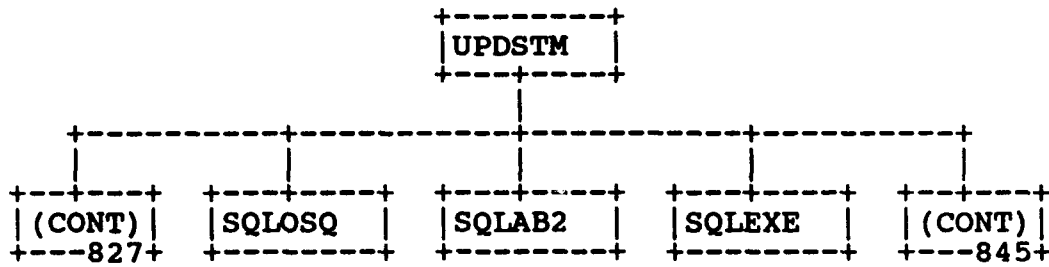
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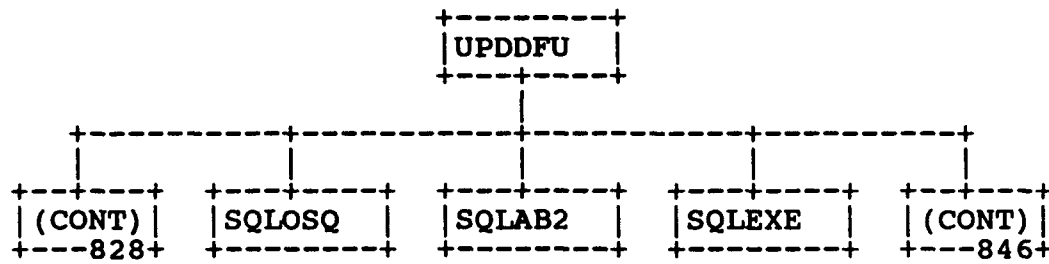
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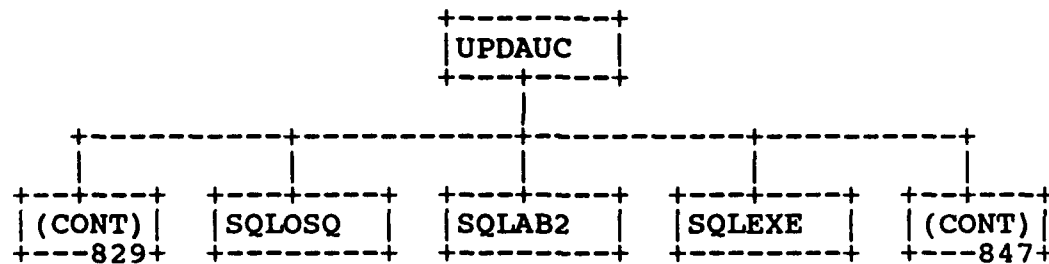
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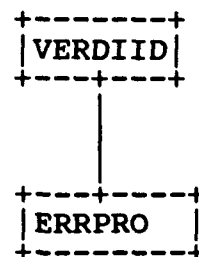
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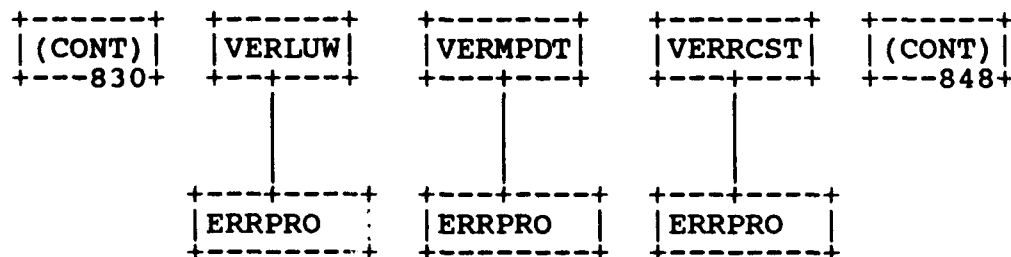
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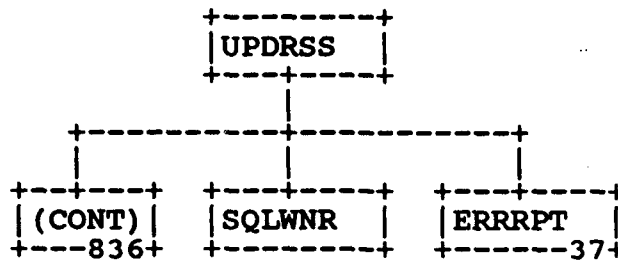
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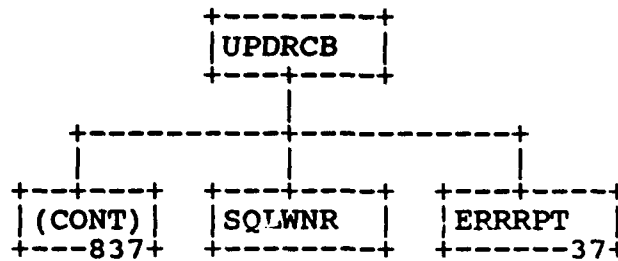
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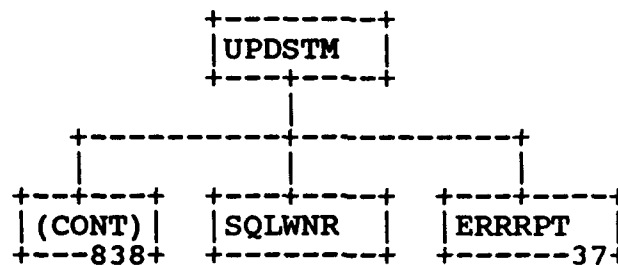
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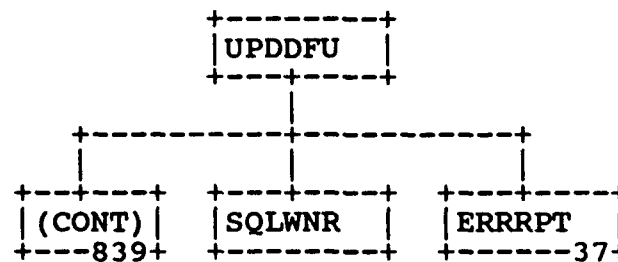
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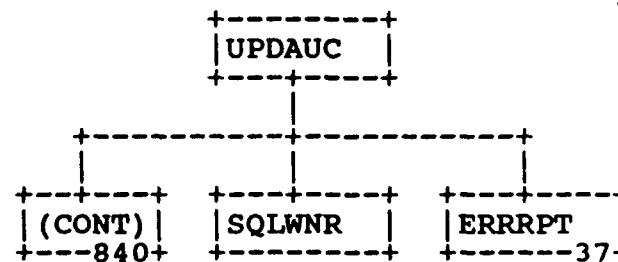
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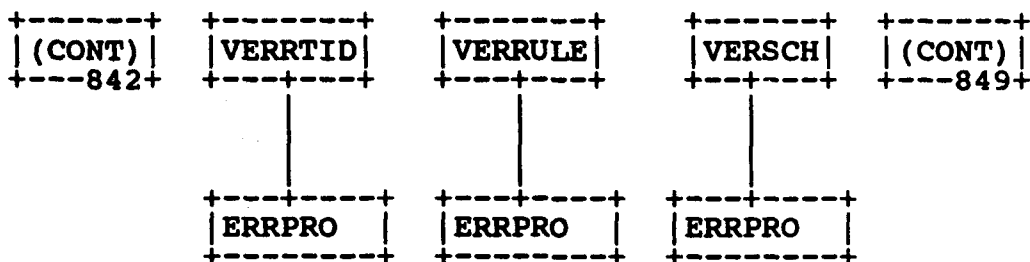
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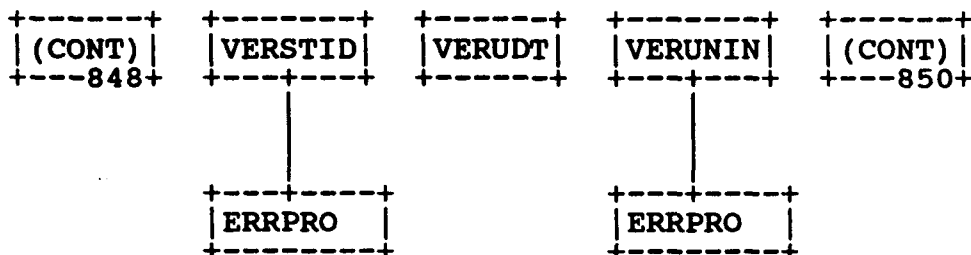
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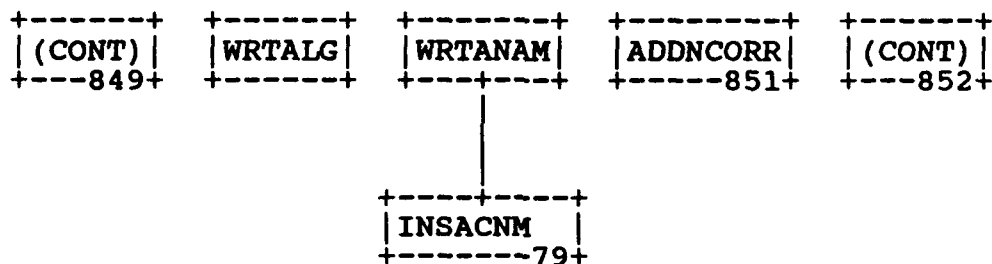
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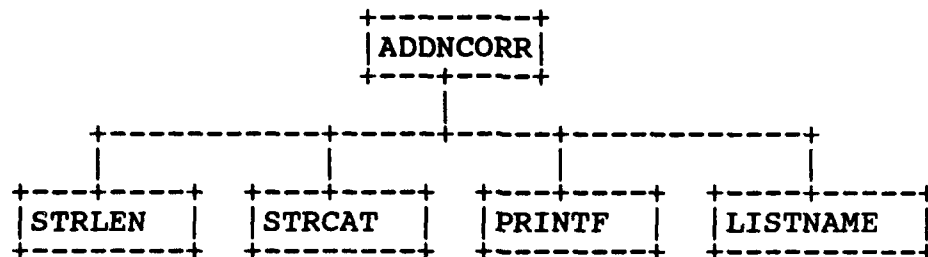
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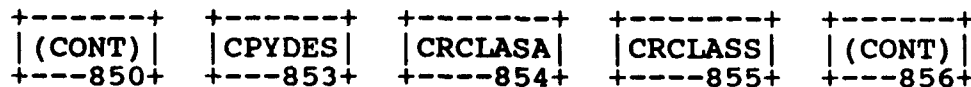
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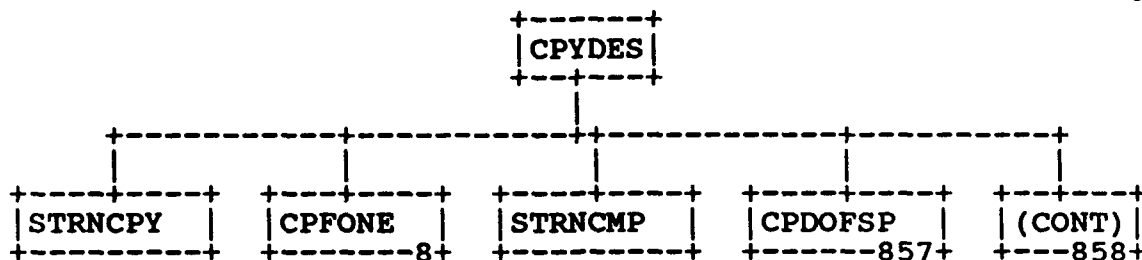
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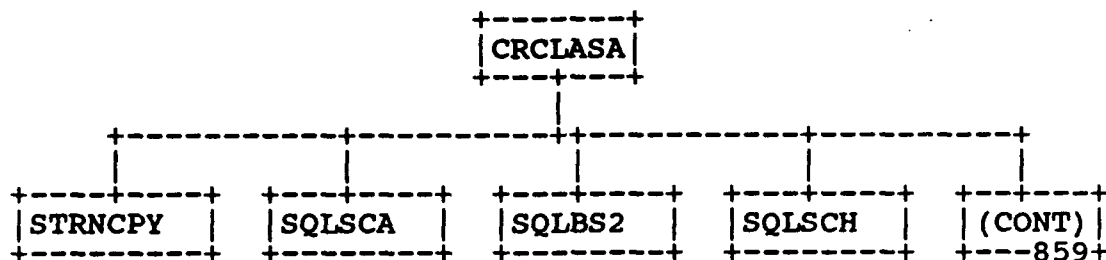
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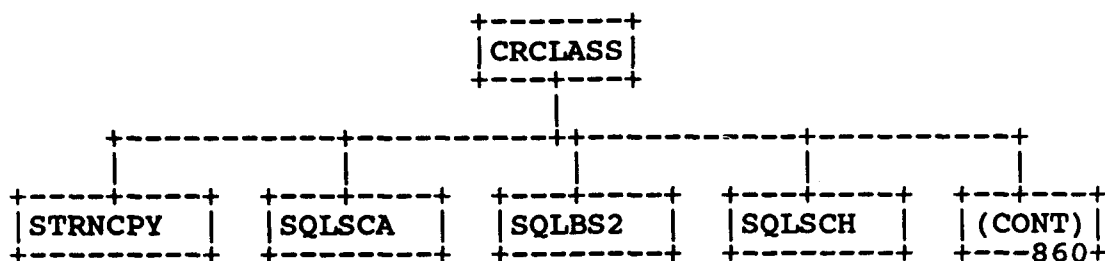
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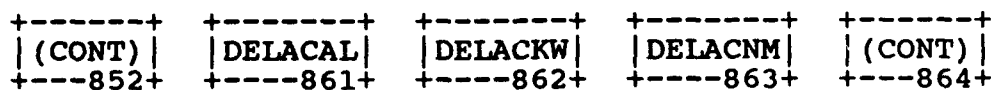
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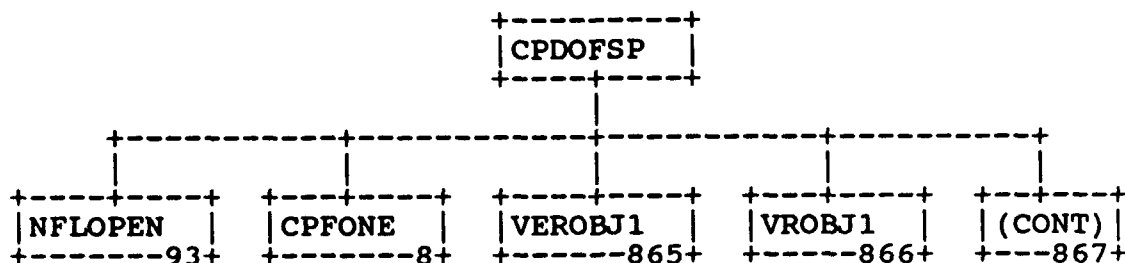
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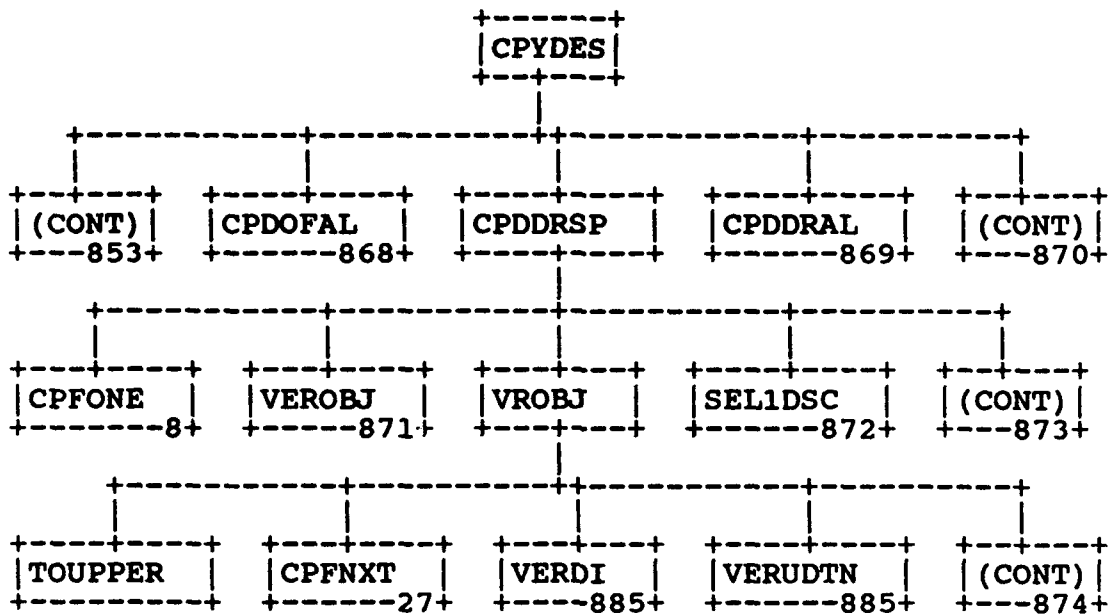
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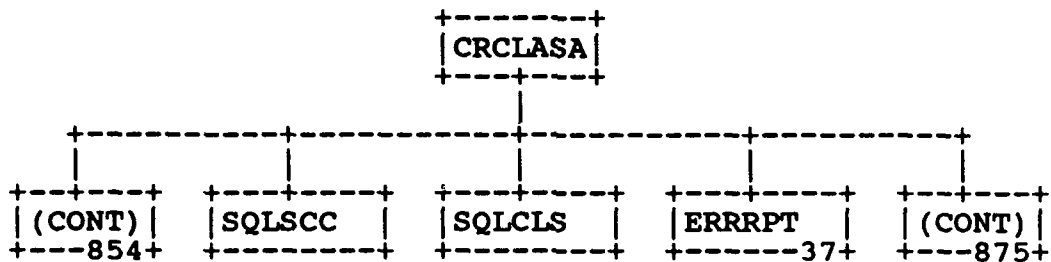
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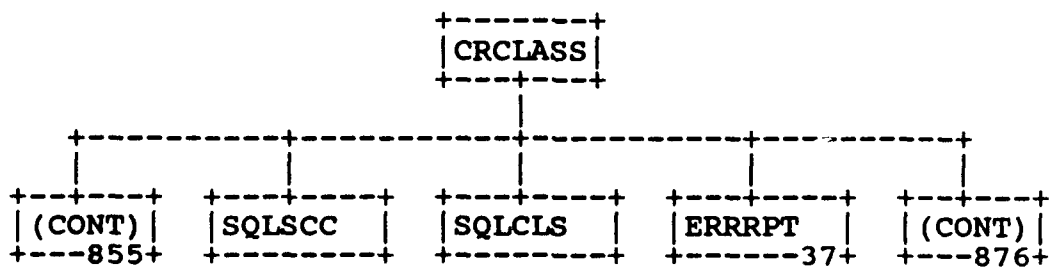
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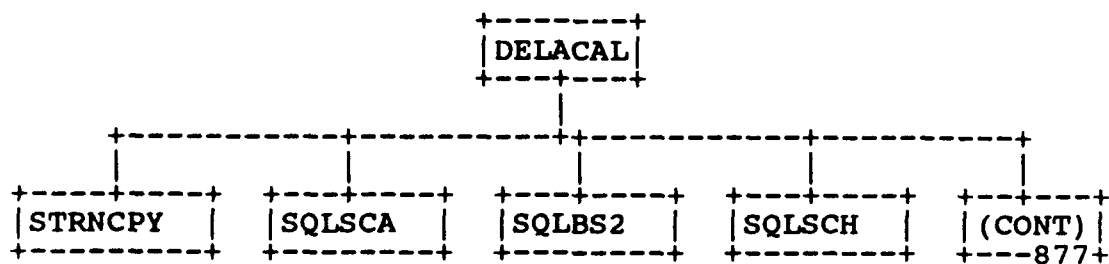
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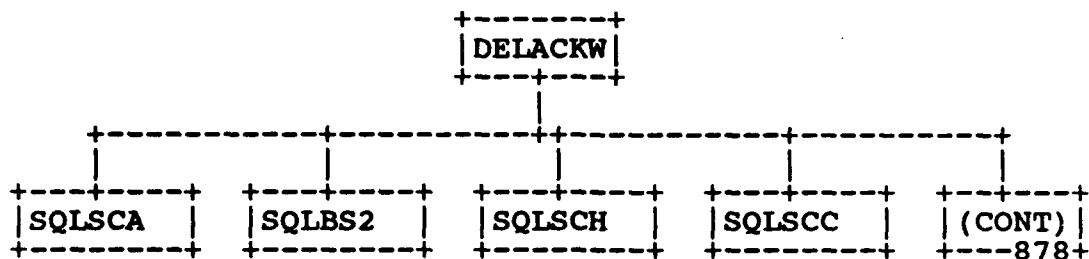
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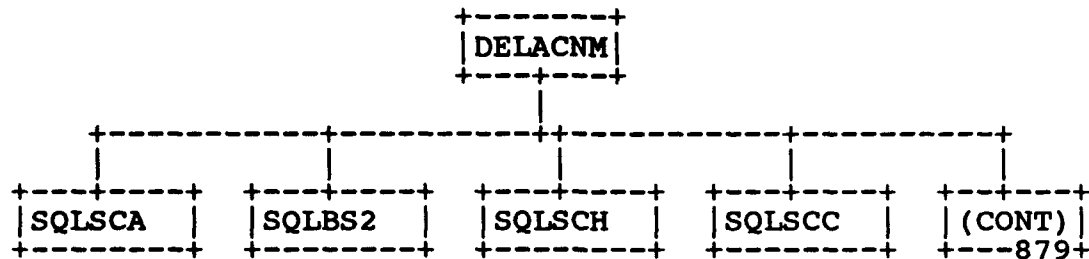
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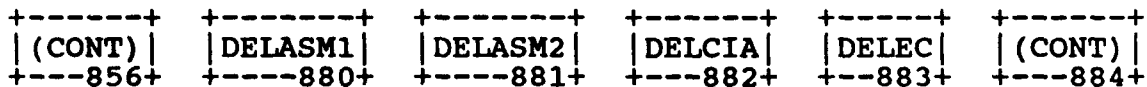
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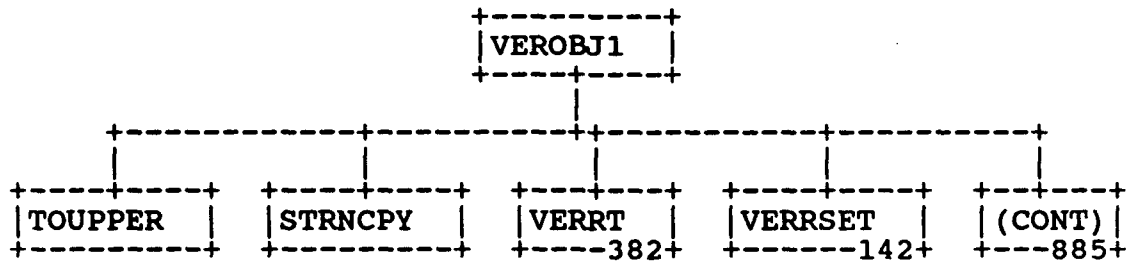
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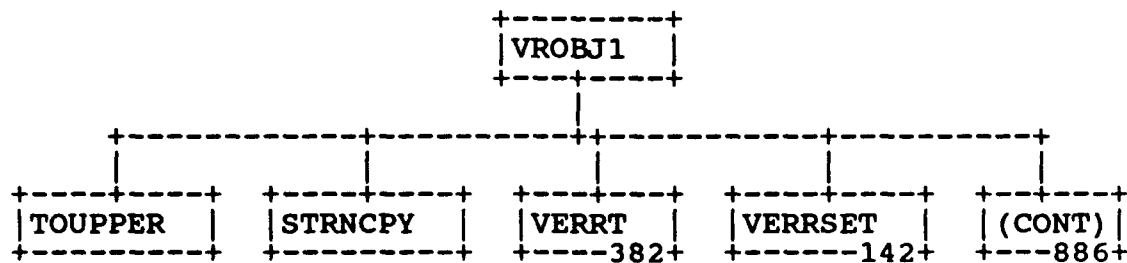
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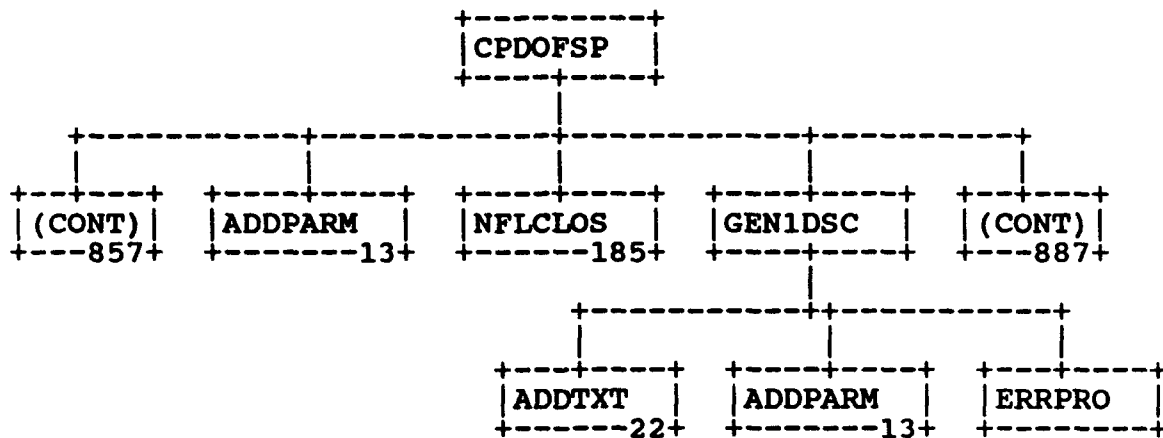
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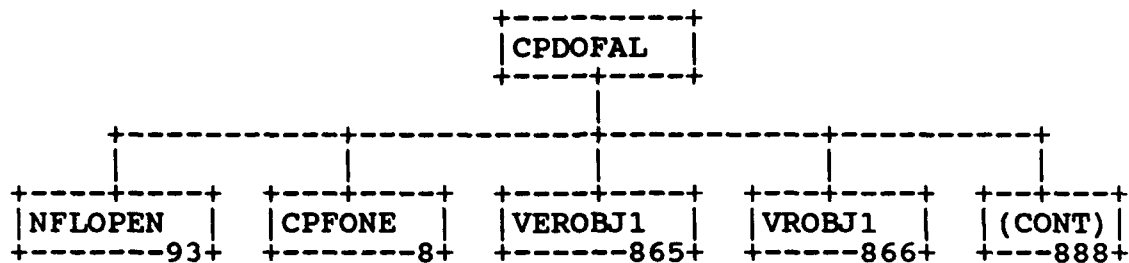
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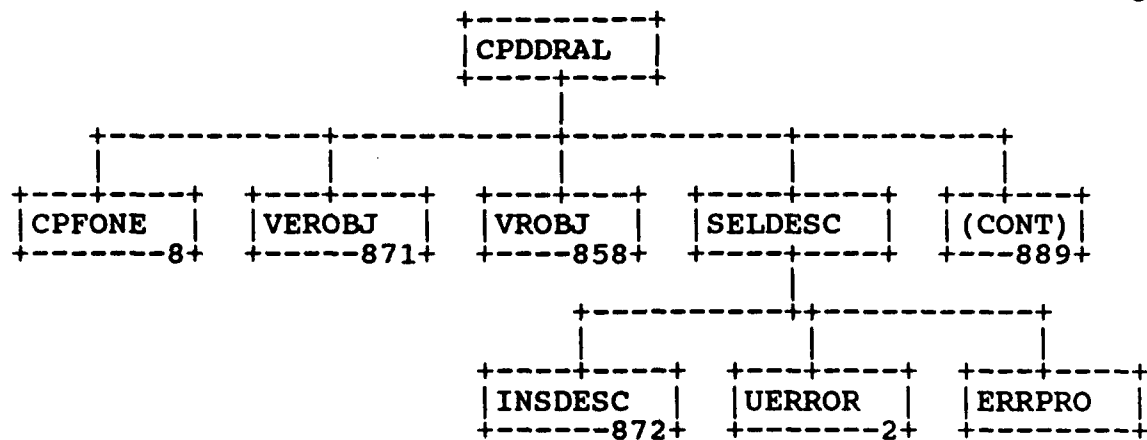
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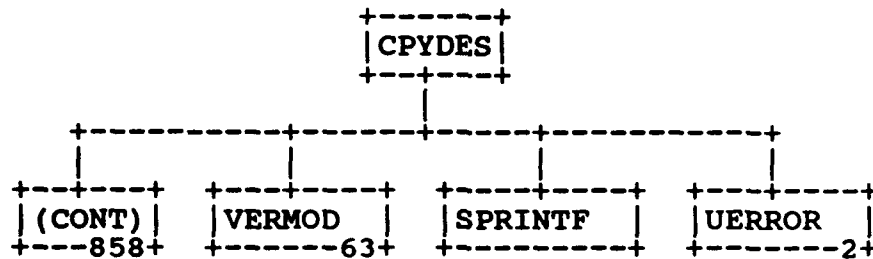
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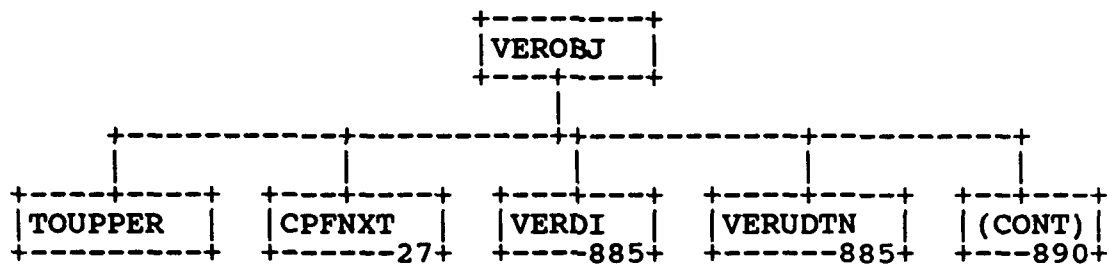
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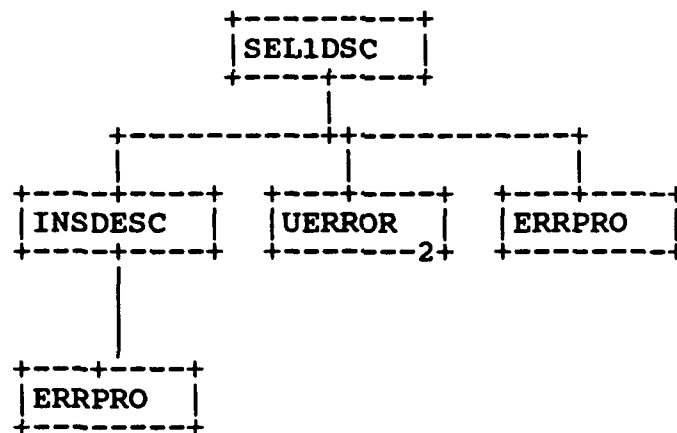
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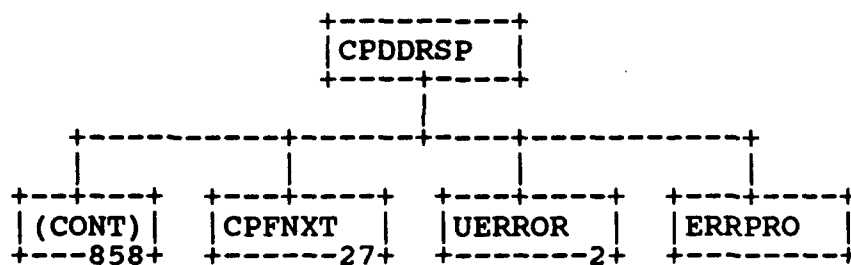
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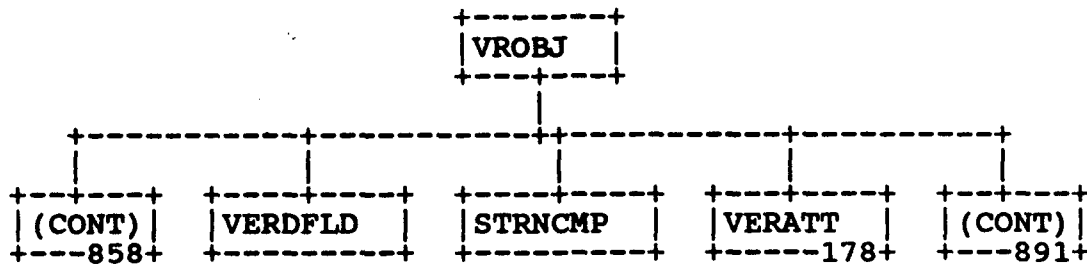
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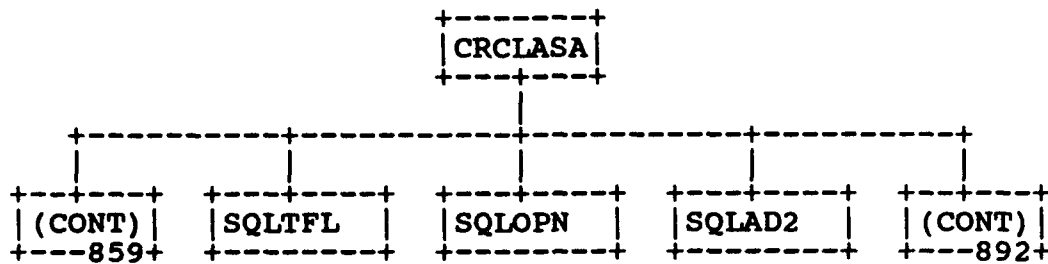
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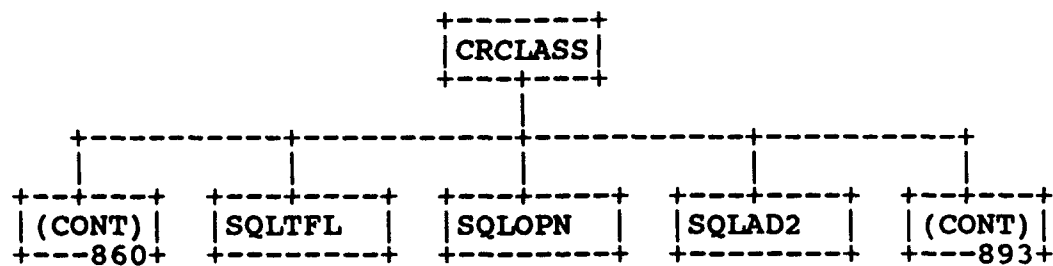
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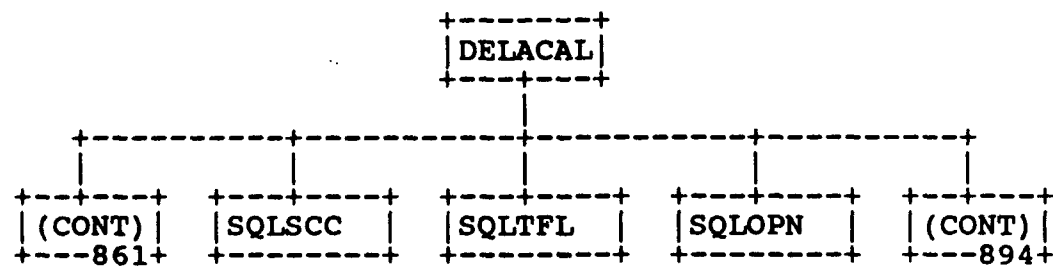
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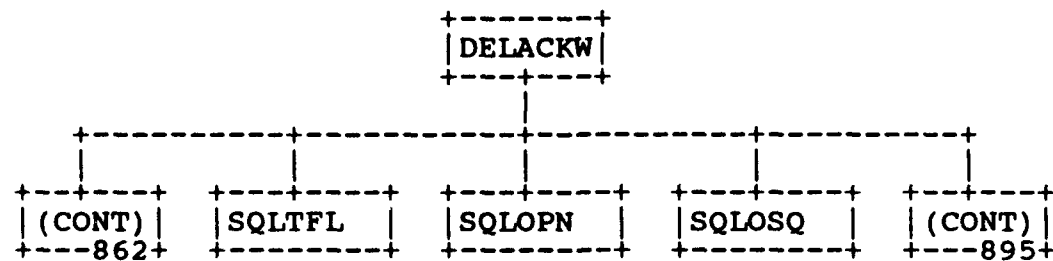
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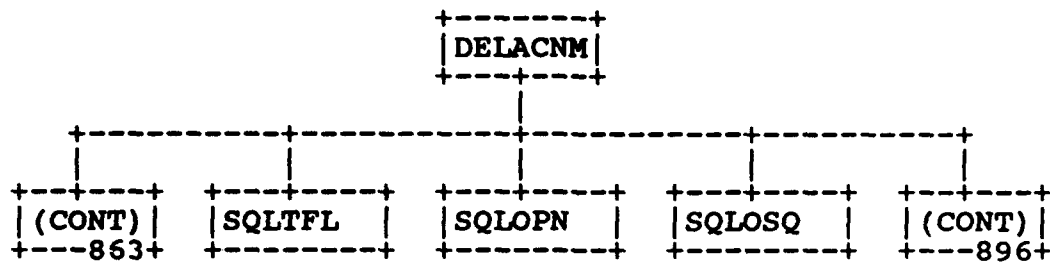
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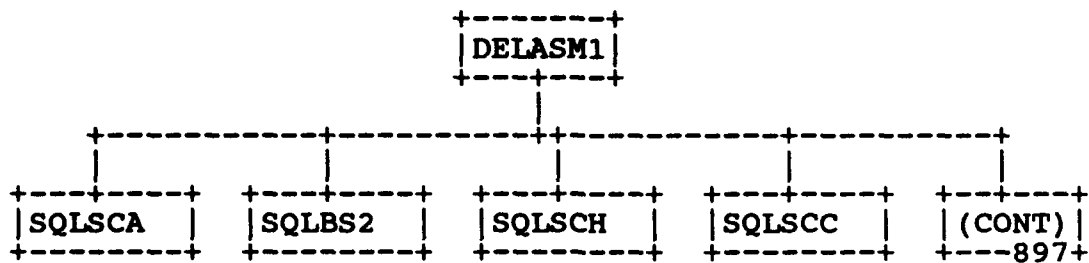
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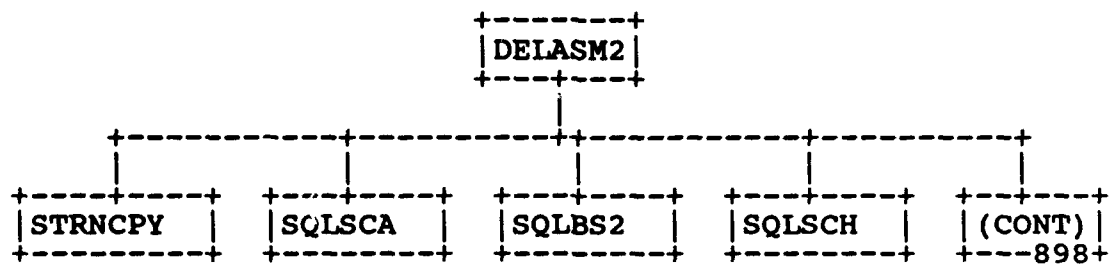
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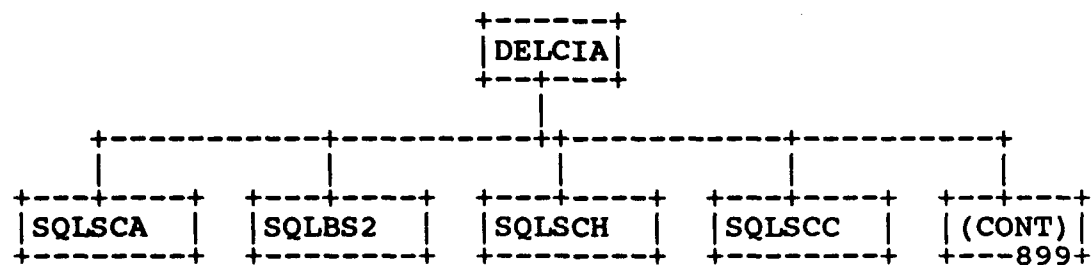
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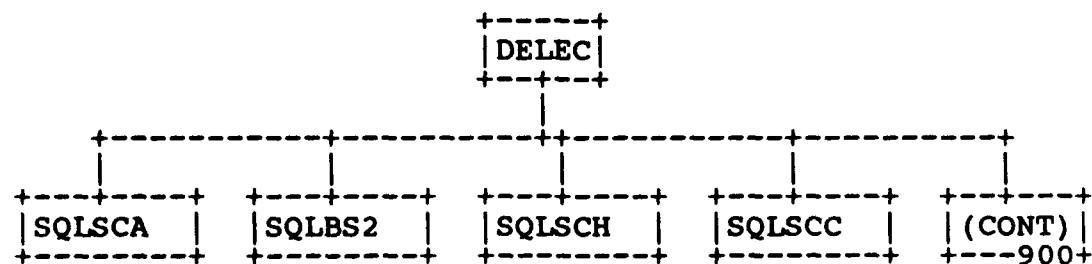
881



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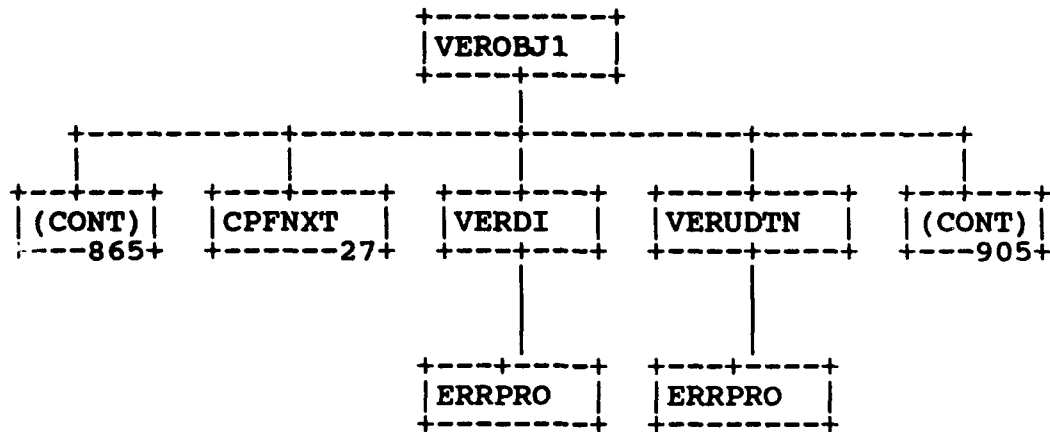
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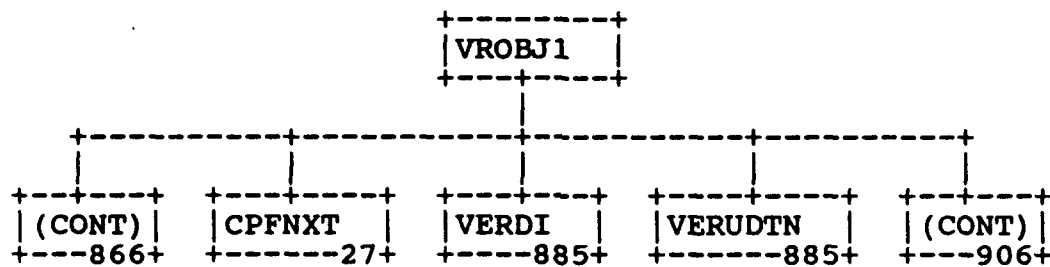
884

(CONT)	DELECKW	DELECNM	DELIAUK	(CONT)
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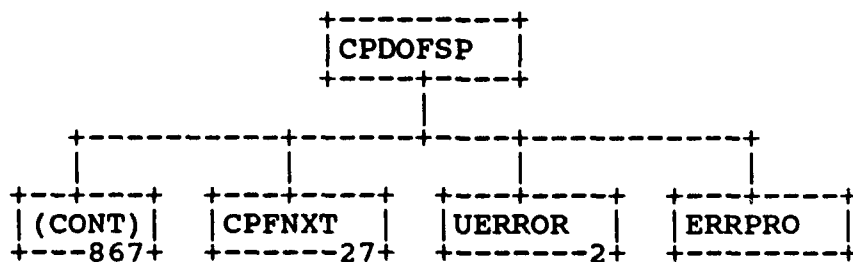
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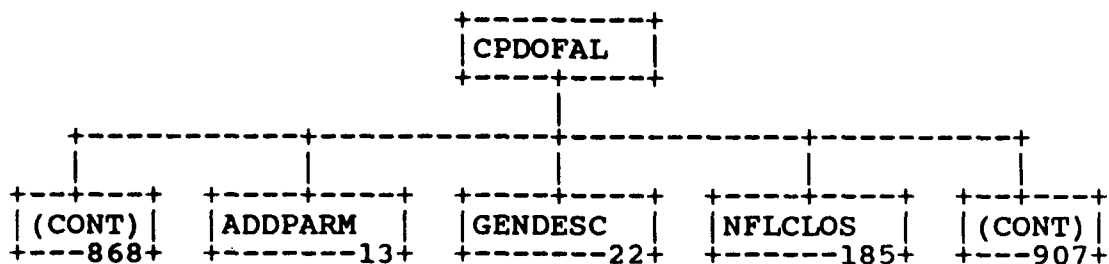
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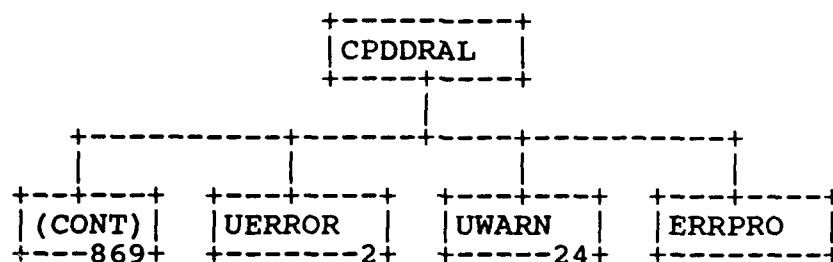
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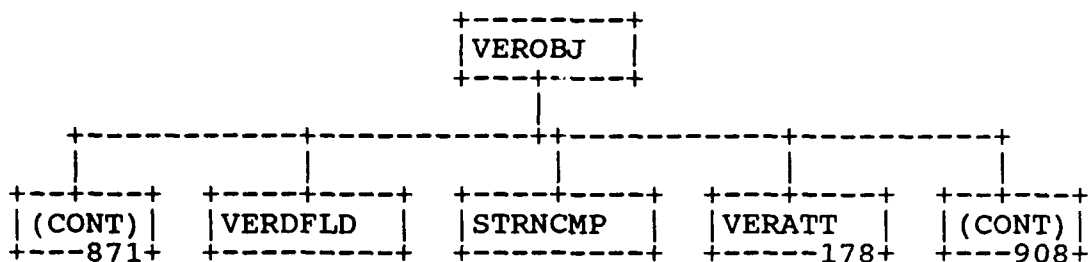
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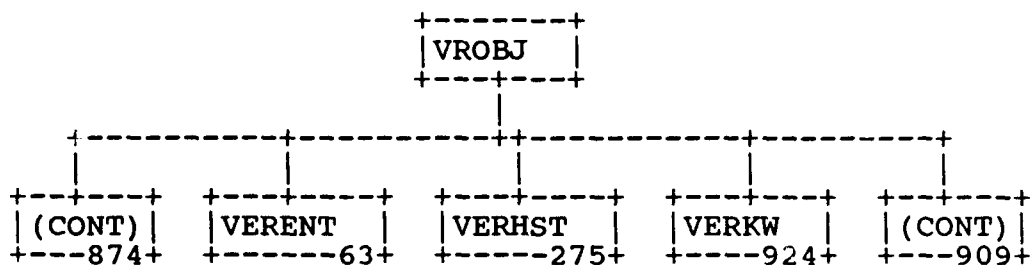
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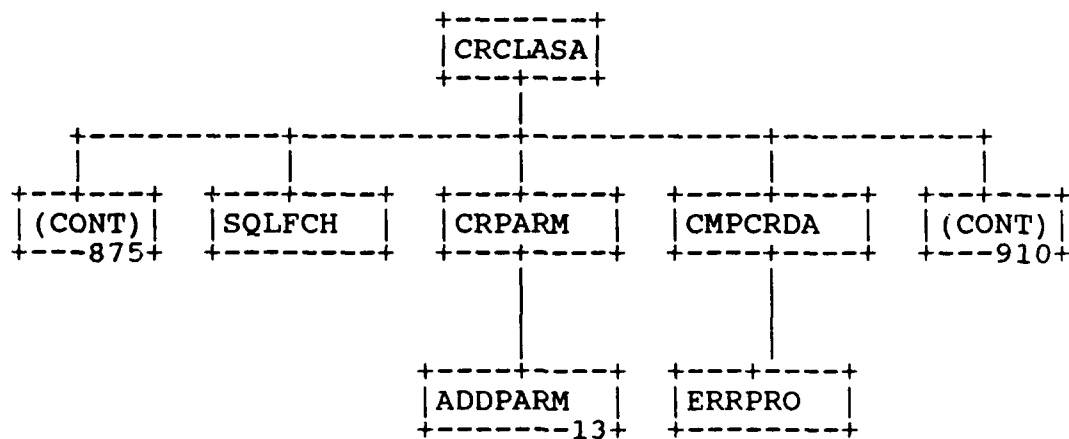
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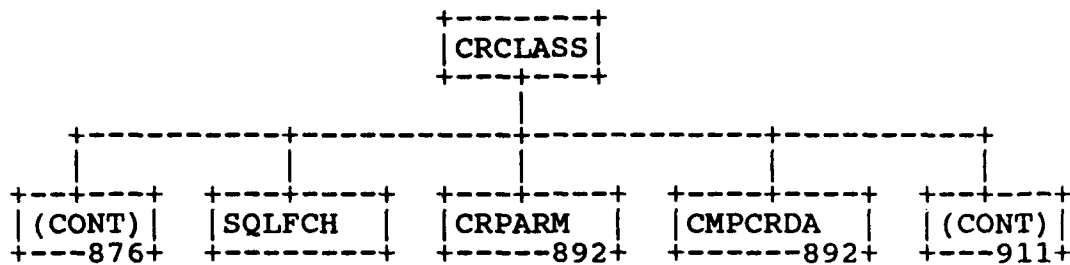
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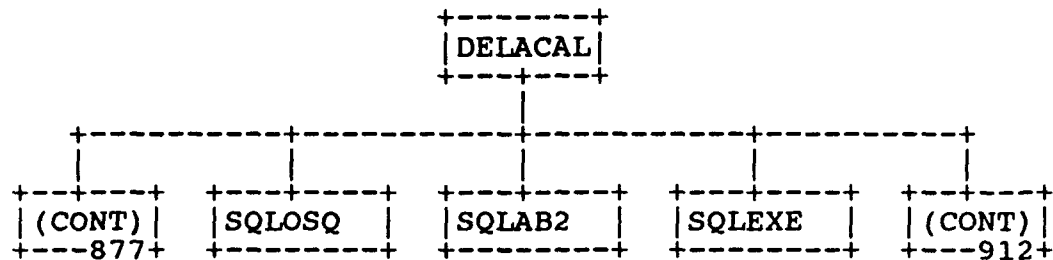
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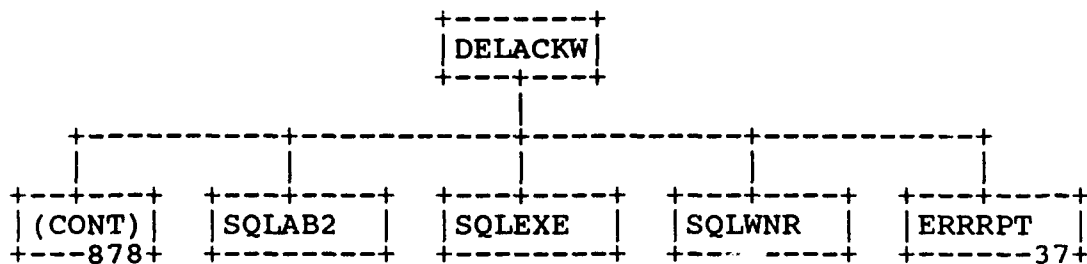
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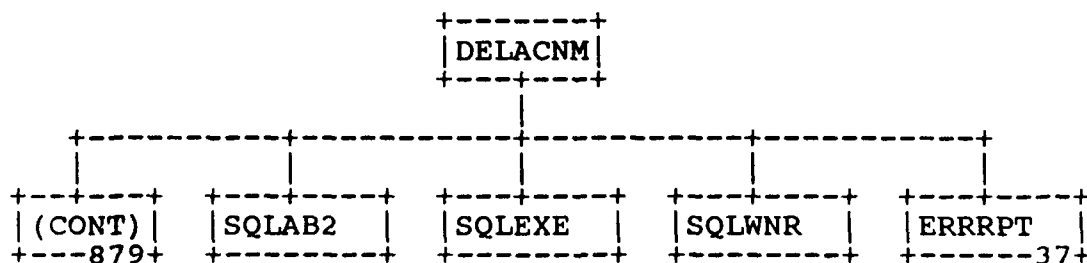
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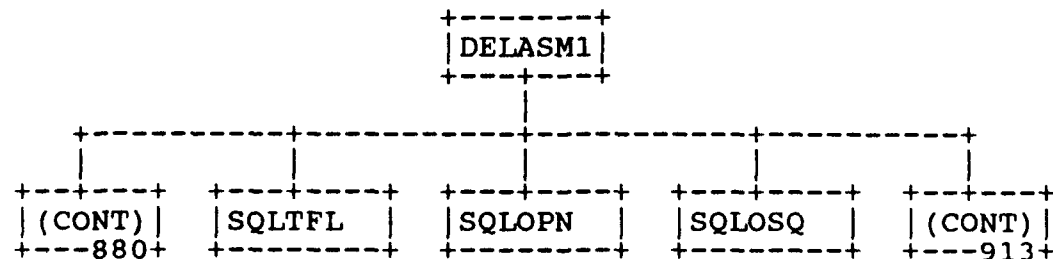
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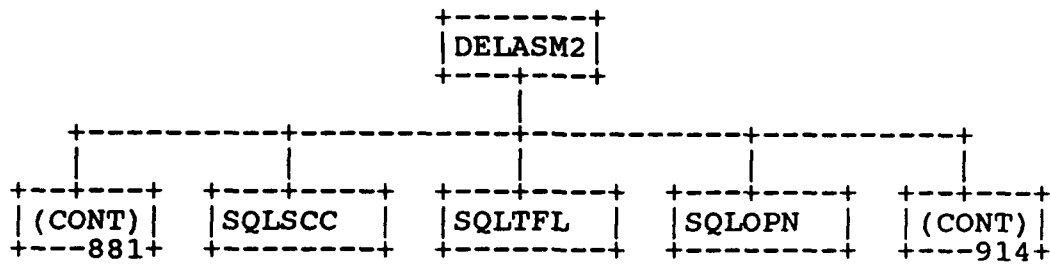
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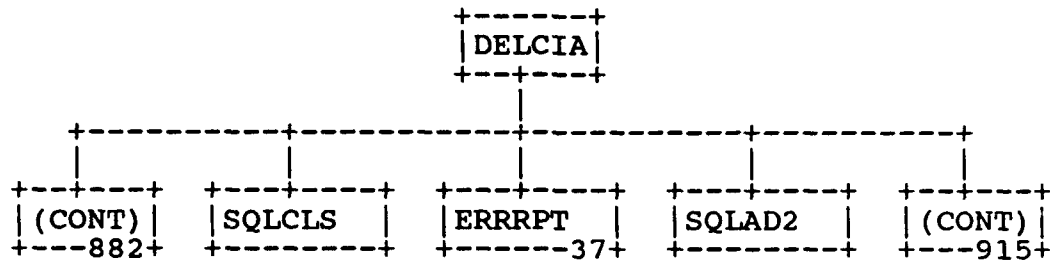
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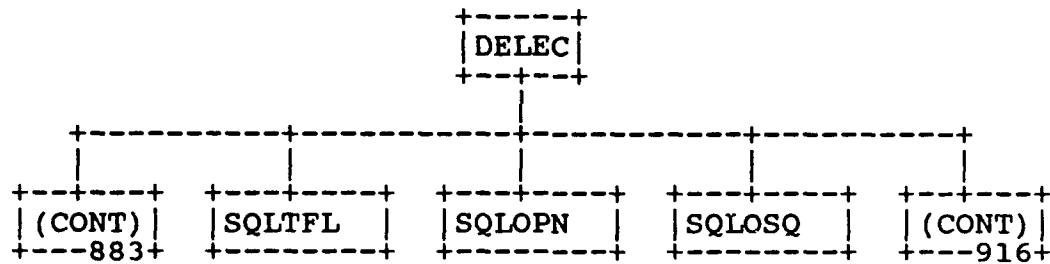
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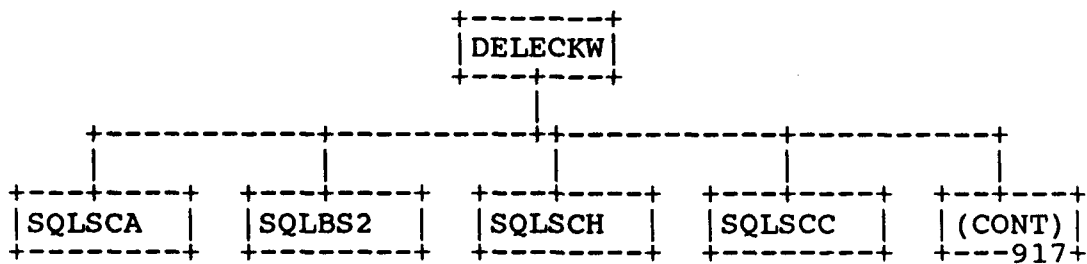
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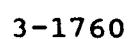


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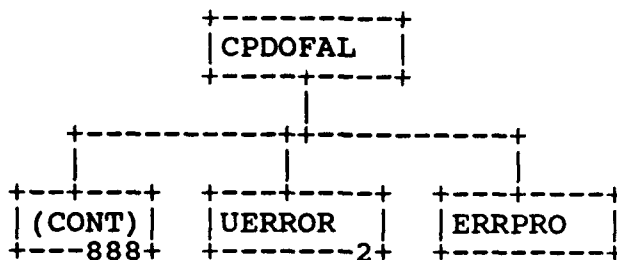


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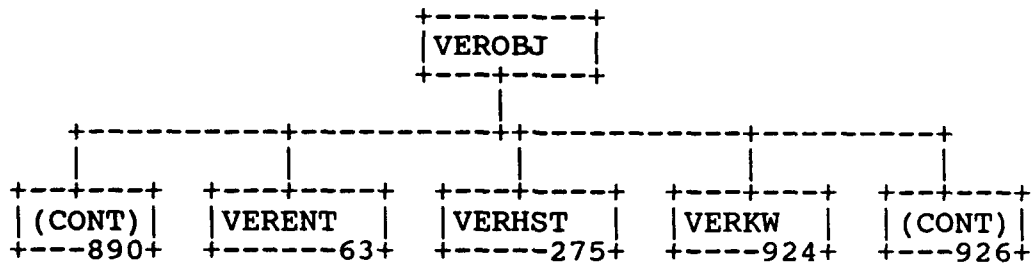




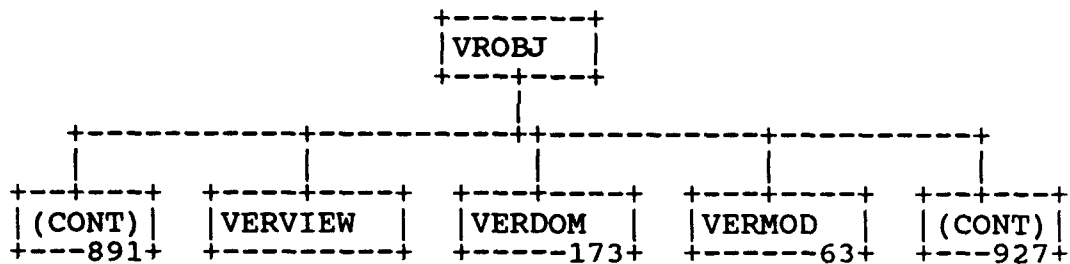
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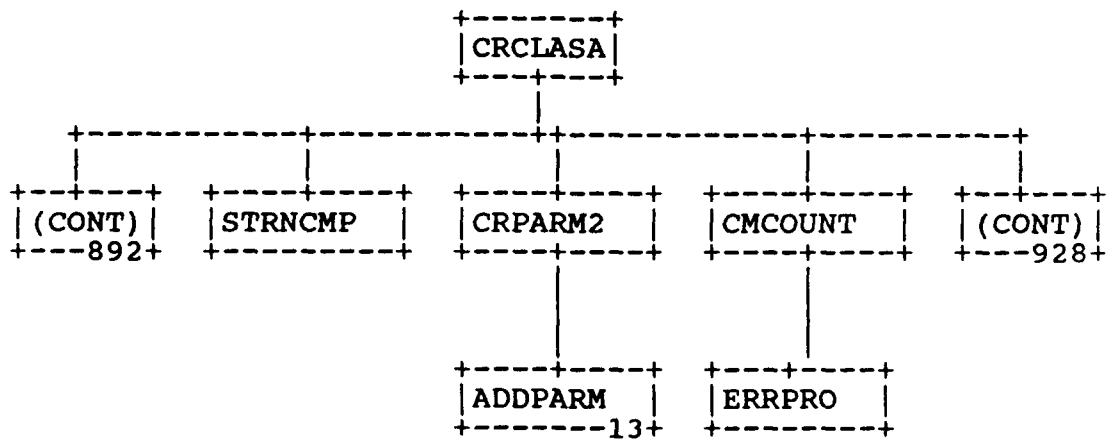
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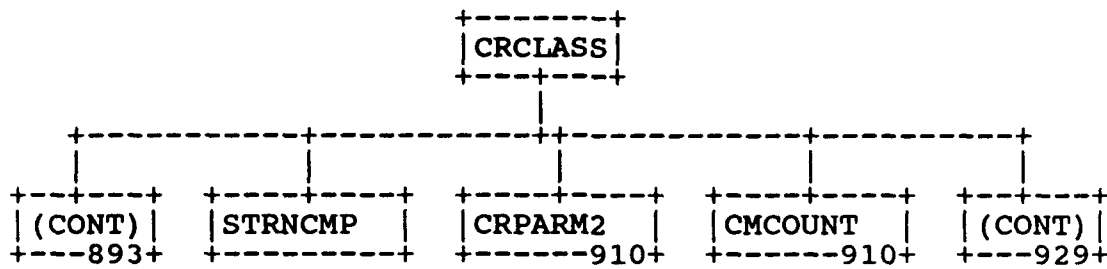
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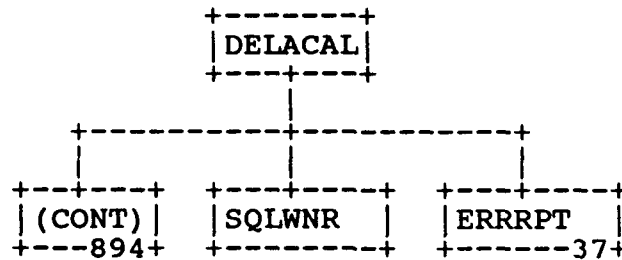
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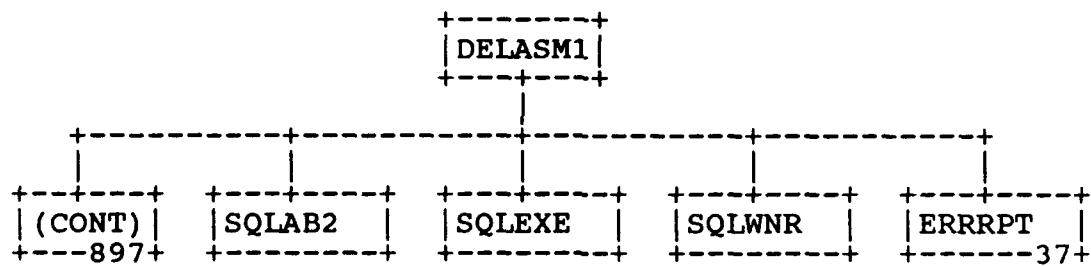
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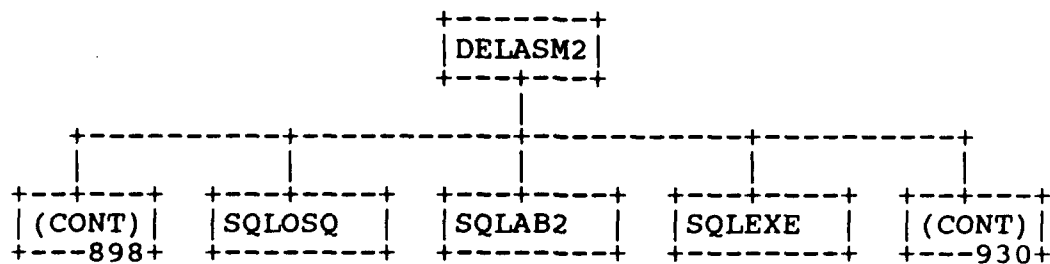
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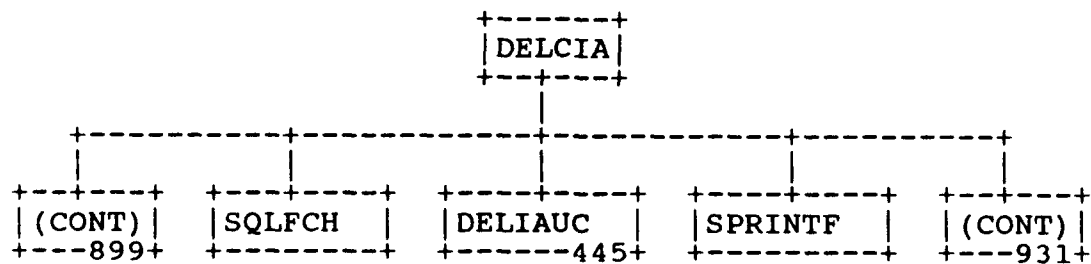
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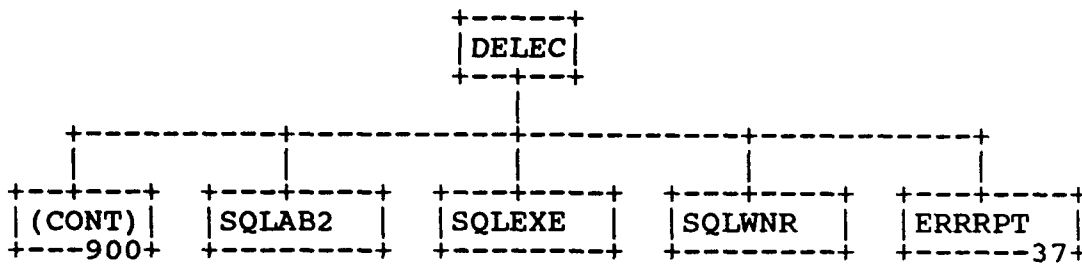
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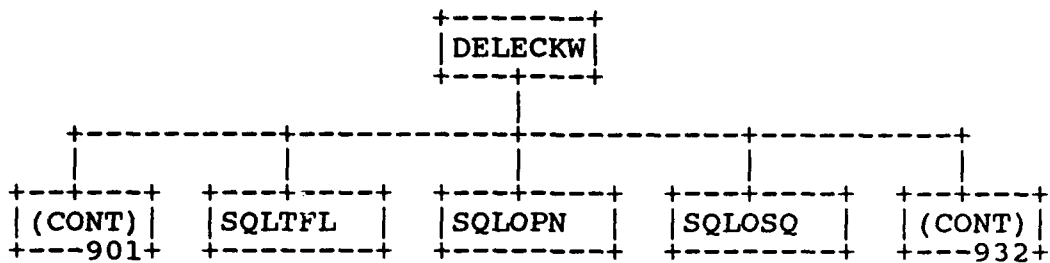
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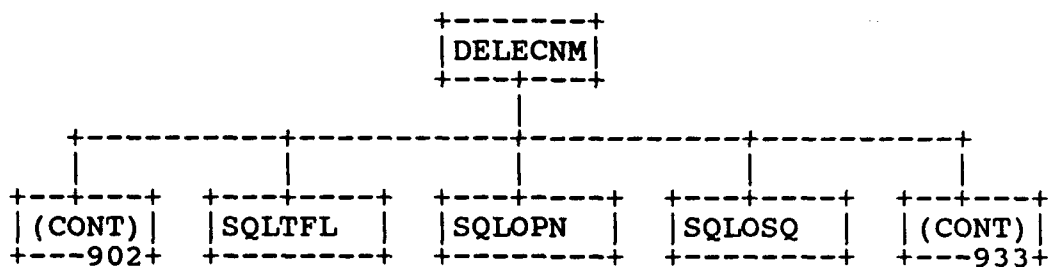
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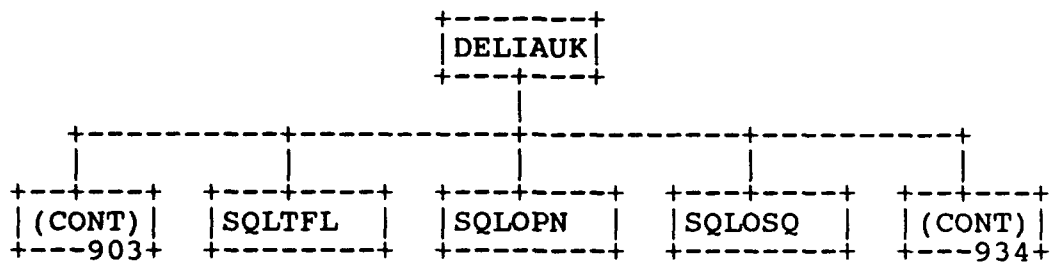
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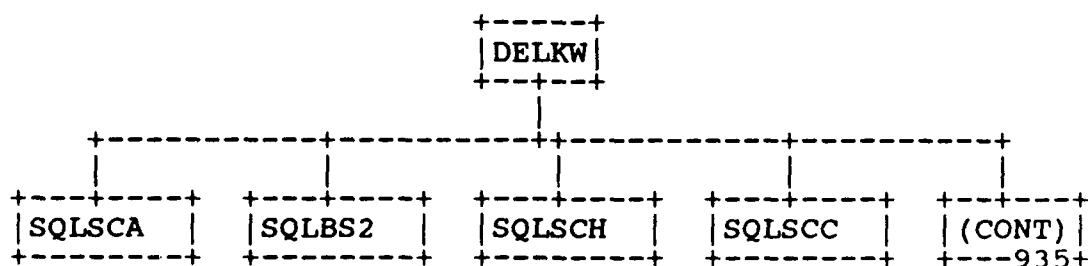
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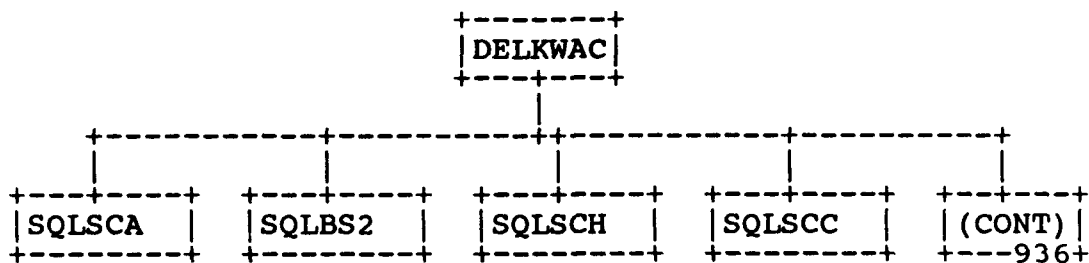
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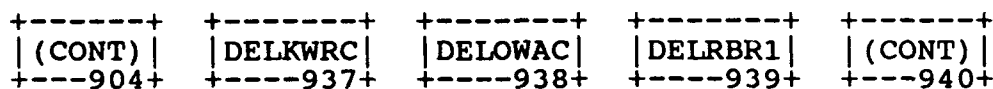
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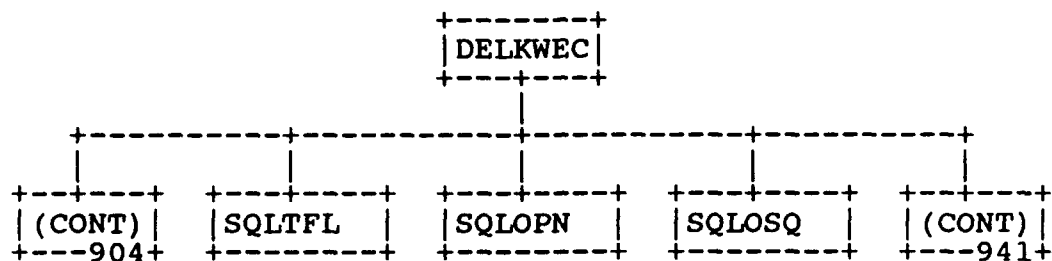
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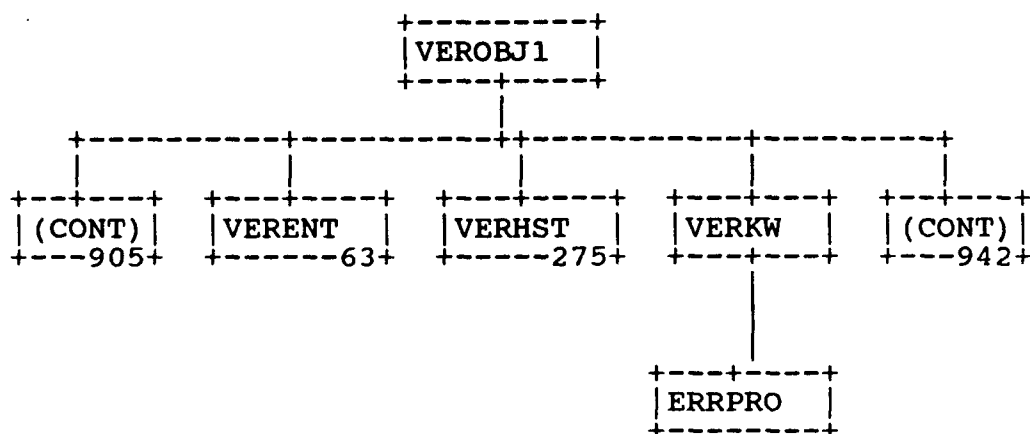
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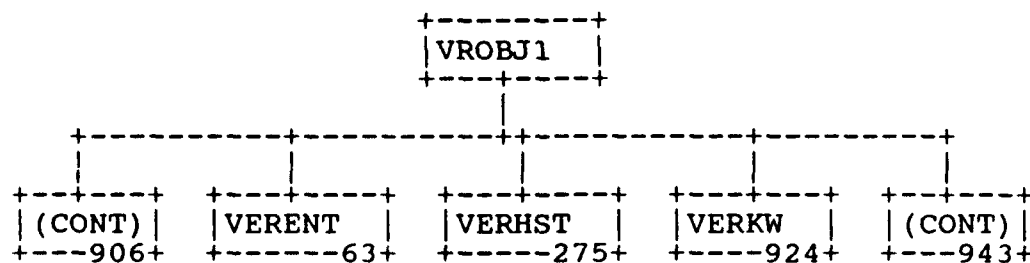
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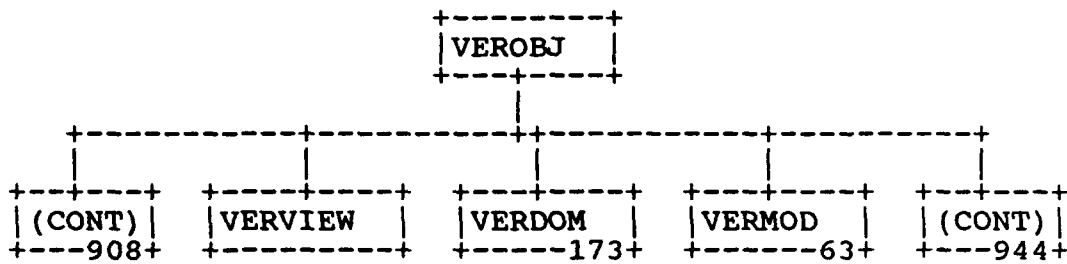
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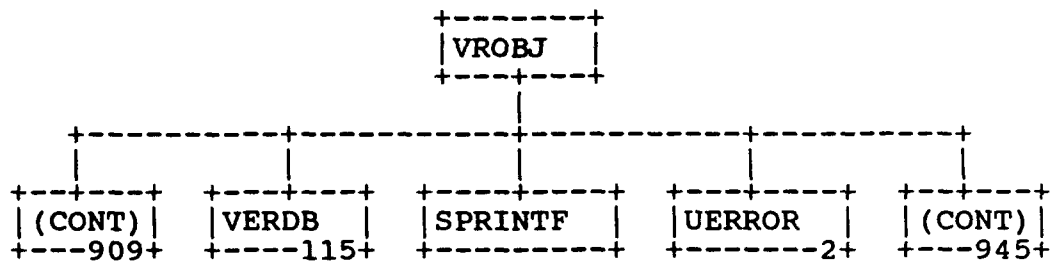
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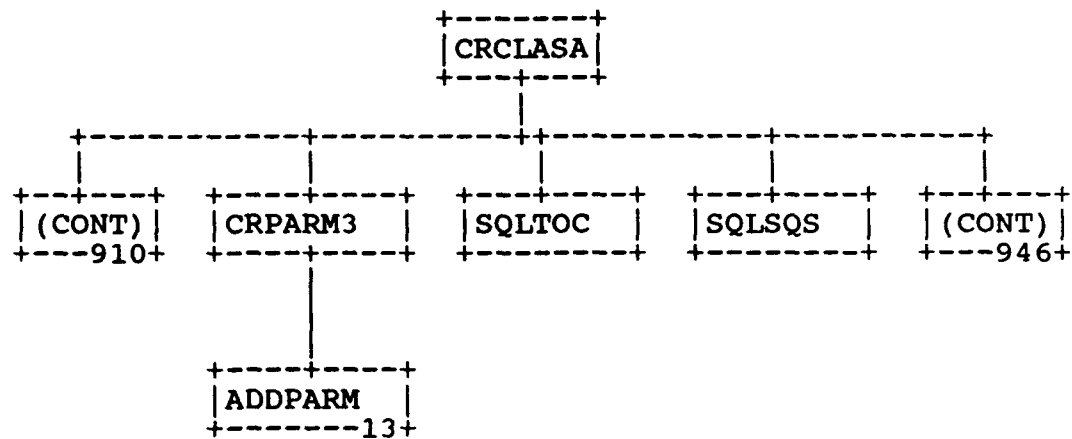
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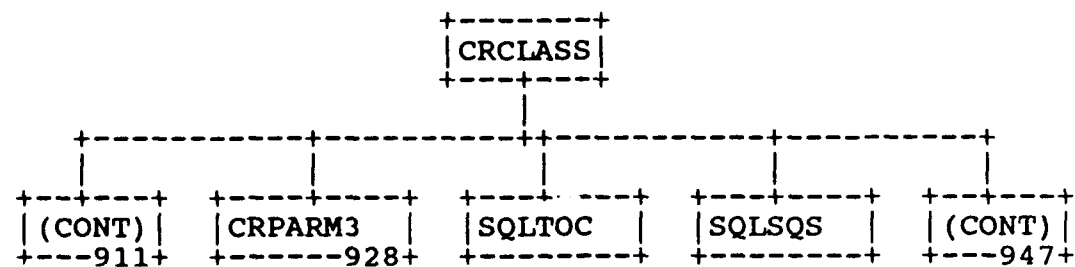
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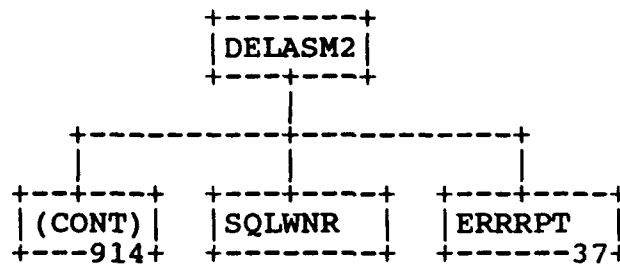
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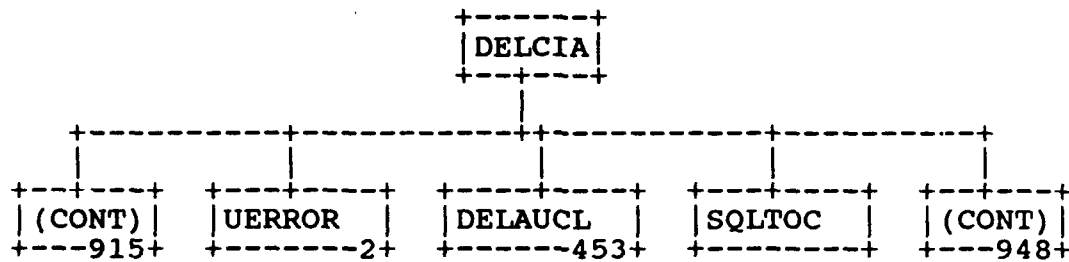
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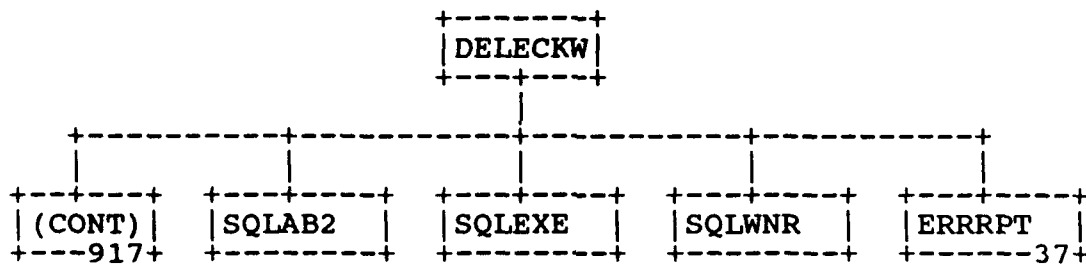
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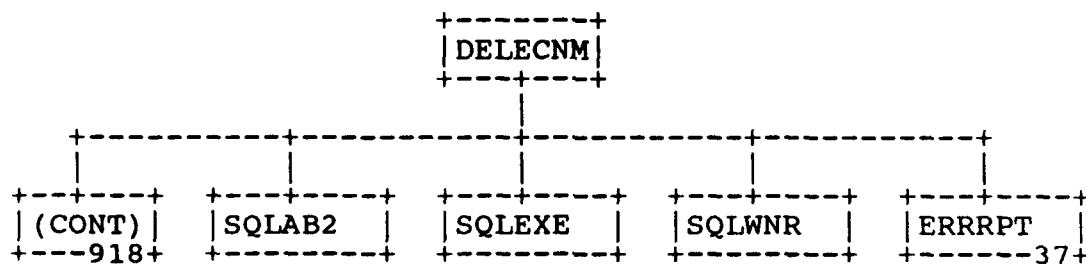
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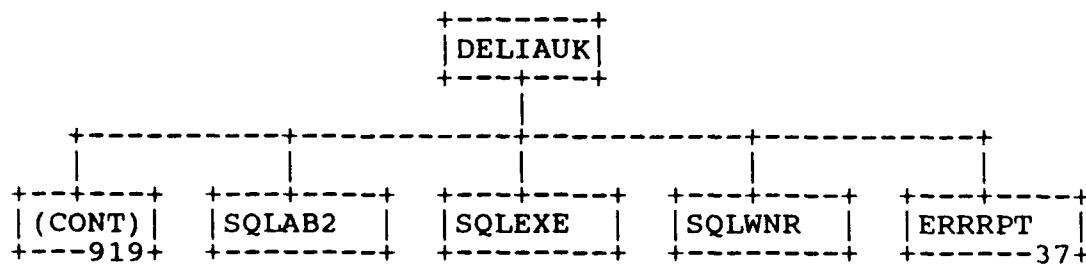
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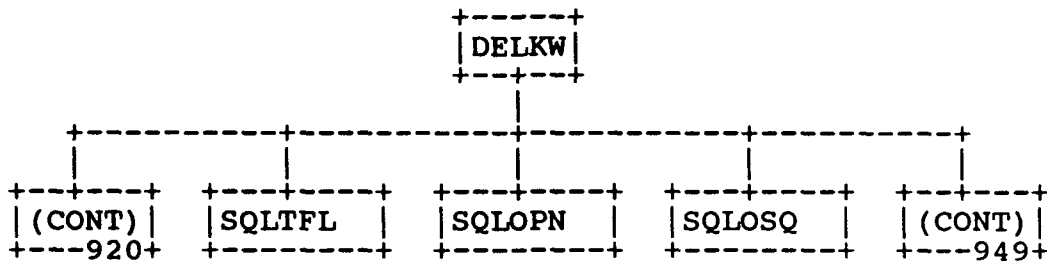
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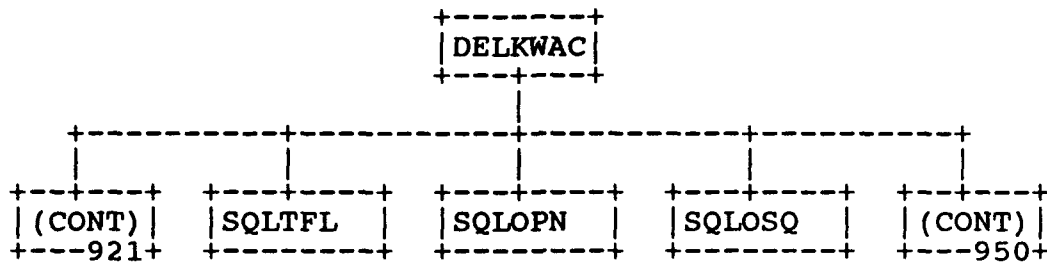
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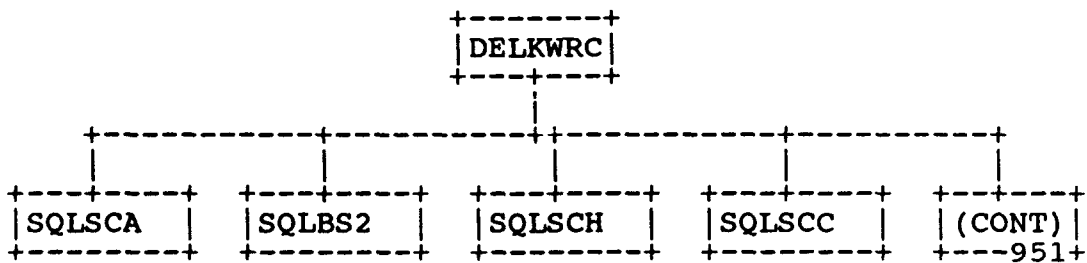
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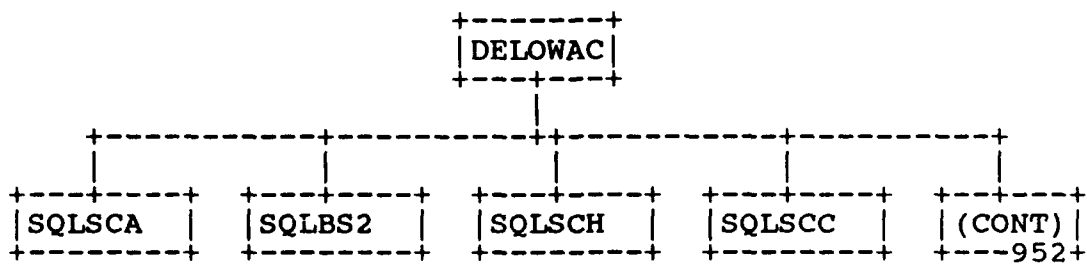
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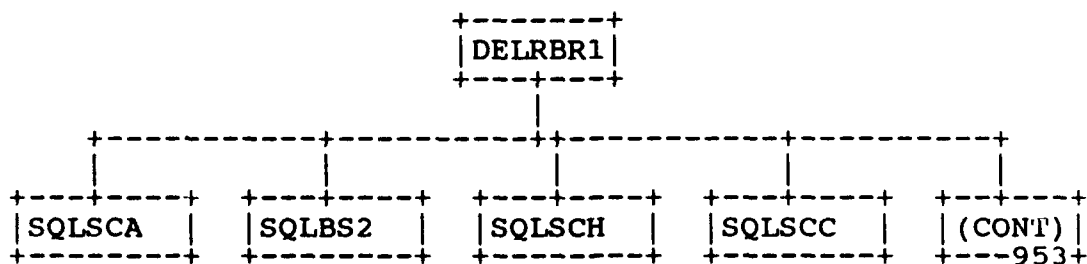
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938



939



940

(CONT)	DELRBR2	DELRCS	DELSDF1	(CONT)
-922	-954	-955	-956	-957

941

DELKWEC				
(CONT)	SQLAB2	SOLEXE	SQLWNR	ERRRPT
-923				-37

942

VEROBJ1			
(CONT)	VERVIEW	VERDOM	VERMOD
-924		-173	-63

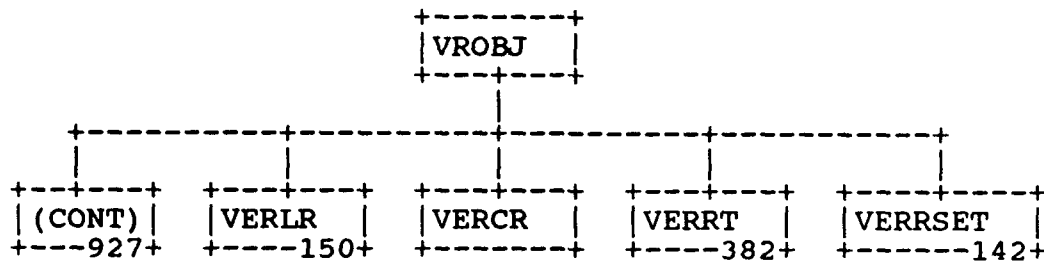
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VROBJ1			
(CONT)	VERVIEW	VERDOM	VERMOD
-925		-173	-63

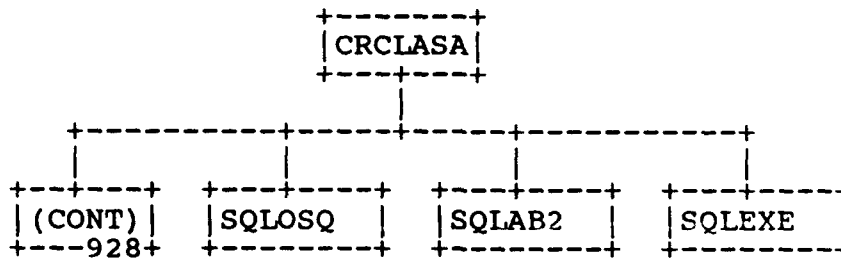
944

VEROBJ				
(CONT)	VERDB	SPRINTF	UERROR	(CONT)
-926	-115		-2	-958

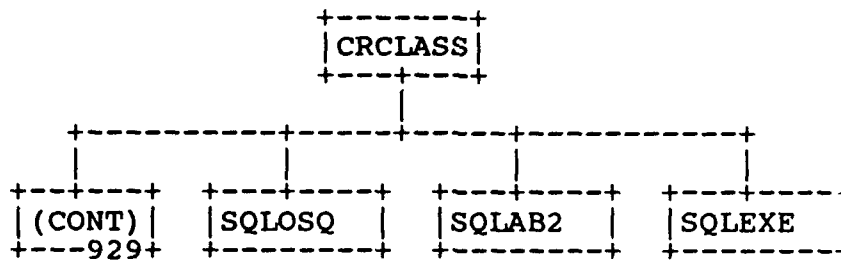
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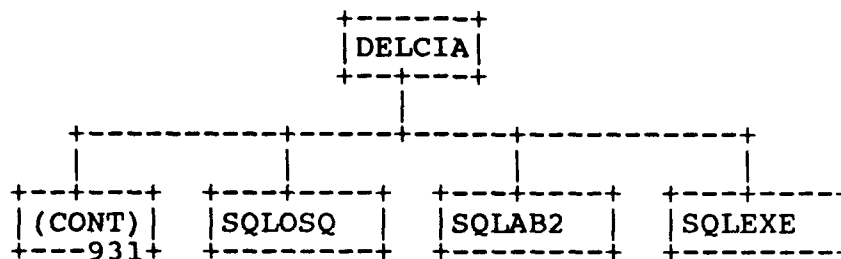
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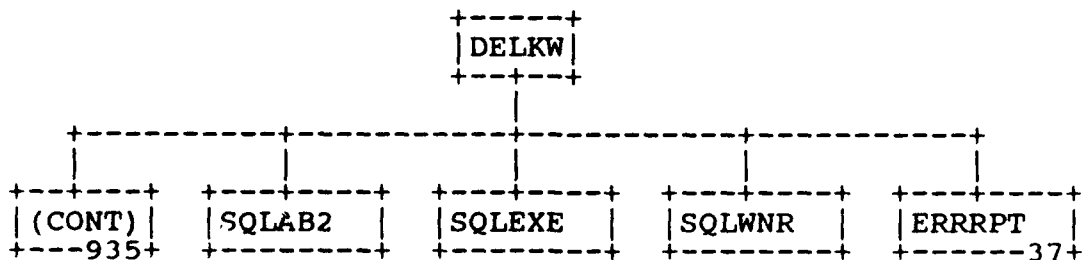
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948

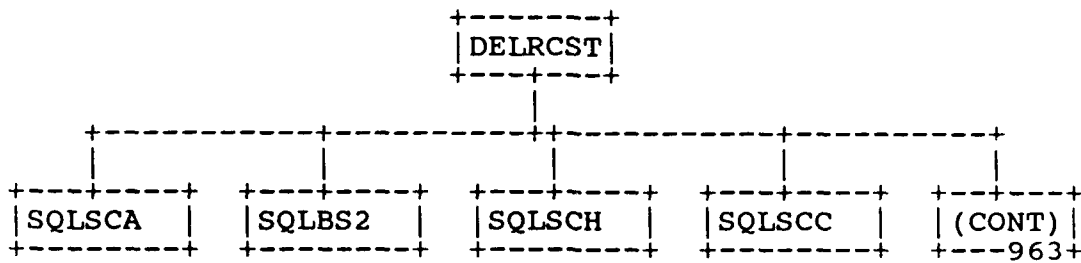


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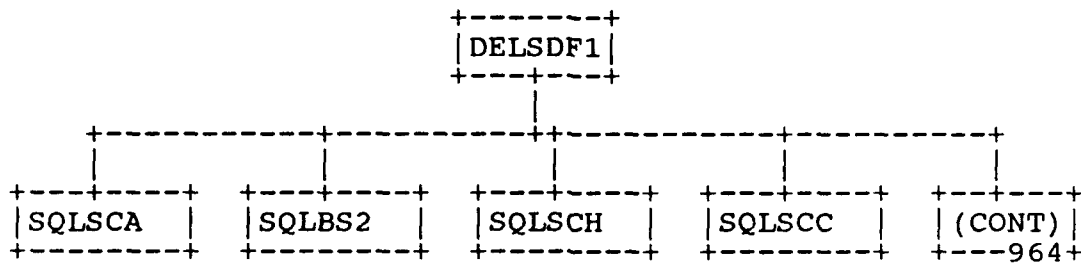




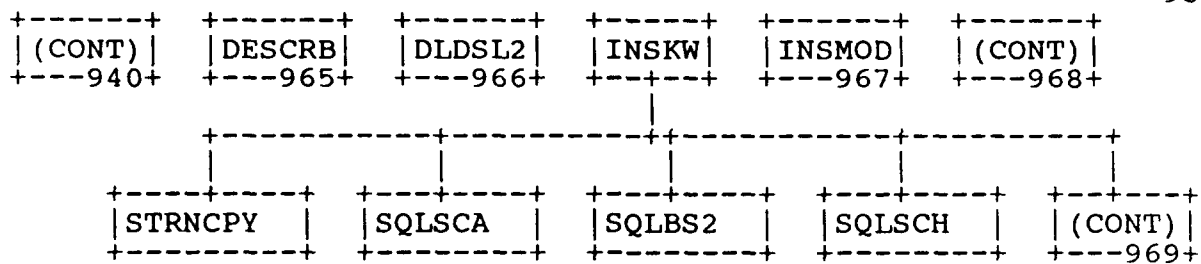
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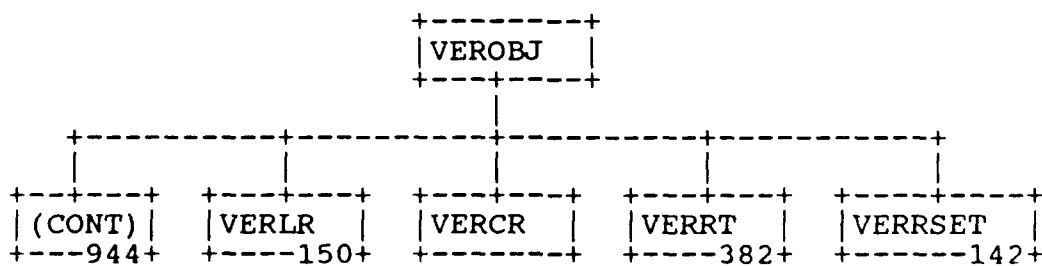
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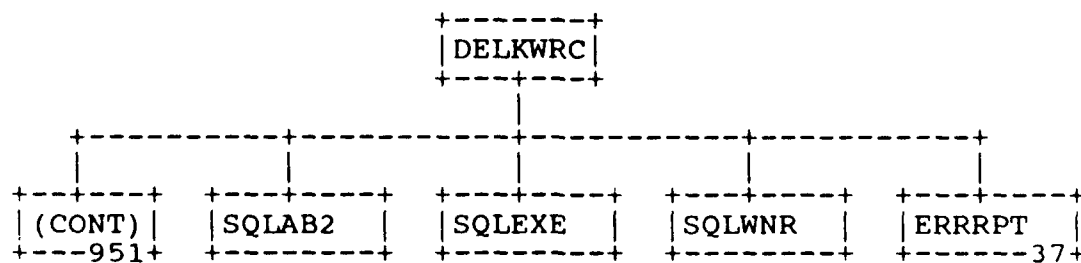
957



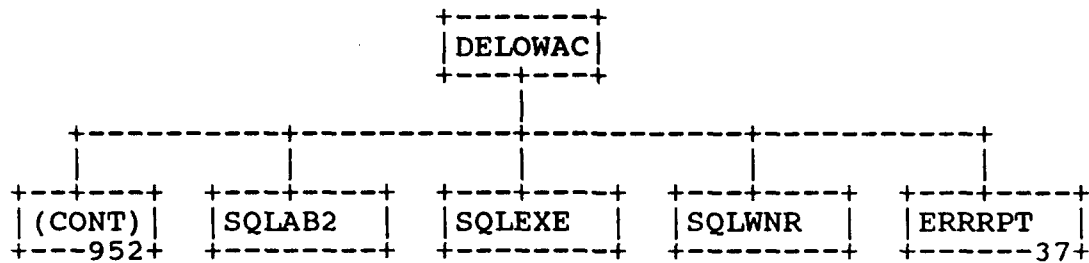
958



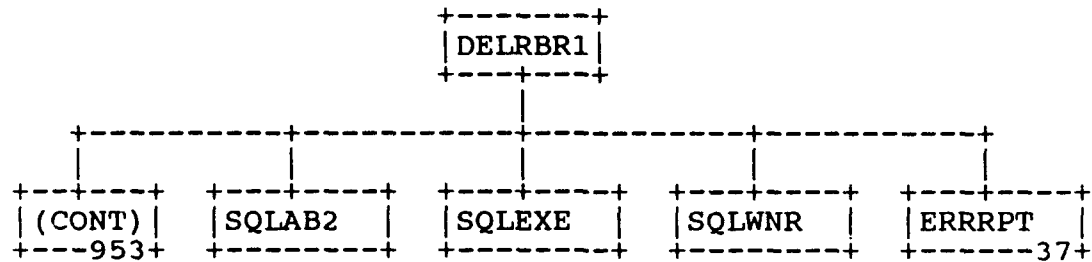
959



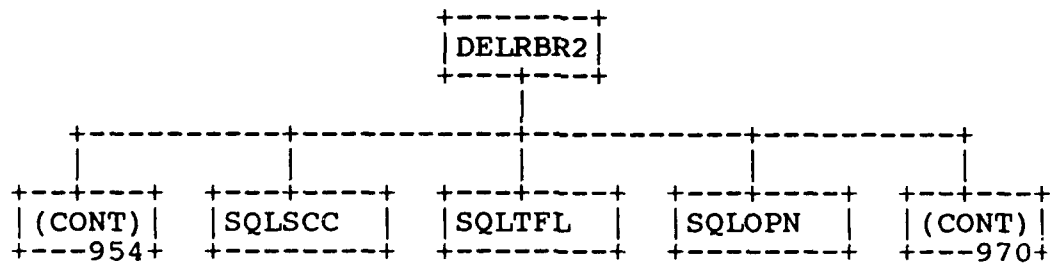
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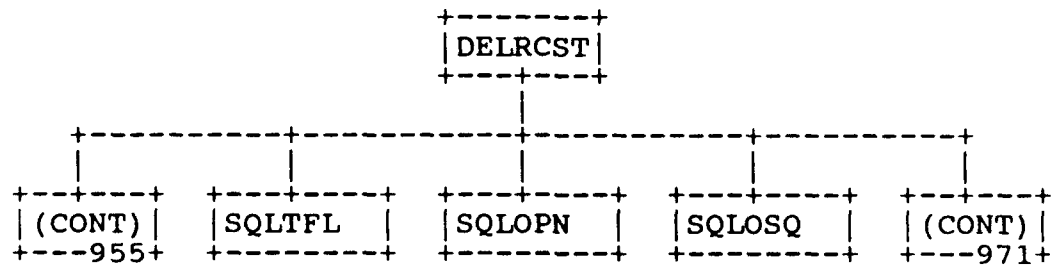
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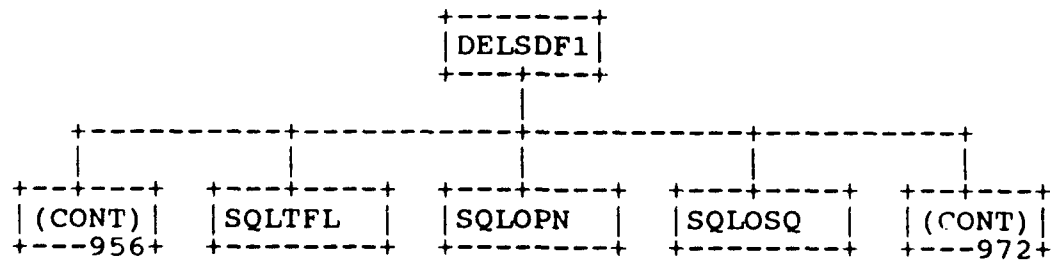
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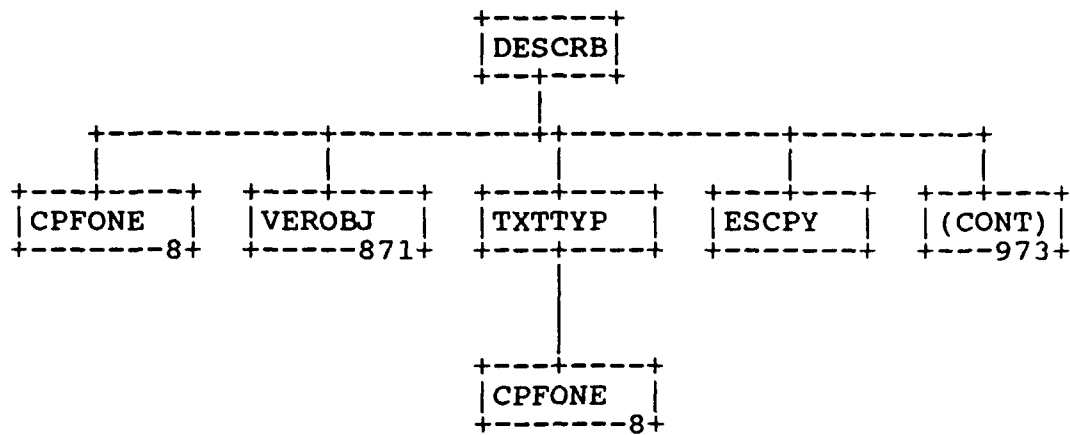
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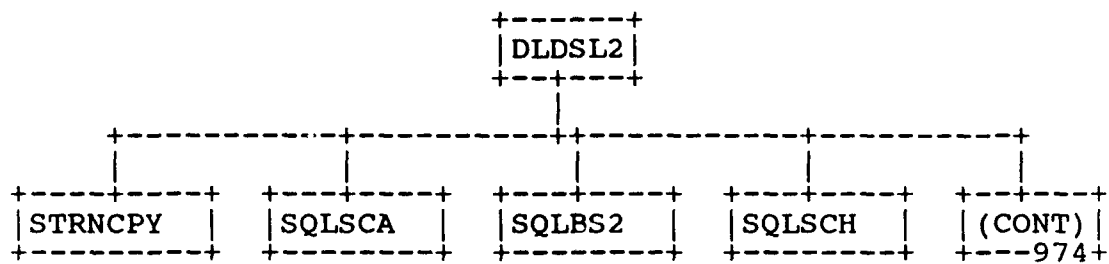
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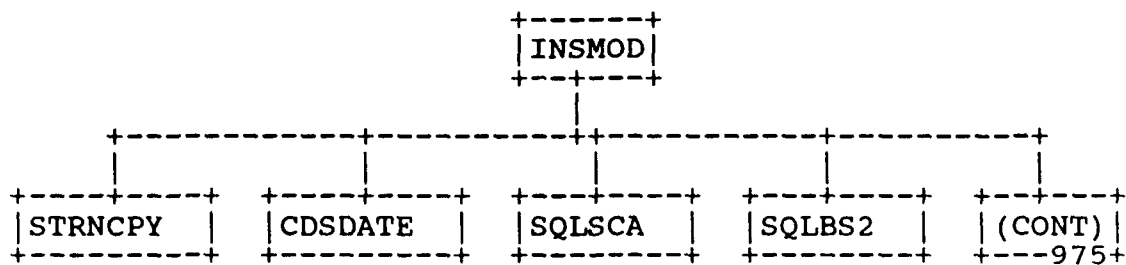
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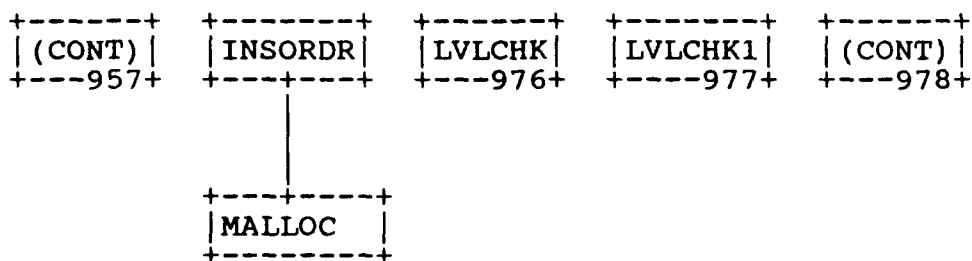
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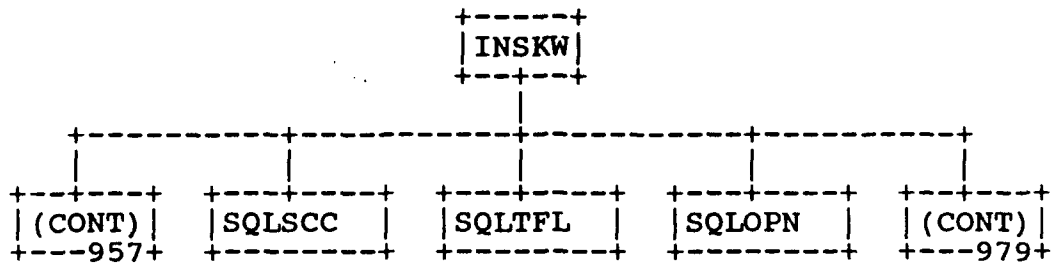
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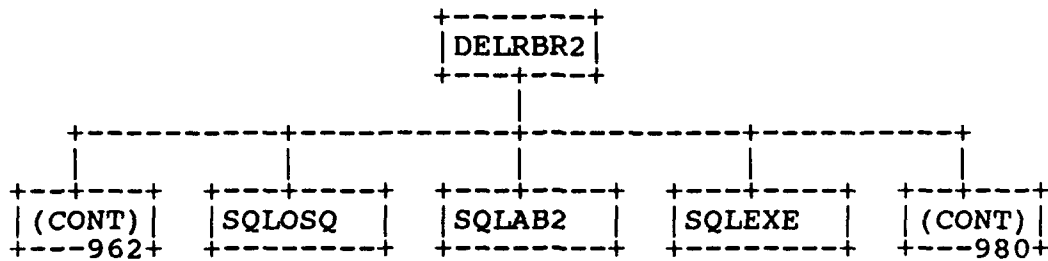
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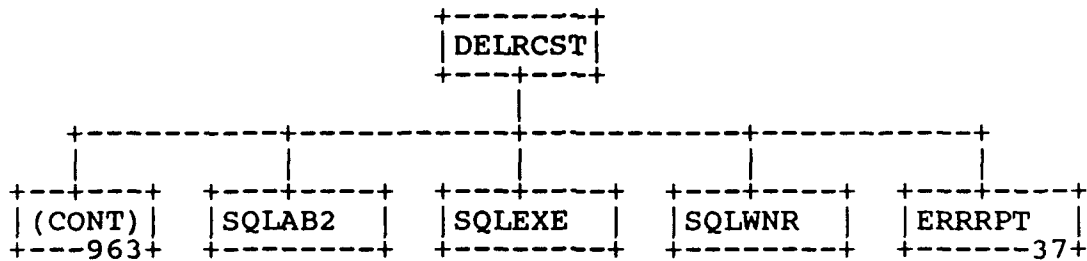
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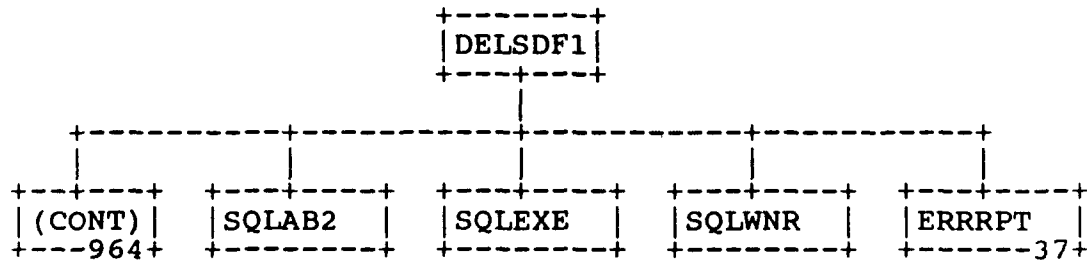
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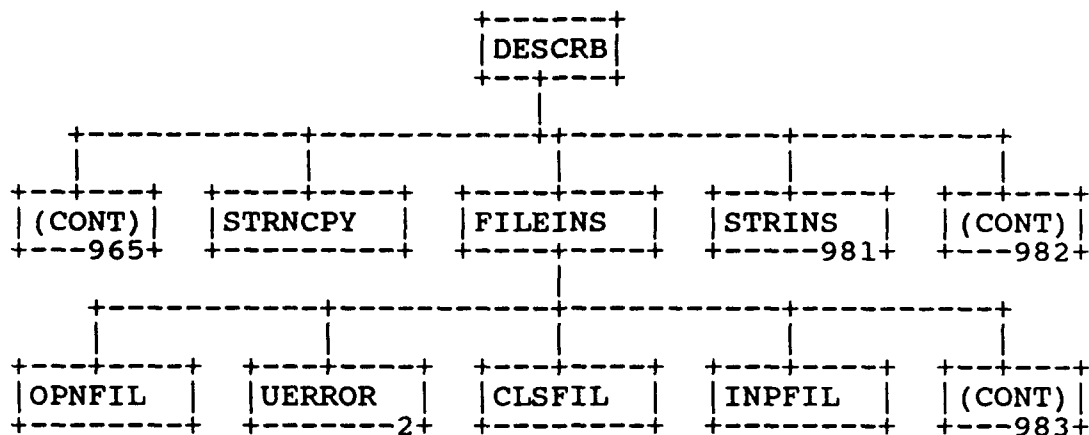
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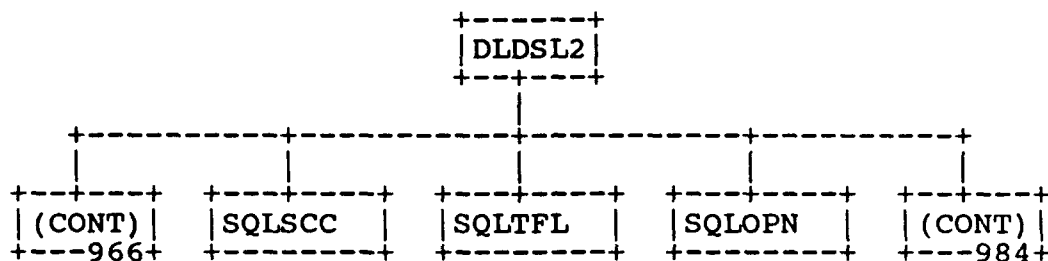
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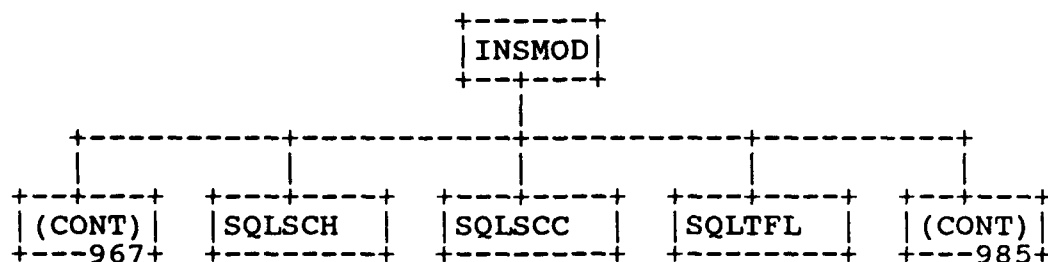
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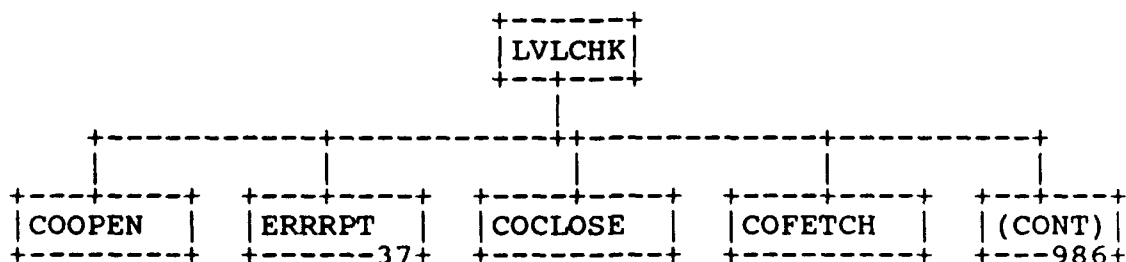
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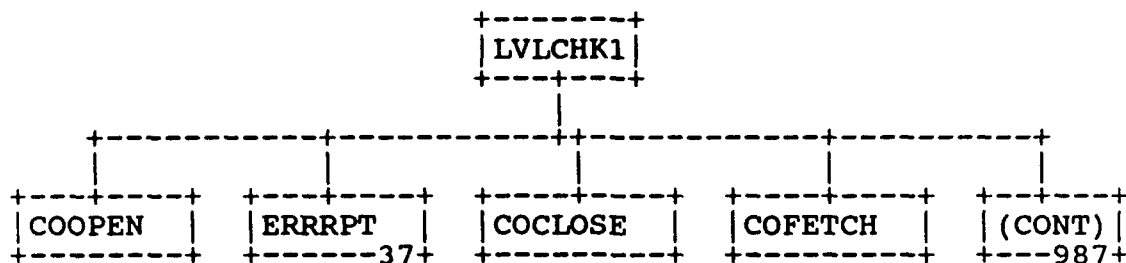
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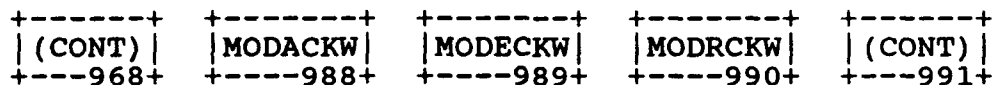
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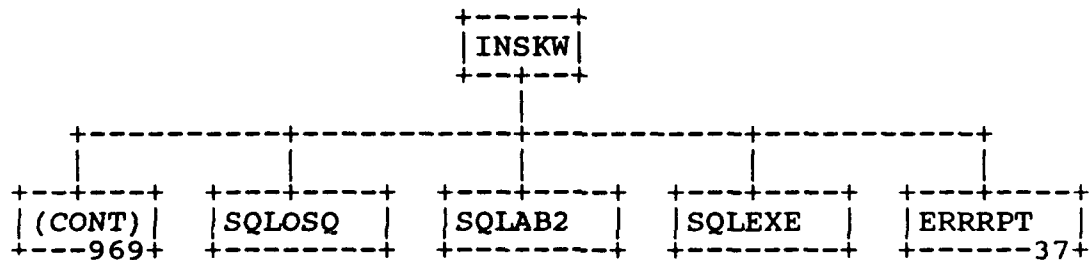
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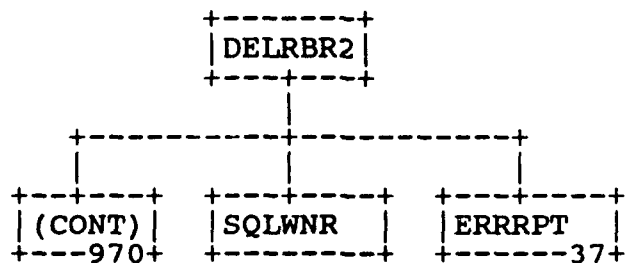
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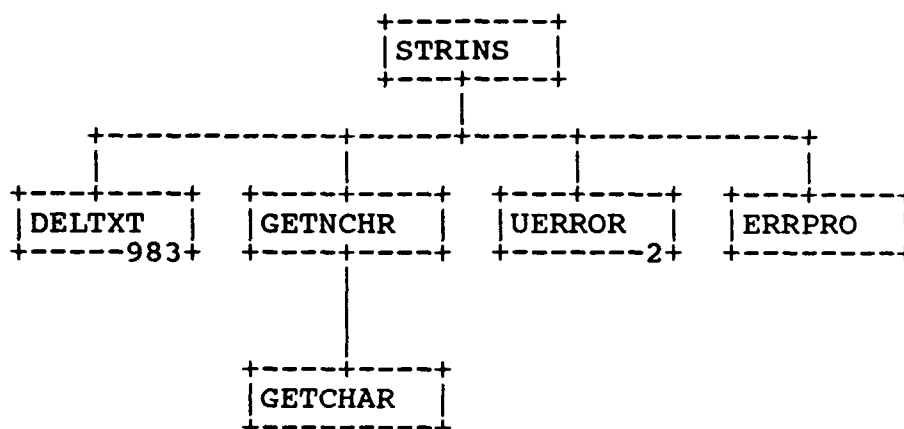
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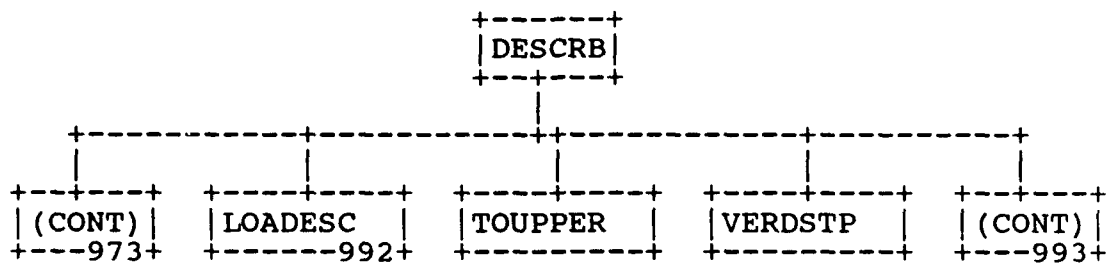
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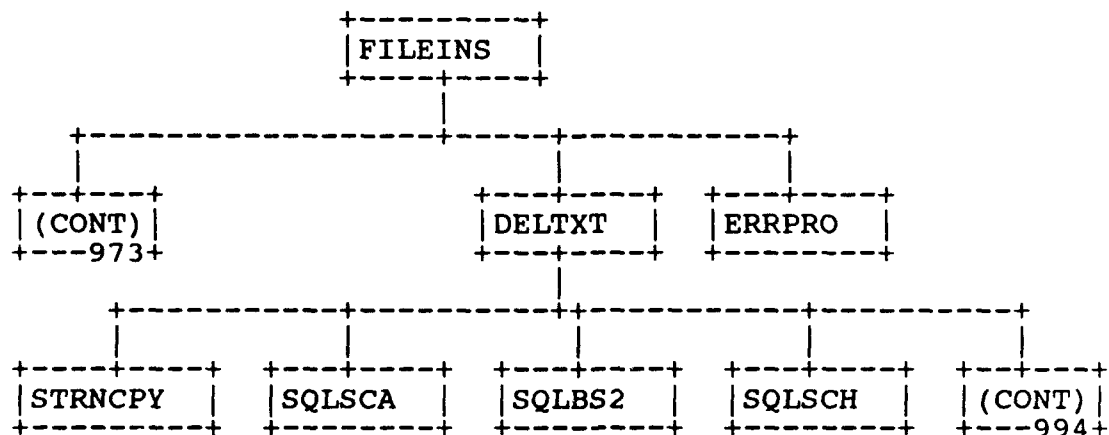
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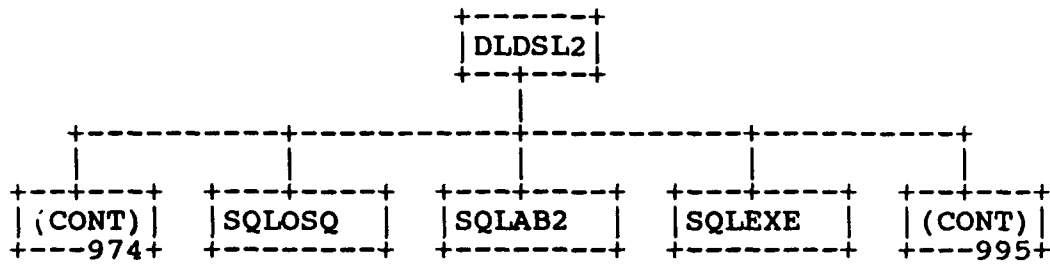
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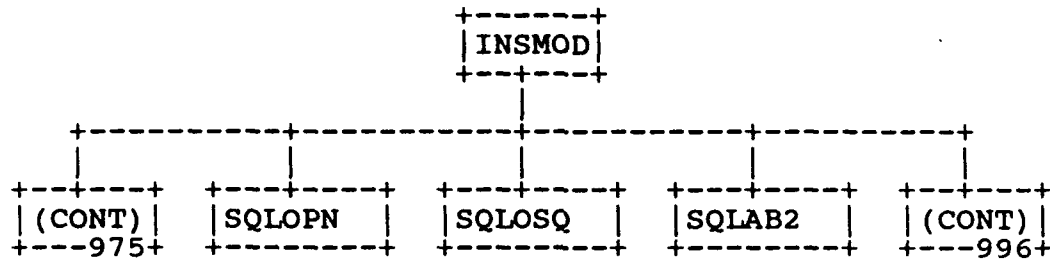
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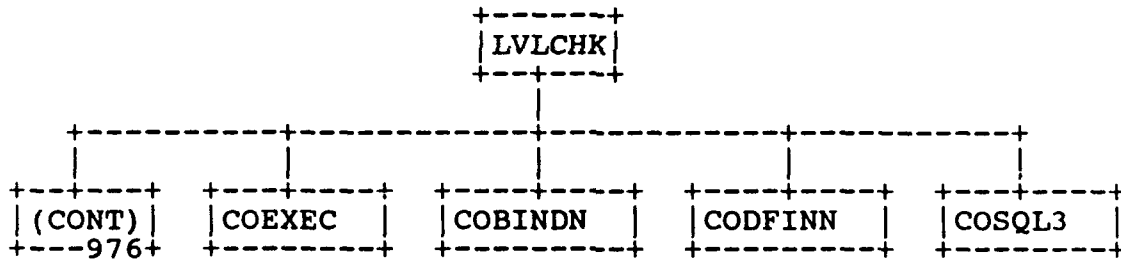
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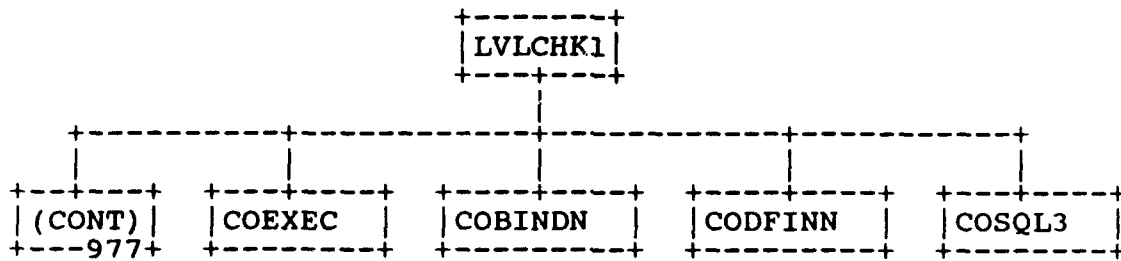
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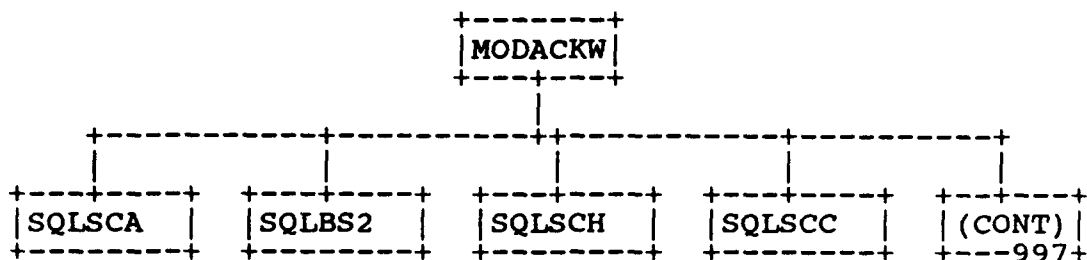
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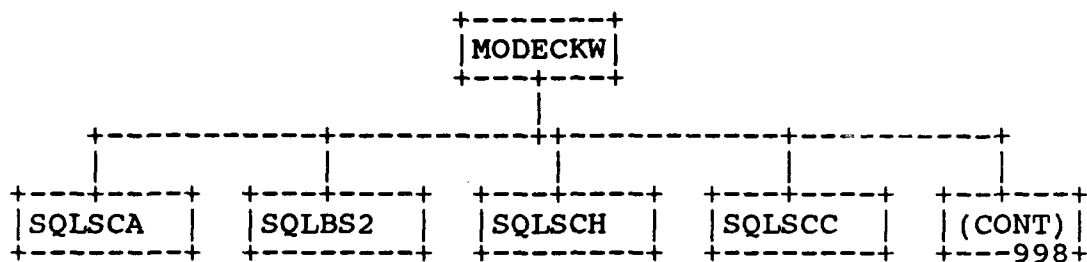
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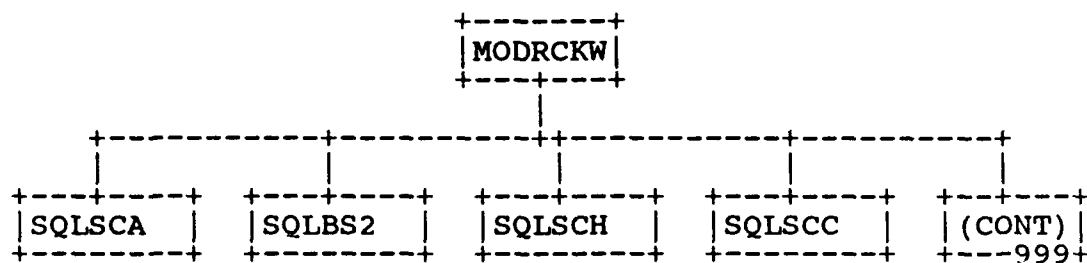
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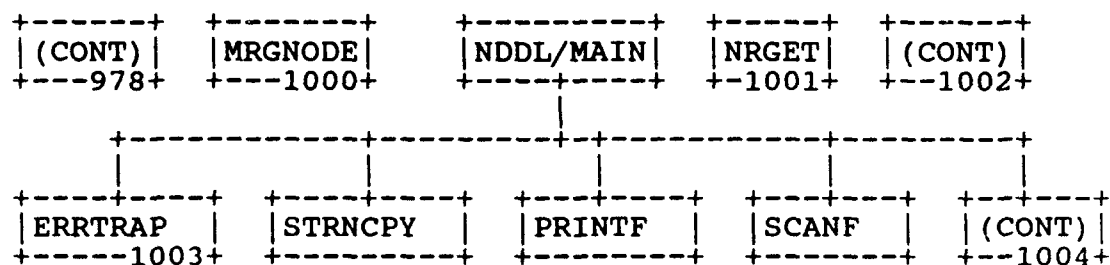
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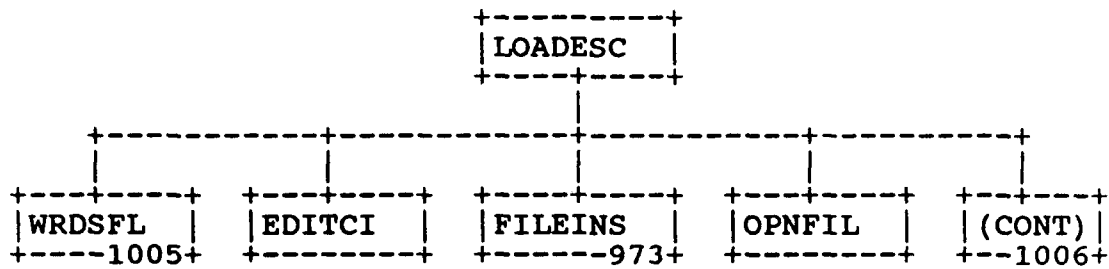
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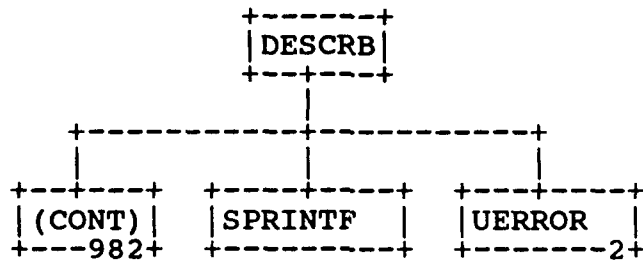
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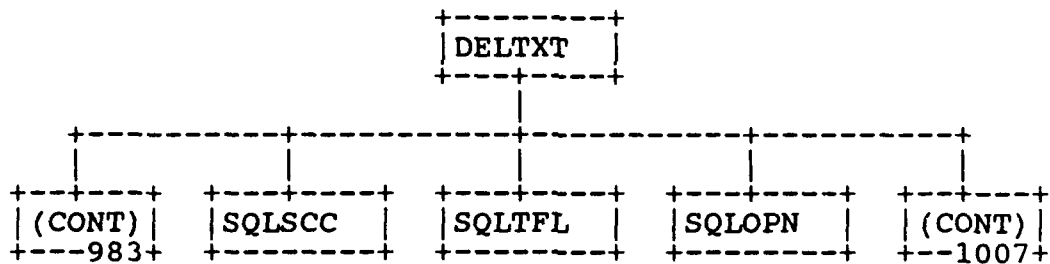
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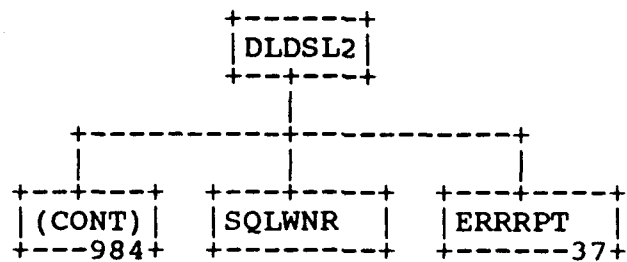
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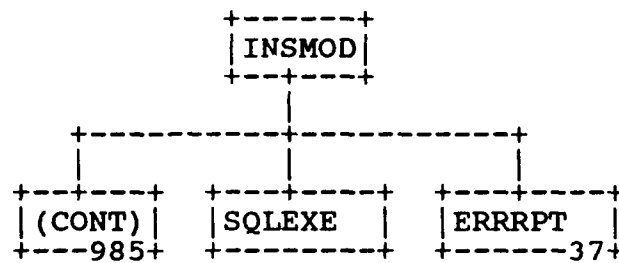
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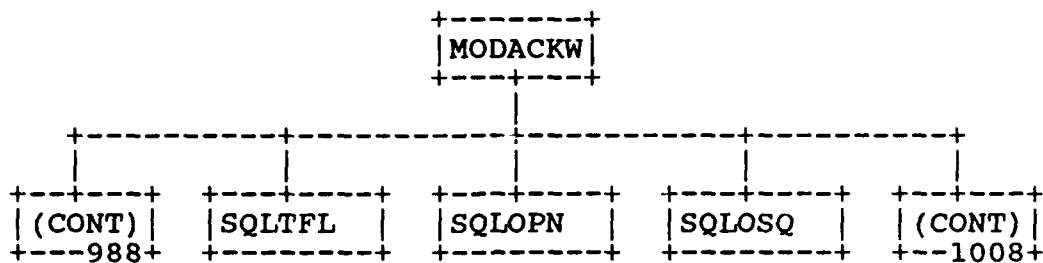
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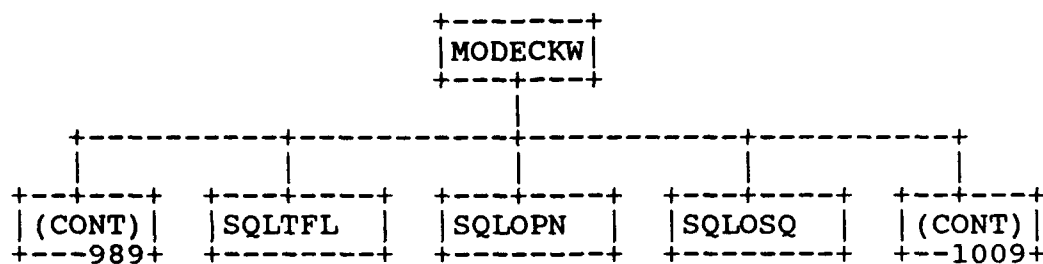
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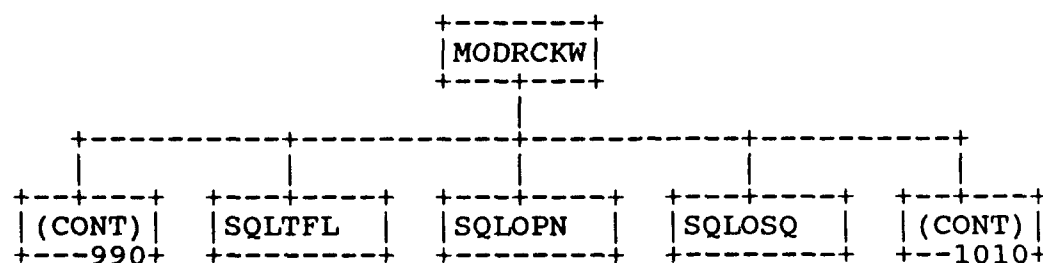
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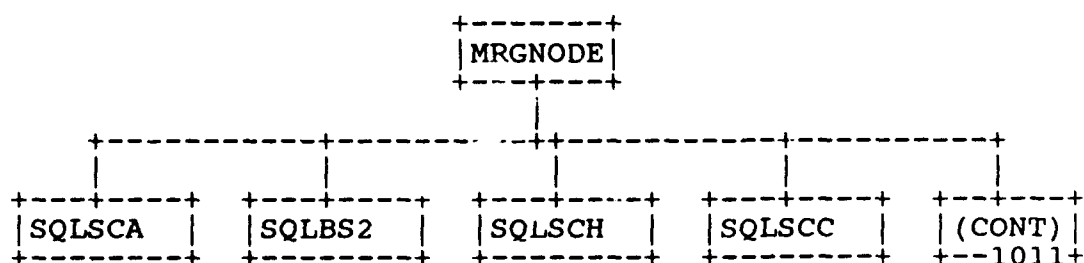
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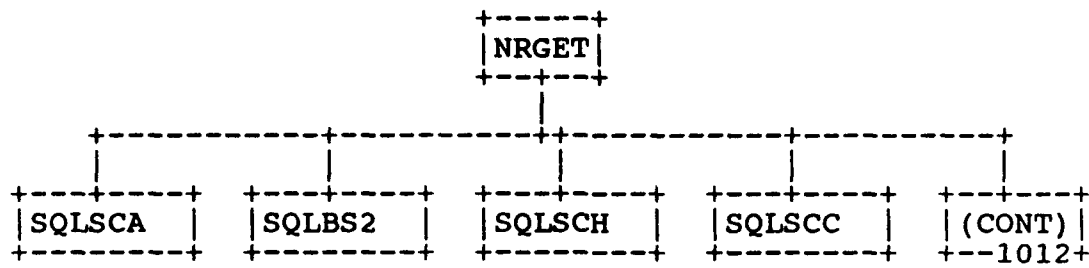
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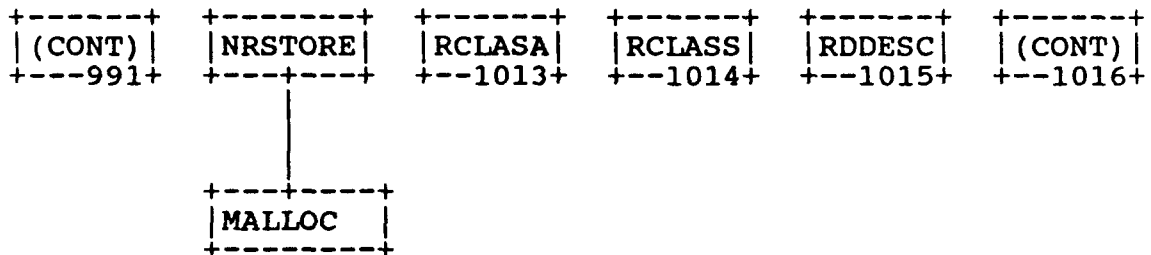
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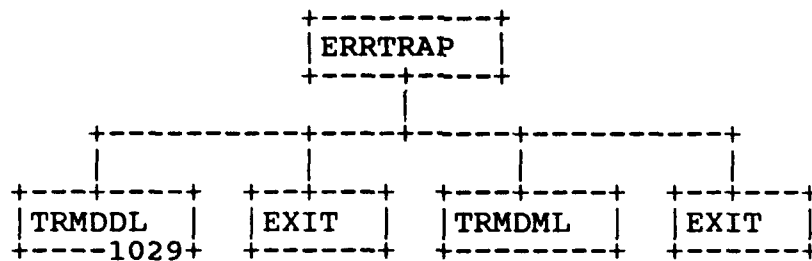
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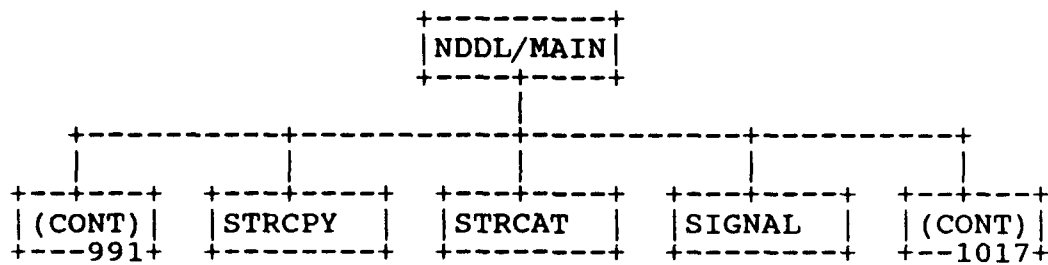
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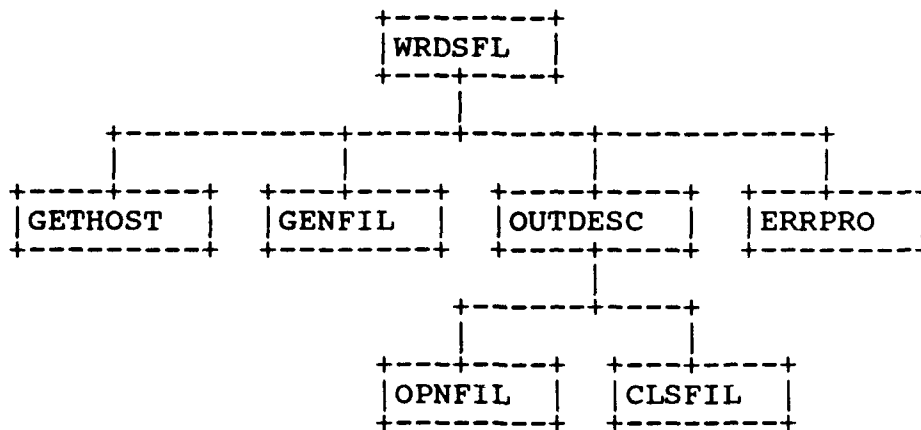
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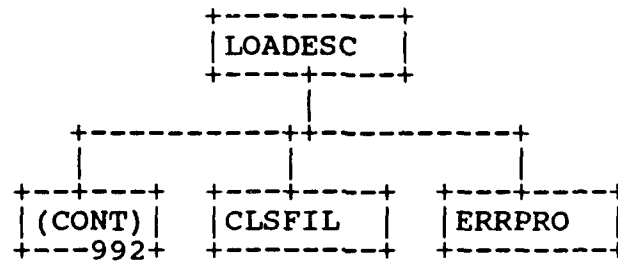
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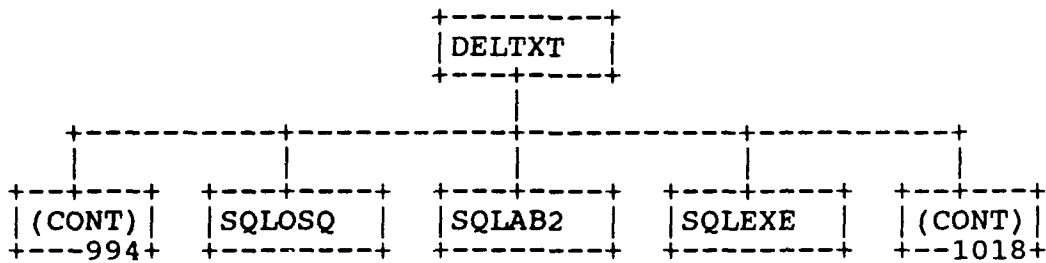
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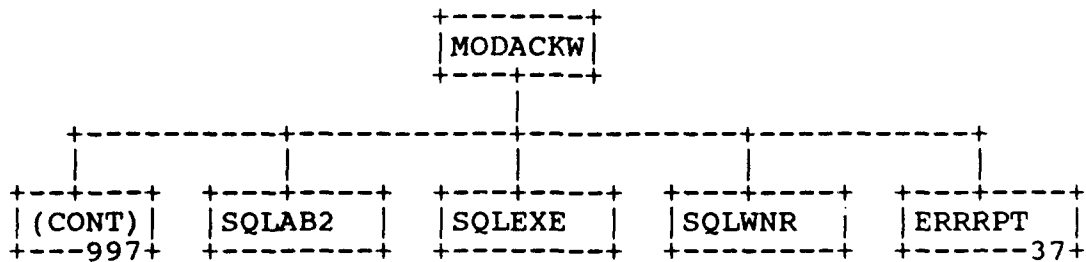
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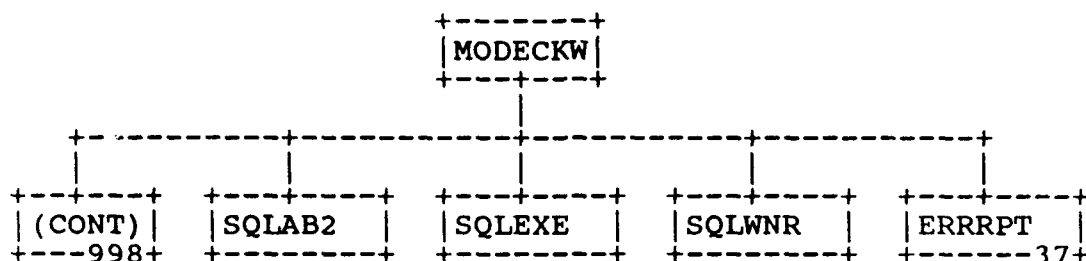
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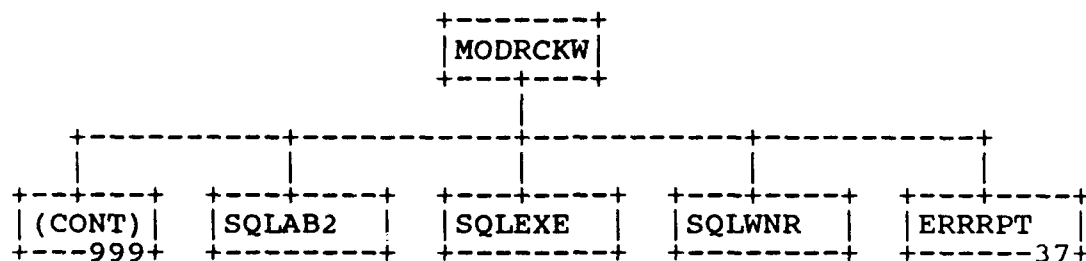
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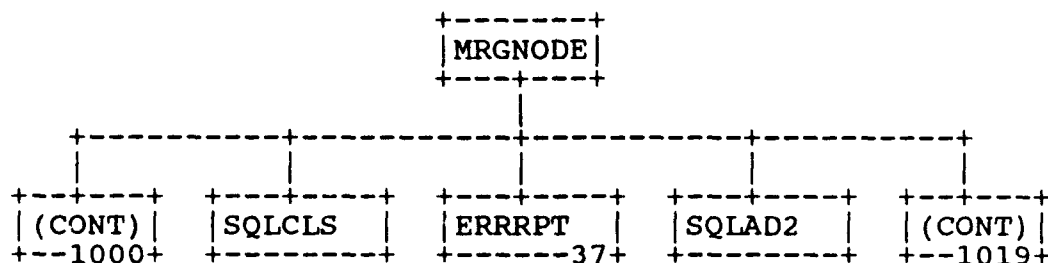
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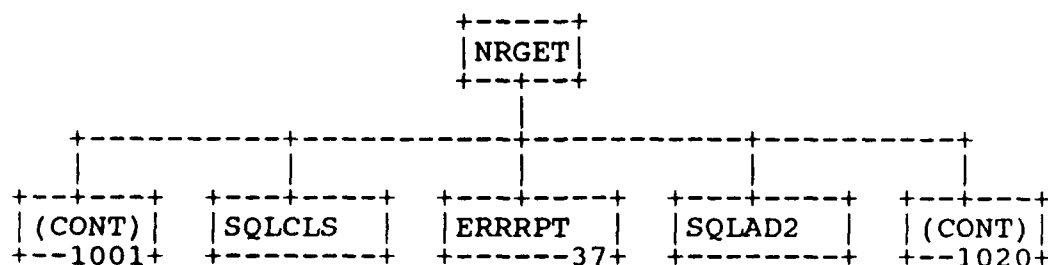
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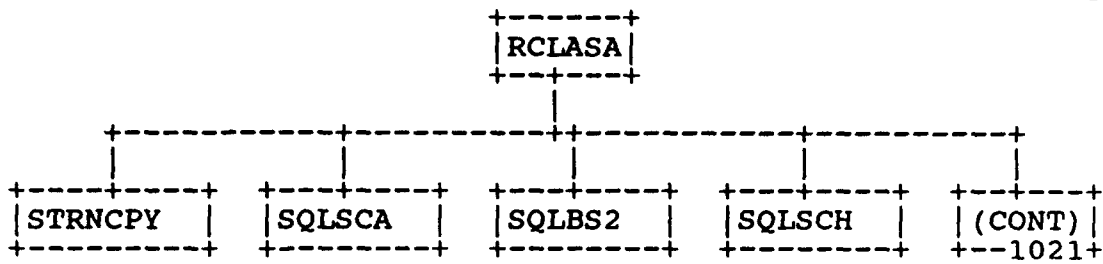
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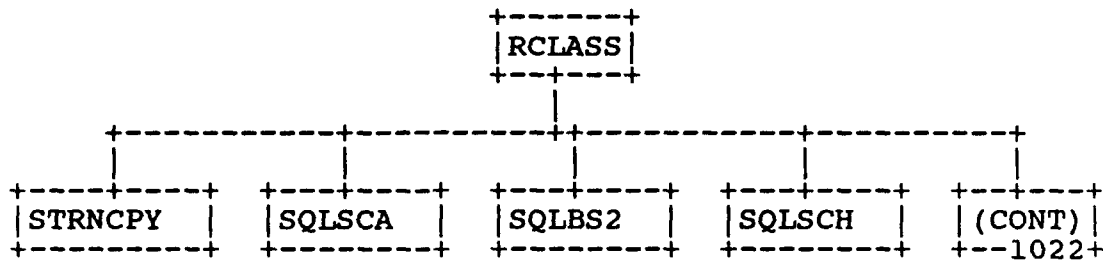
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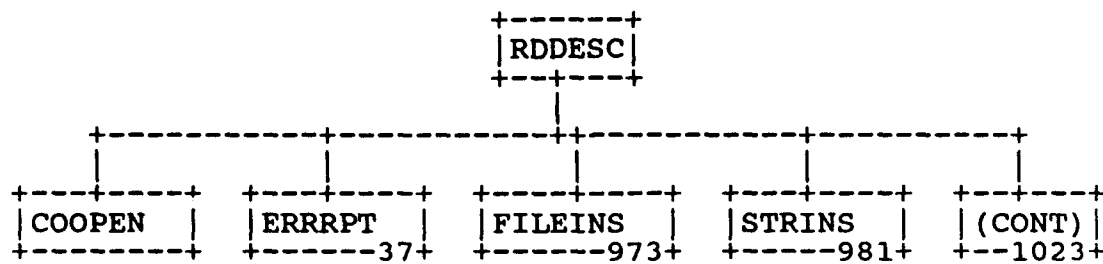
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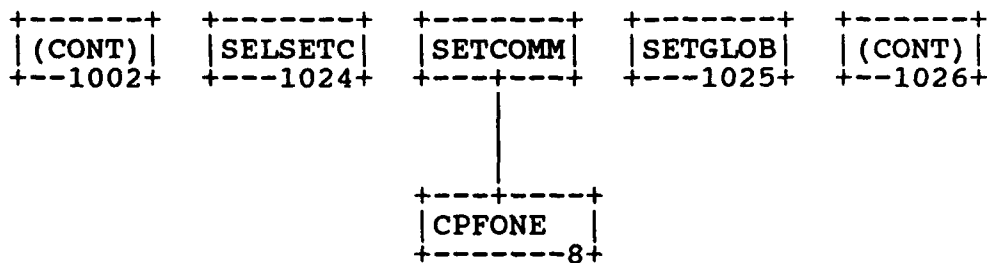
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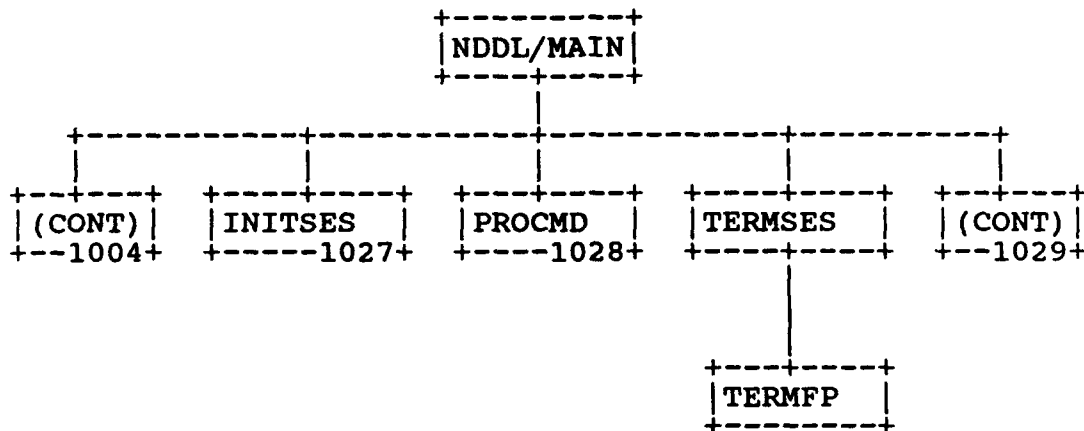
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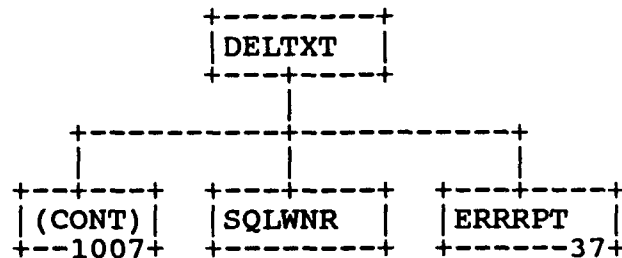
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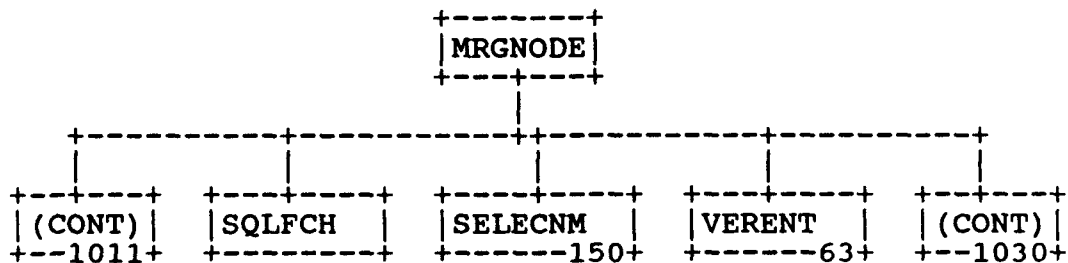
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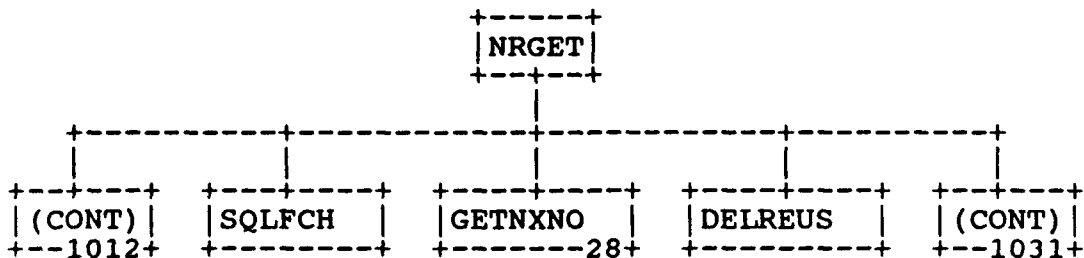
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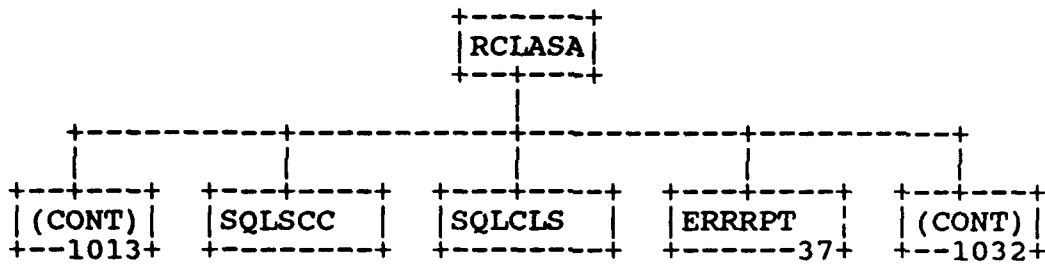
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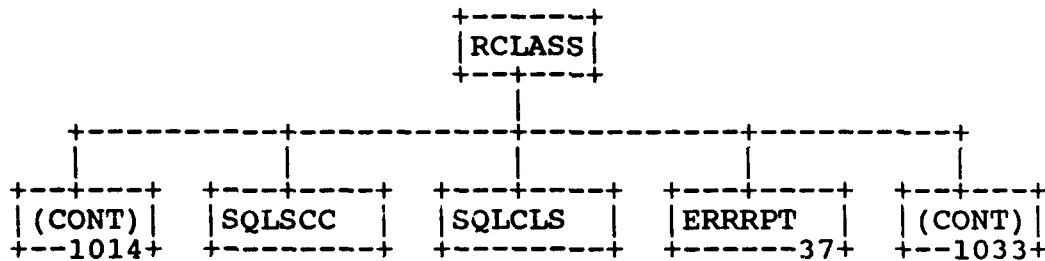
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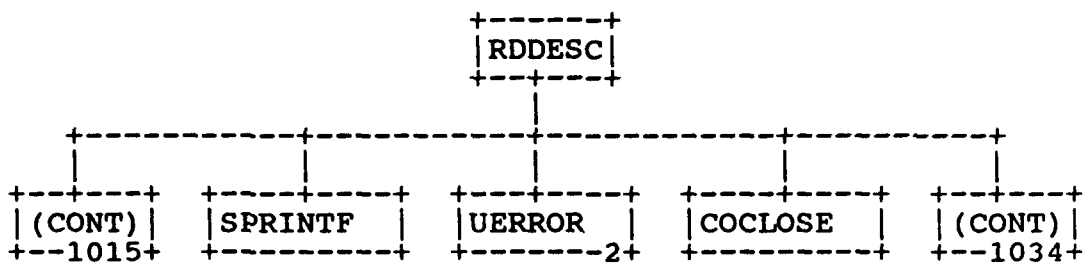
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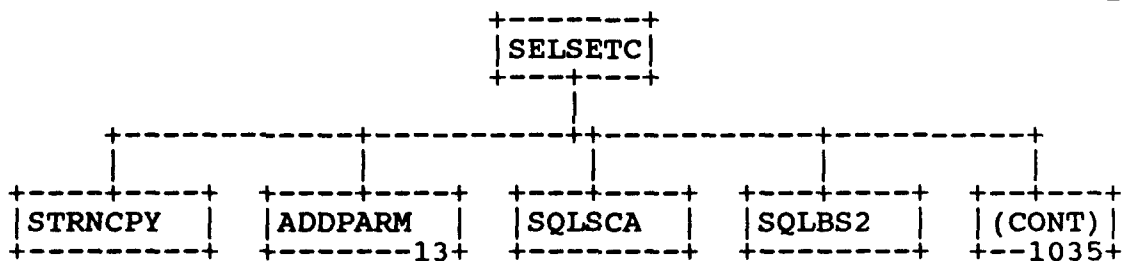
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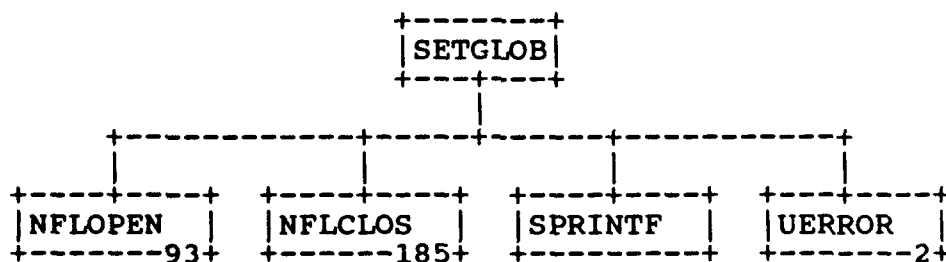
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1024



1025



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+-----+ +-----+ +-----+ +-----+ +-----+
| (CONT) | | UINDDL/M | | UPDACNM | | UPDAPP | | (CONT) |
+---1016+ +---1036+ +---1037+ +---1038+ +---1039+

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1026

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+-----+
| INITSES |
+-----+
|
+-----+ +-----+ +-----+ +-----+ +-----+
| HOOK_FORM | | STRNCPY | | VERTYP | | STRNCMP | | (CONT) |
+---1040+ +---1041+ +---1042+ +---1043+ +---1044+

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1027

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+-----+
| PROCMD |
+-----+
|
+-----+ +-----+ +-----+ +-----+
| RESETFN | | COMMITMN | | COMMITFN | | (CONT) |
+---1045+ +---1046+ +---1047+ +---1048+

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1028

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+-----+
| NDDL/MAIN |
+-----+
|
+-----+ +-----+ +-----+
| (CONT) | | TRMDDL | | EXIT |
+---1017+ +---1018+ +---1019+
|
+-----+ +-----+
| CDS01 | | ERRPRO |
+---1020+ +---1021+

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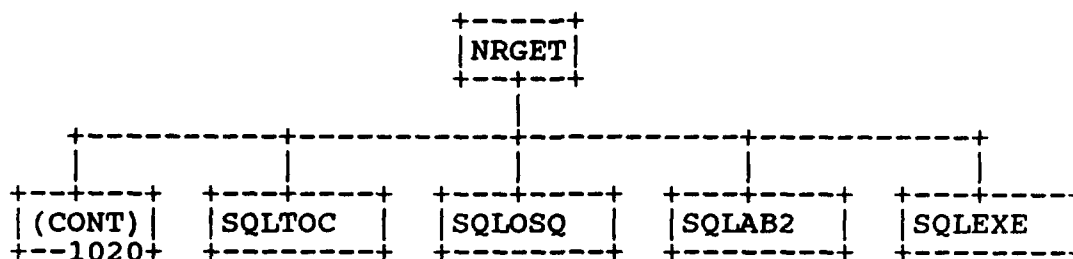
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+-----+
| MRGNODE |
+-----+
|
+-----+ +-----+ +-----+ +-----+ +-----+
| (CONT) | | GENENT1 | | GENALTE | | SPRINTT | | (CONT) |
+---1019+ +---149+ +---182+ +---183+ +---1043+

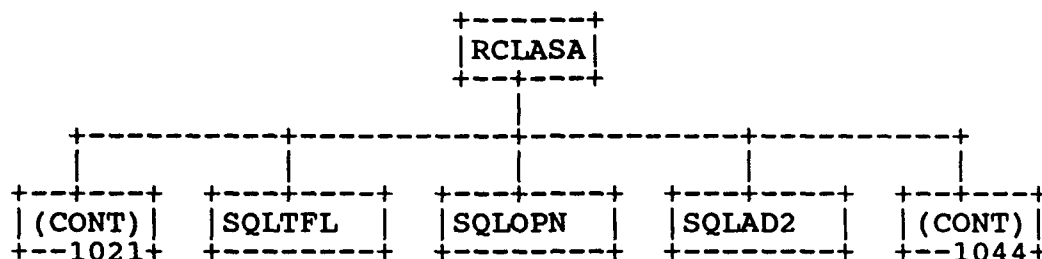
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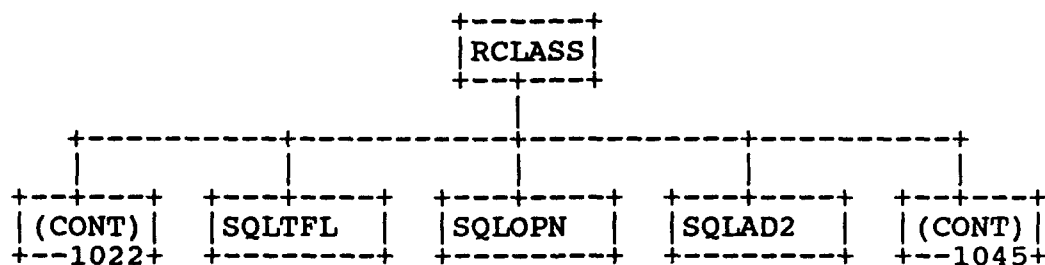
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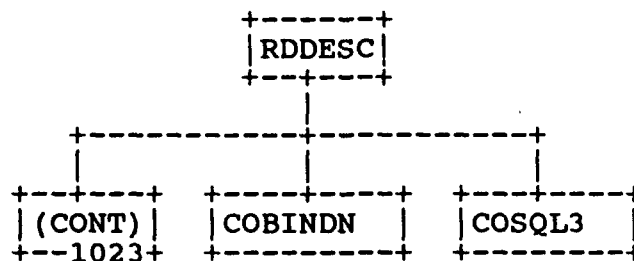
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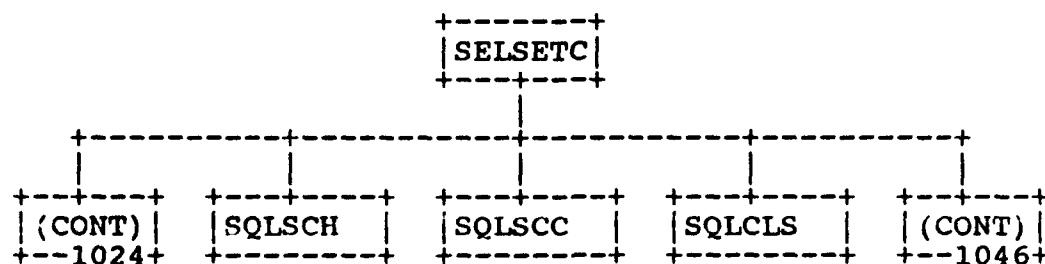
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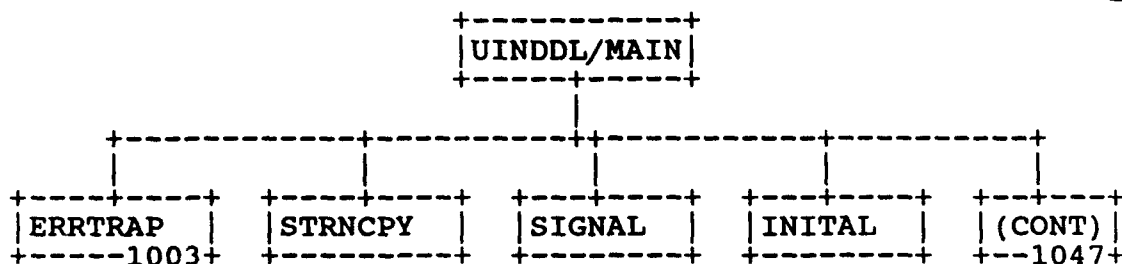
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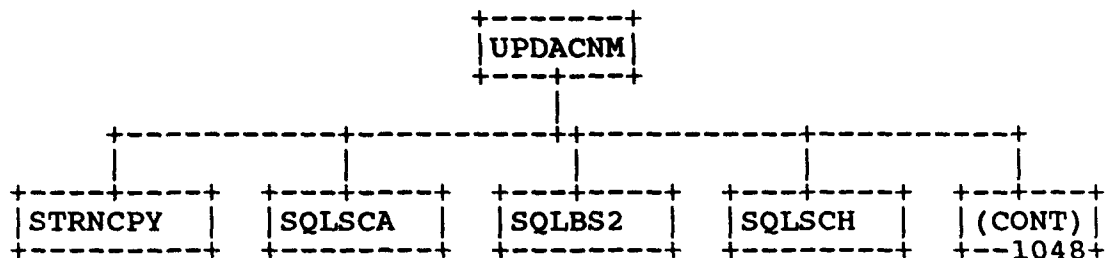
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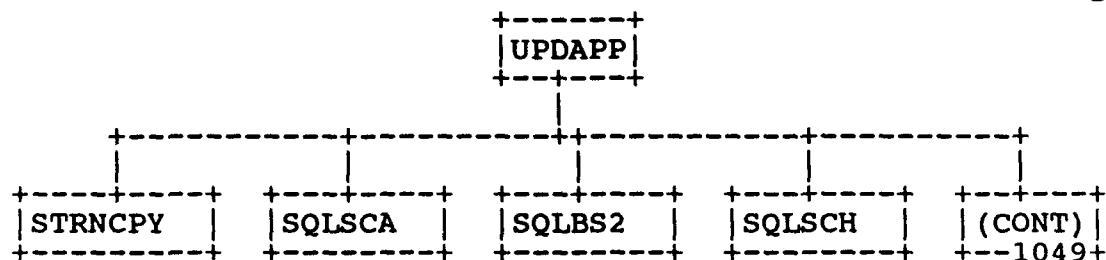
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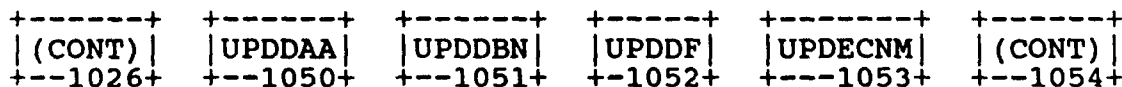
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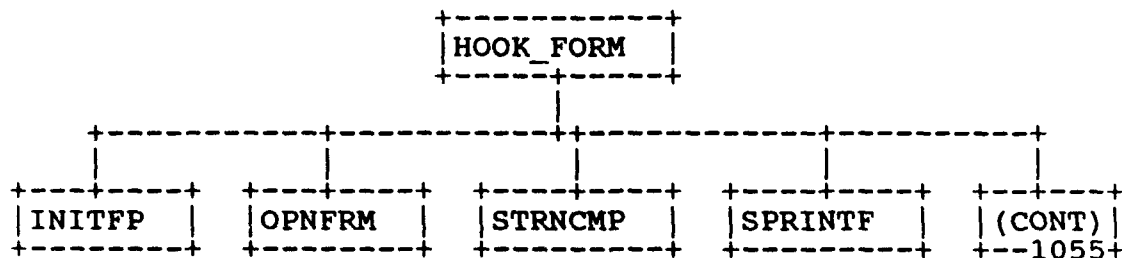
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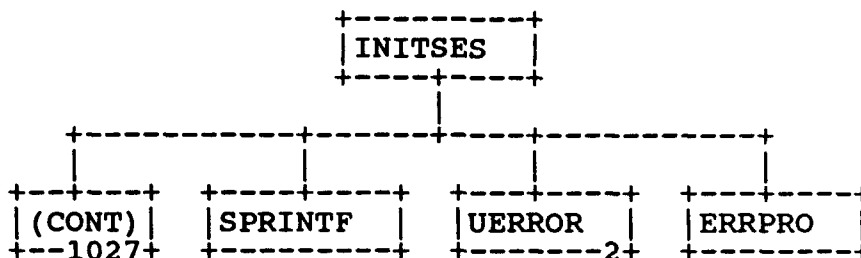
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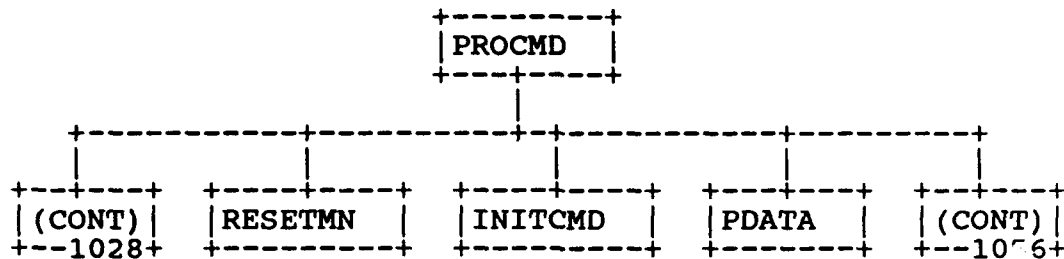
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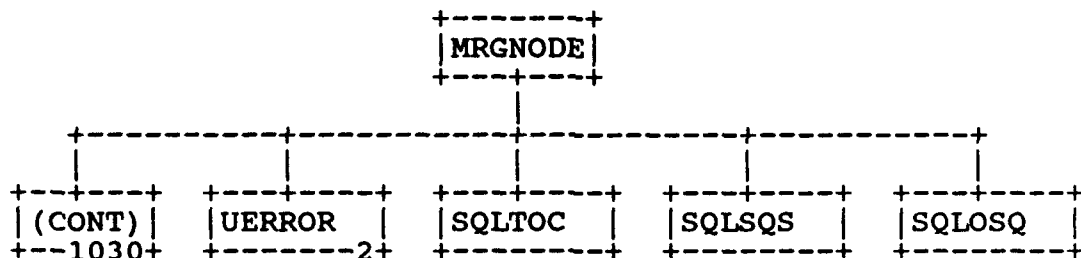
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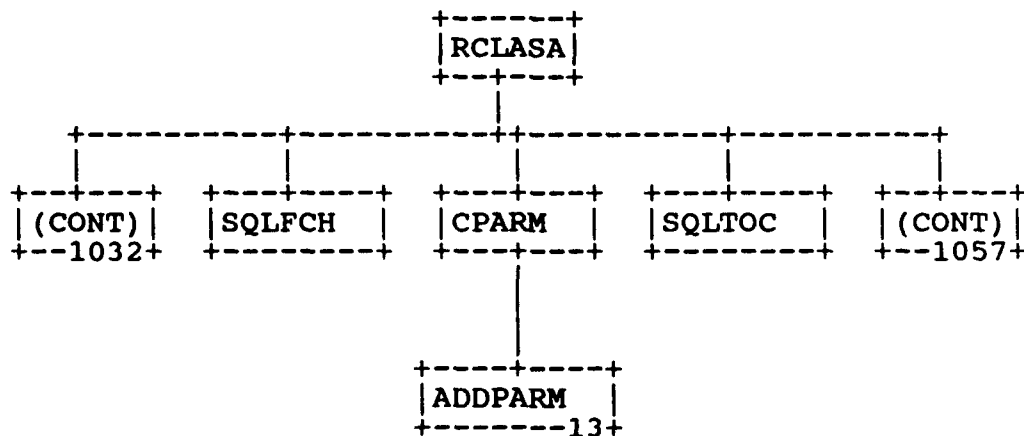
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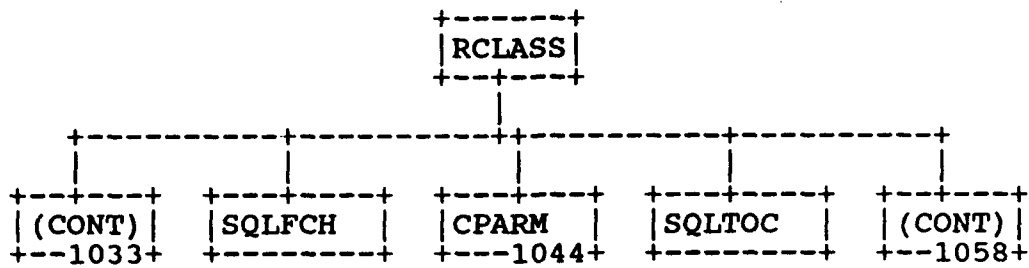
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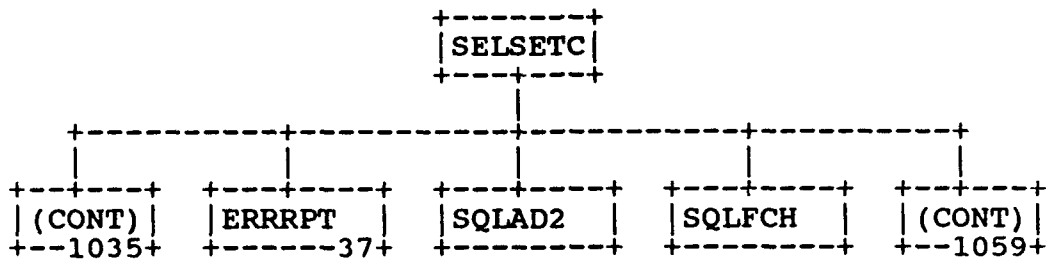
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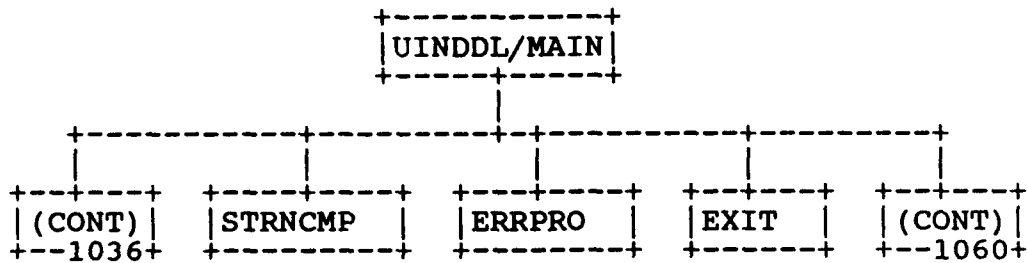
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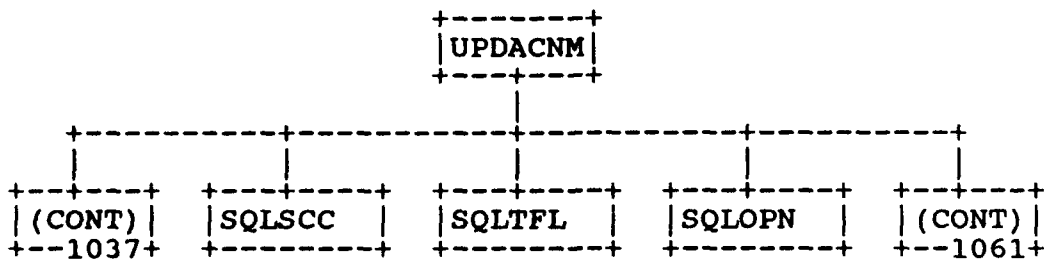
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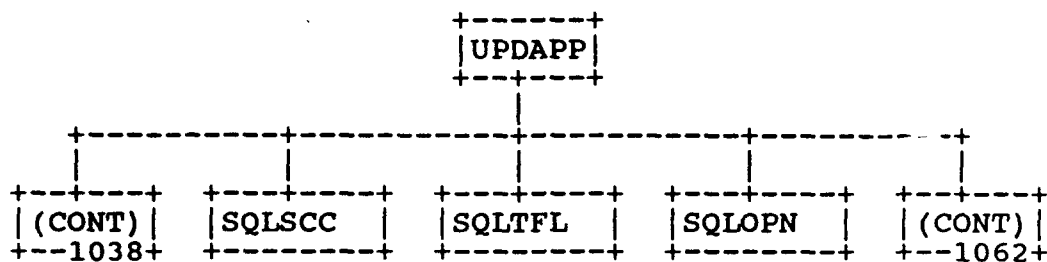
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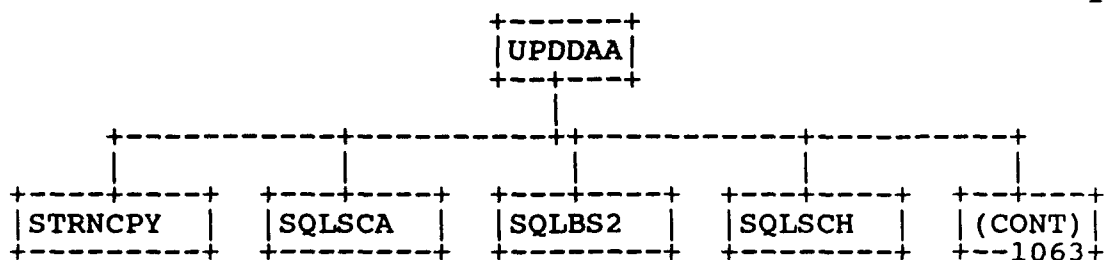
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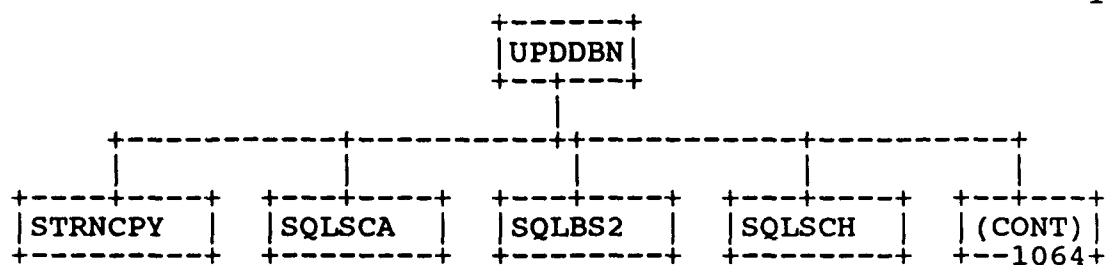
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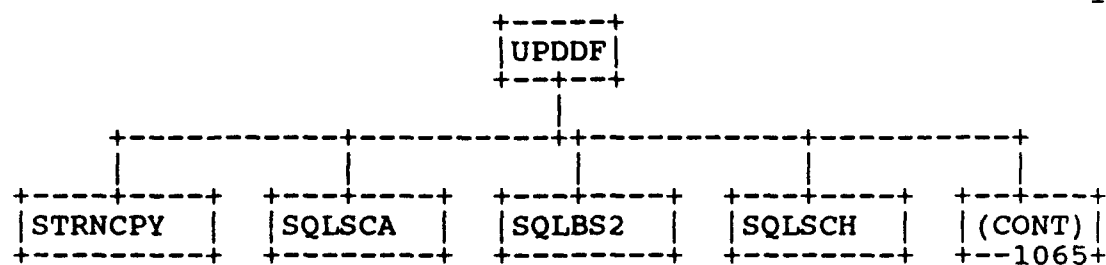
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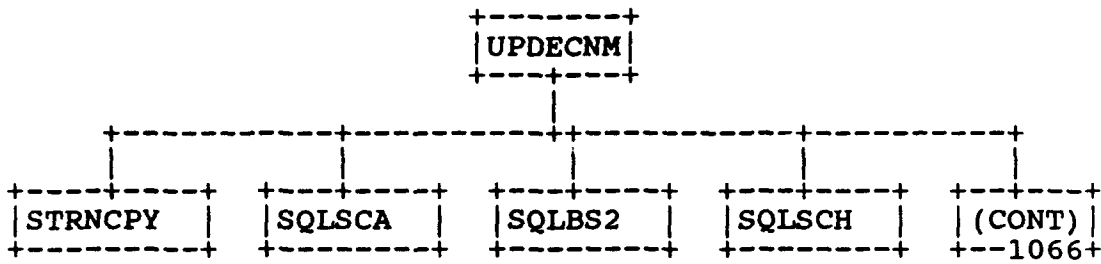
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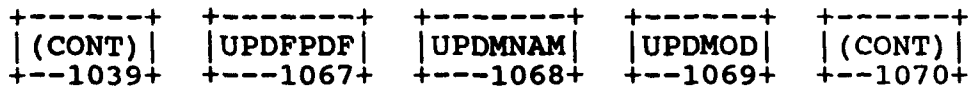
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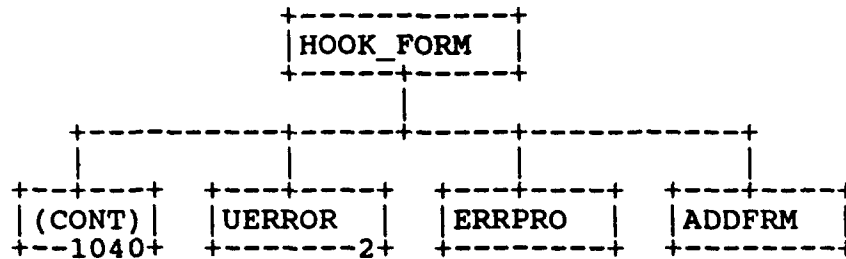
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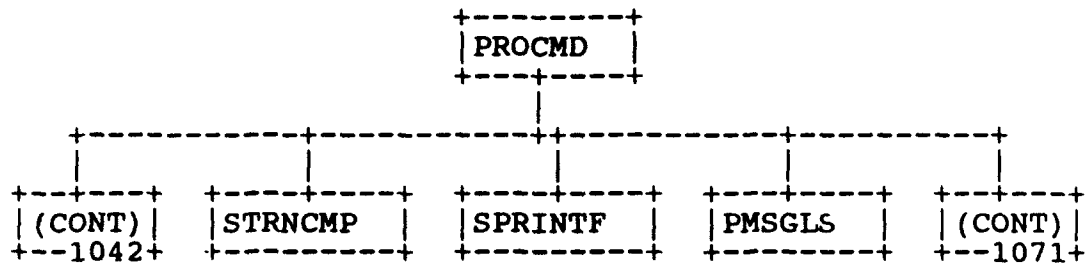
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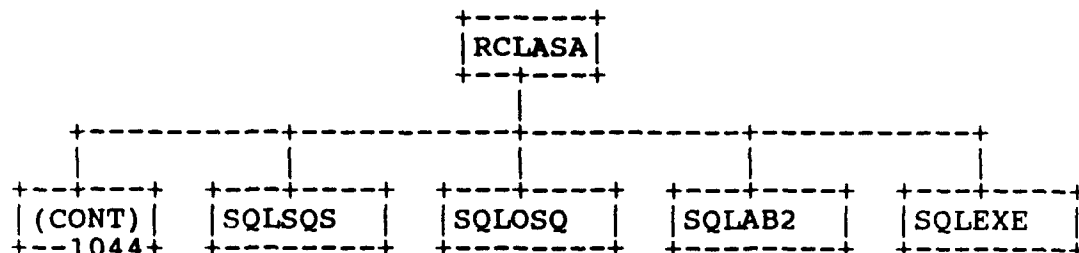
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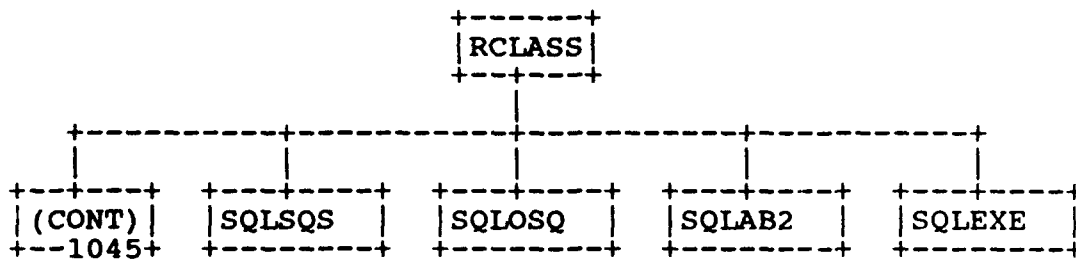
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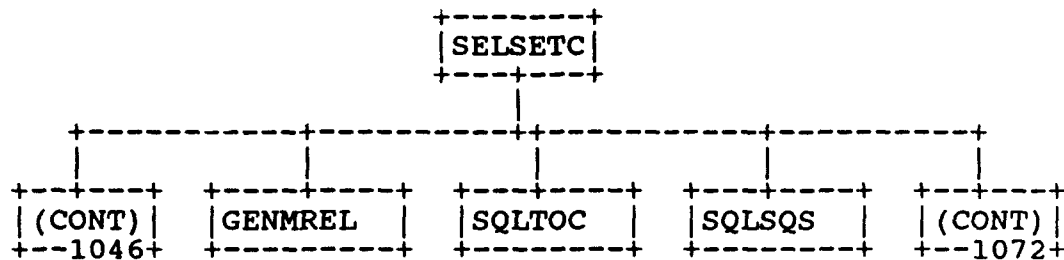
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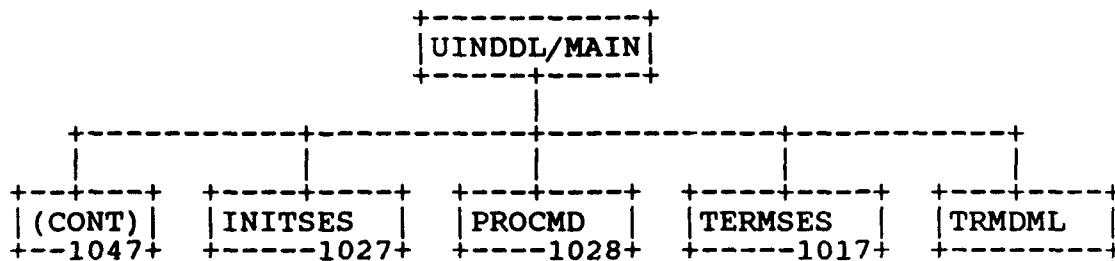
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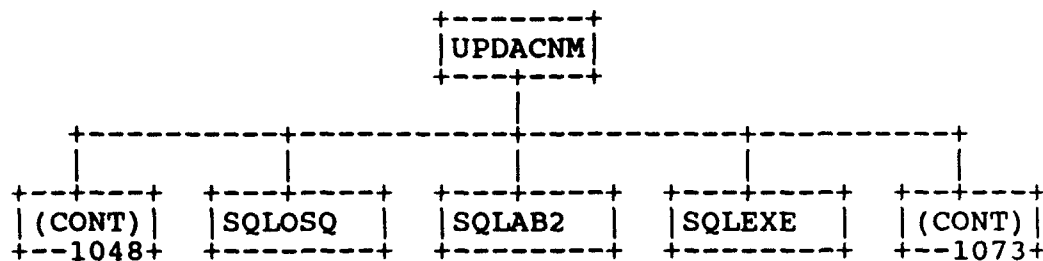
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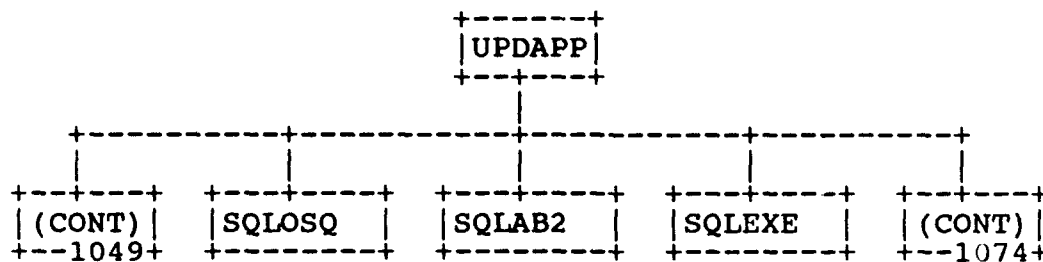
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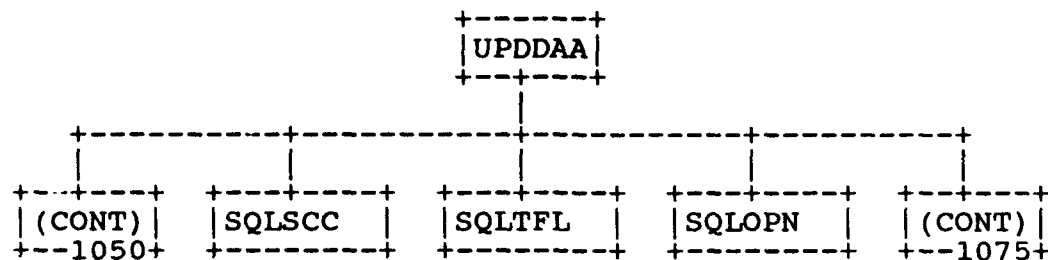
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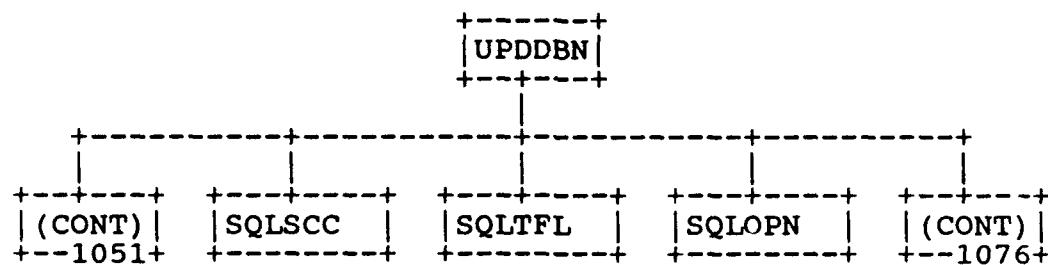
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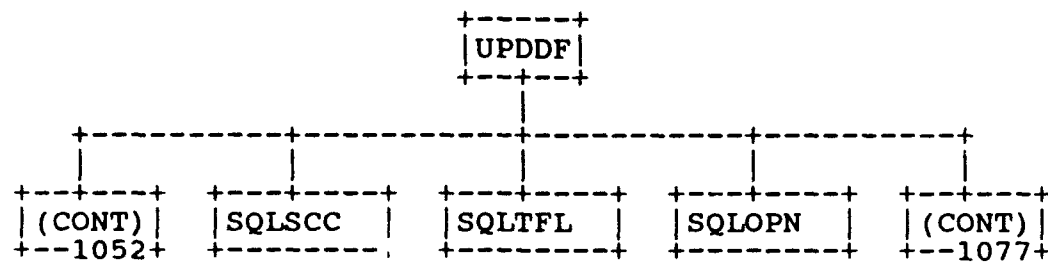
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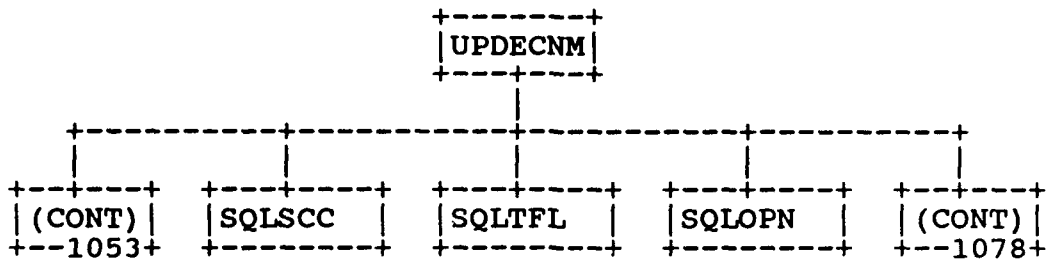
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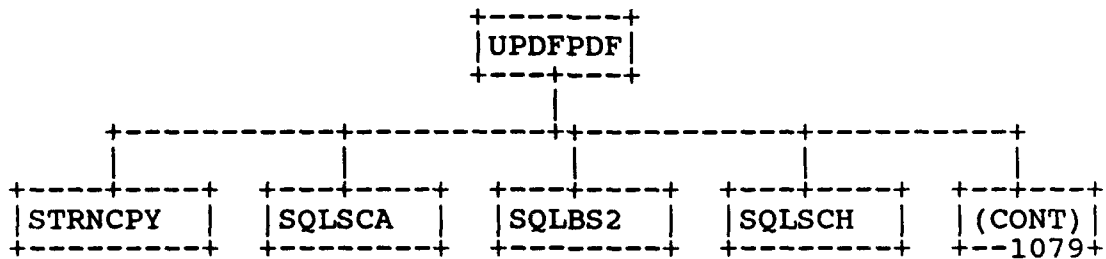
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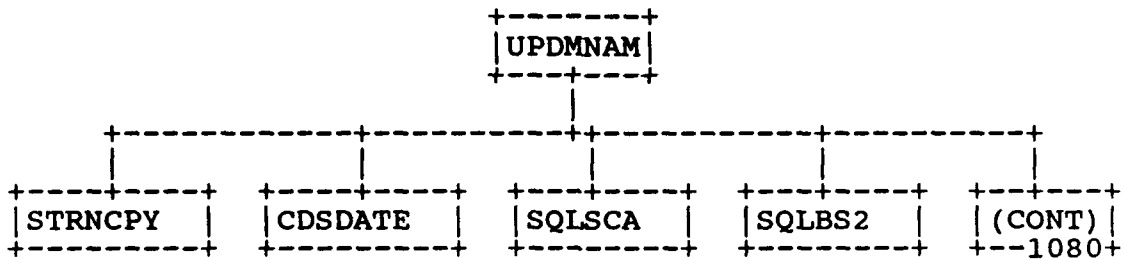
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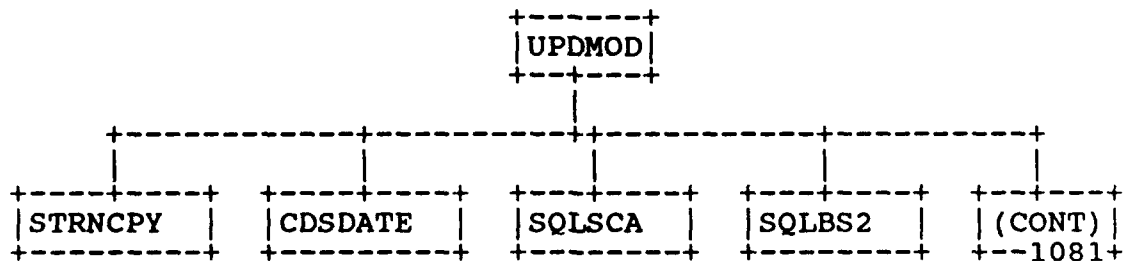
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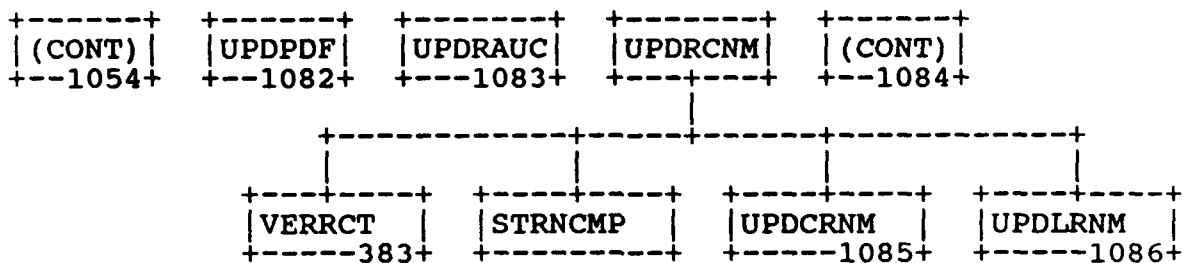
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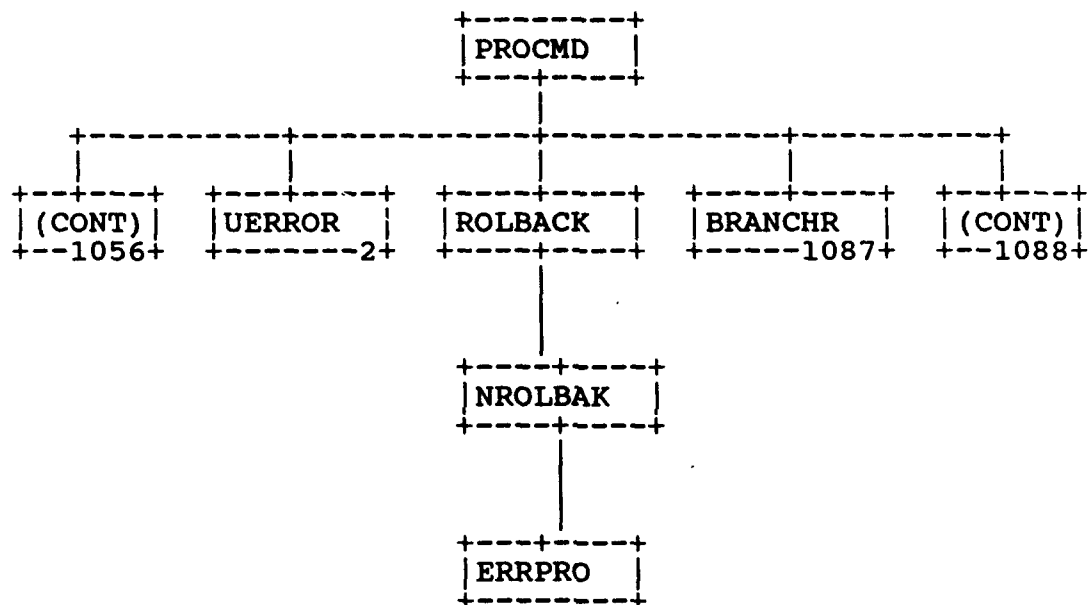
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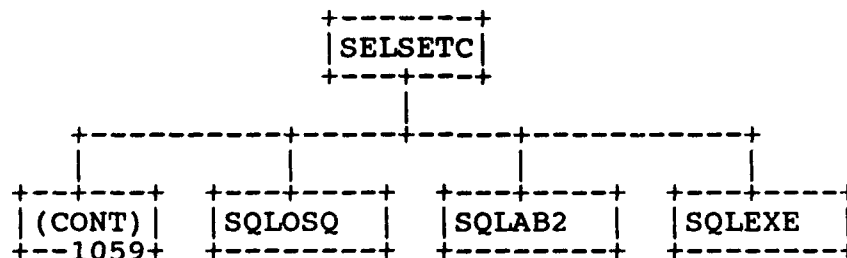
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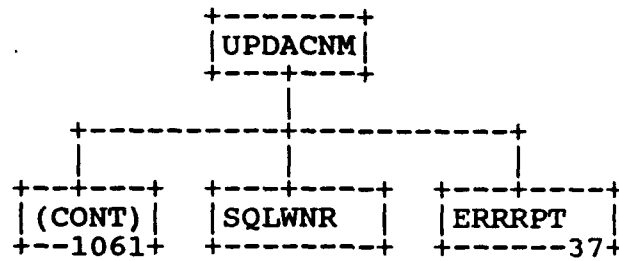
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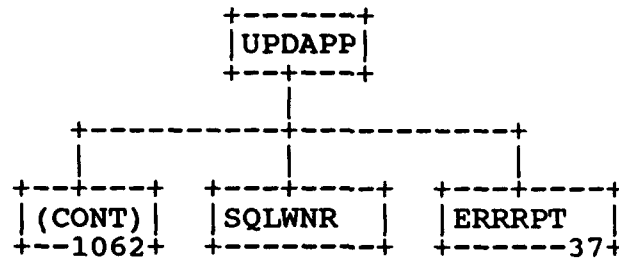
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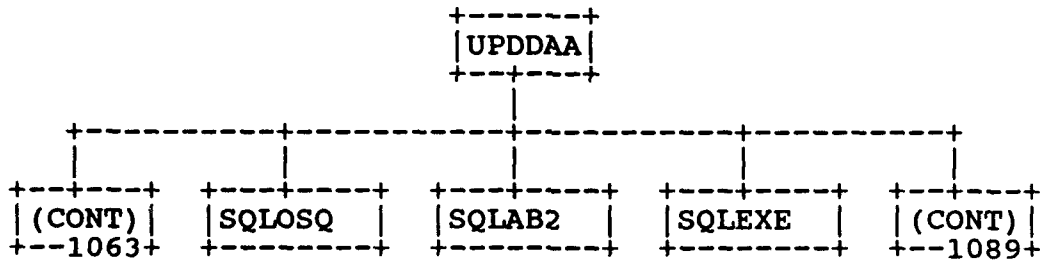
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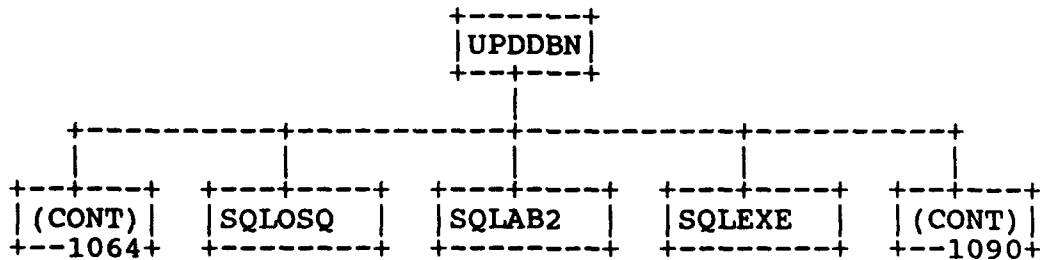
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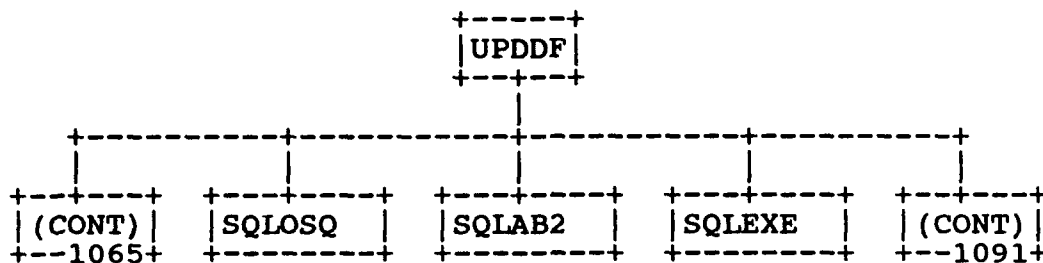
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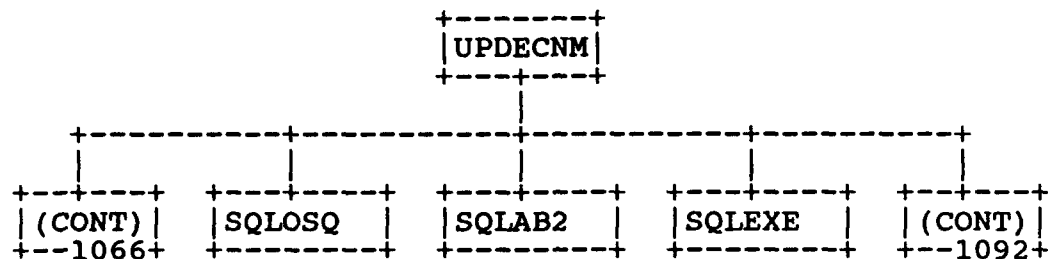
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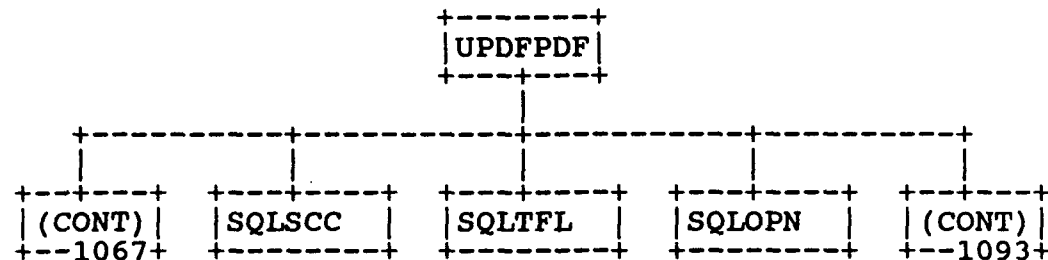
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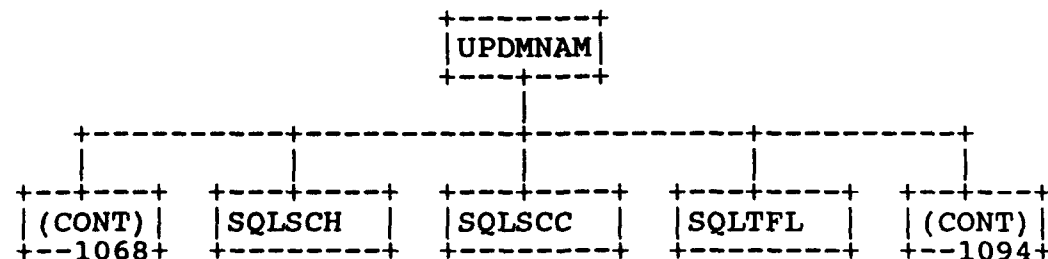
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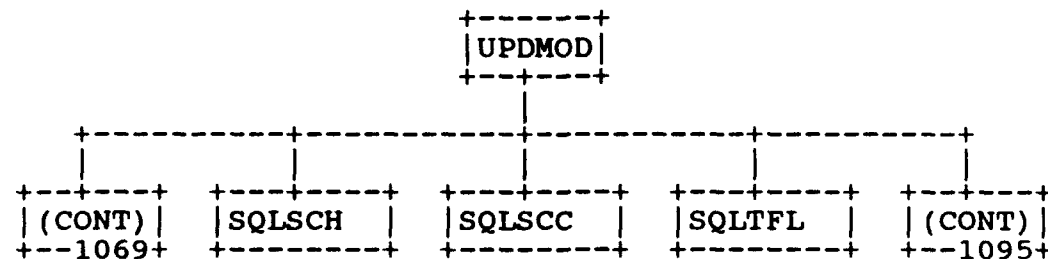
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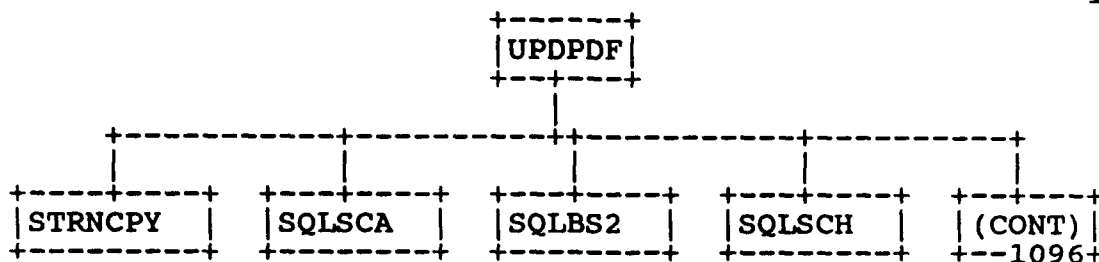
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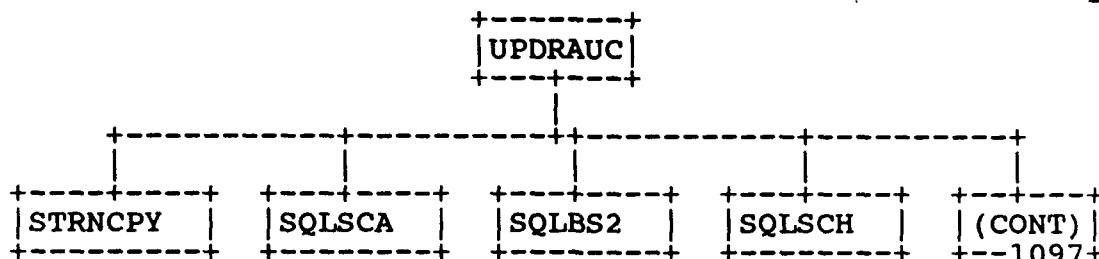
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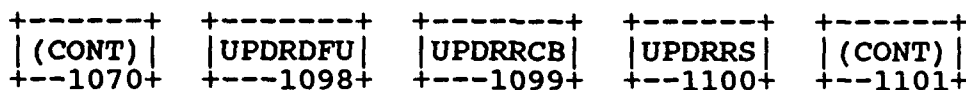
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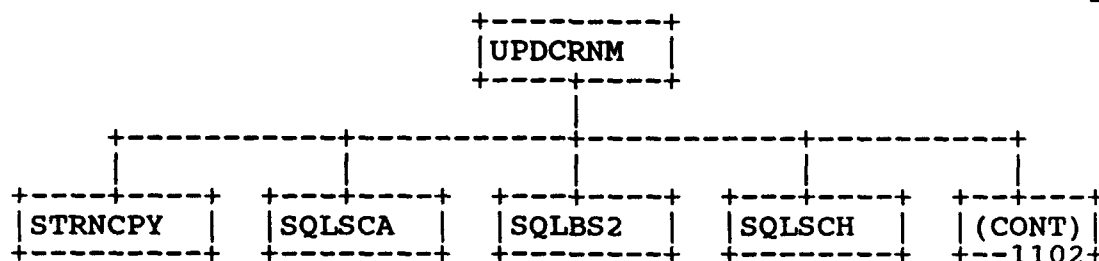
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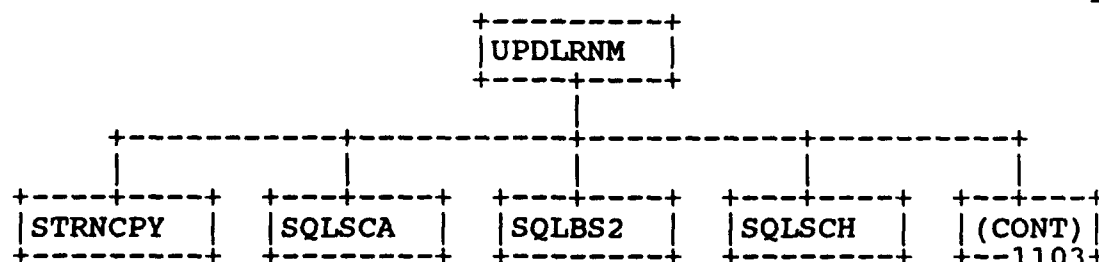
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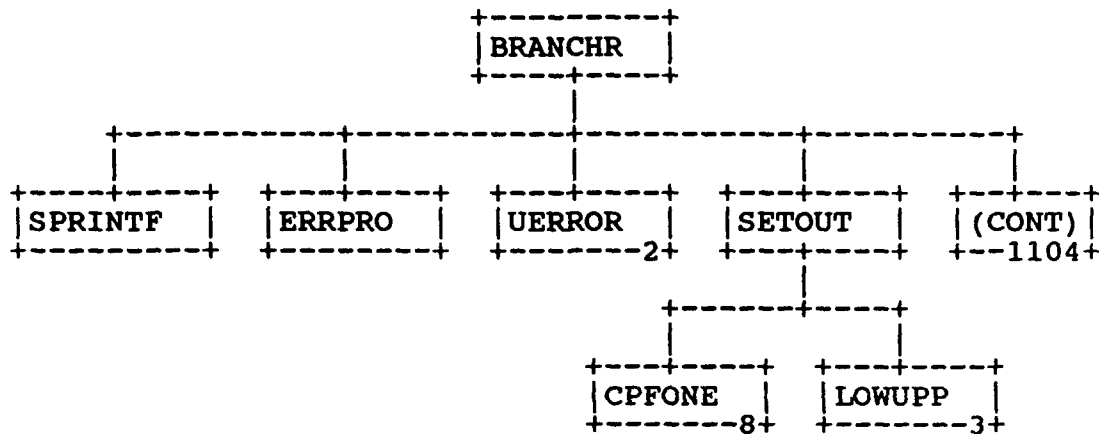
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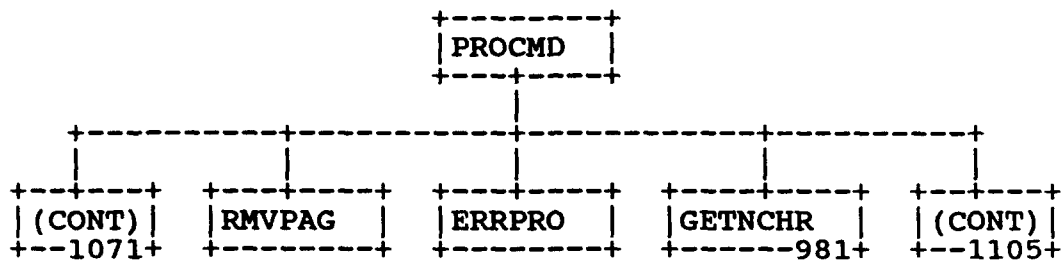
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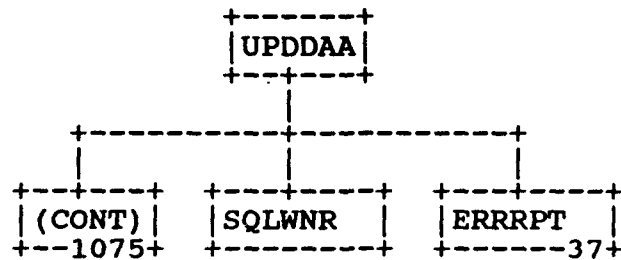
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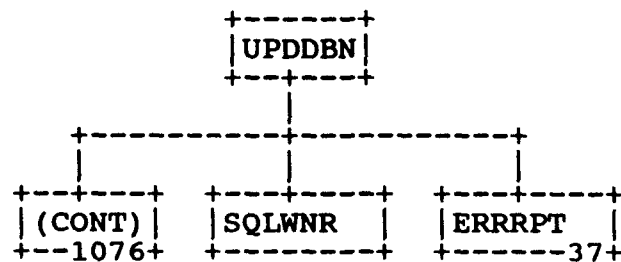
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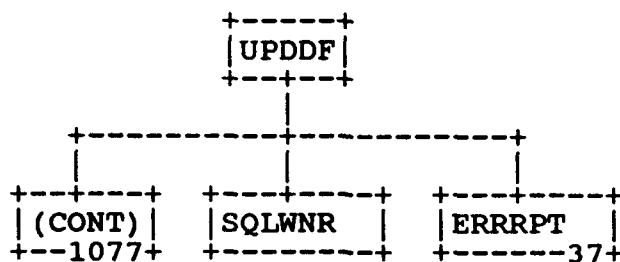
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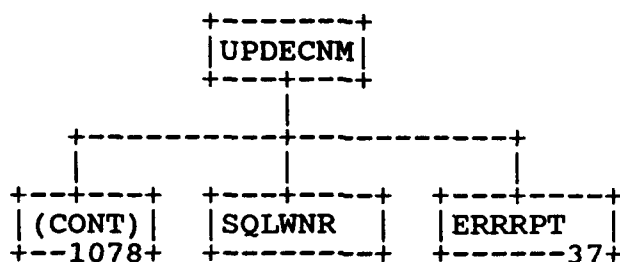
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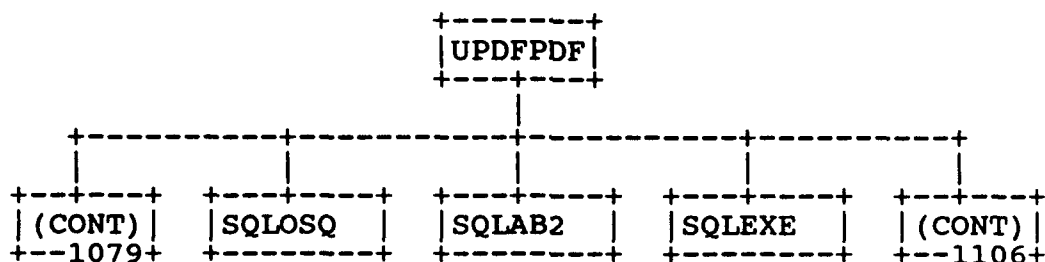
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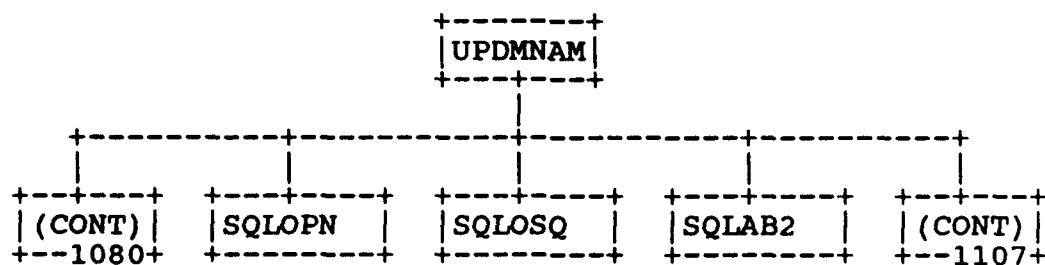
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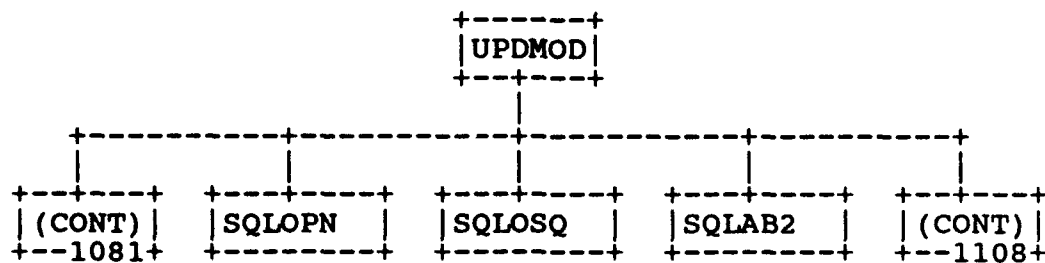
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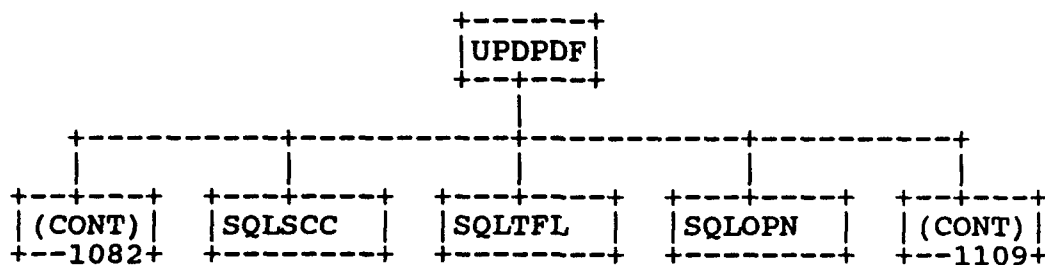
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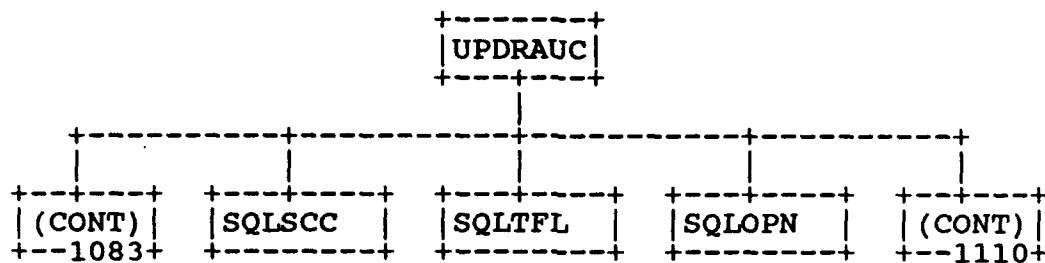
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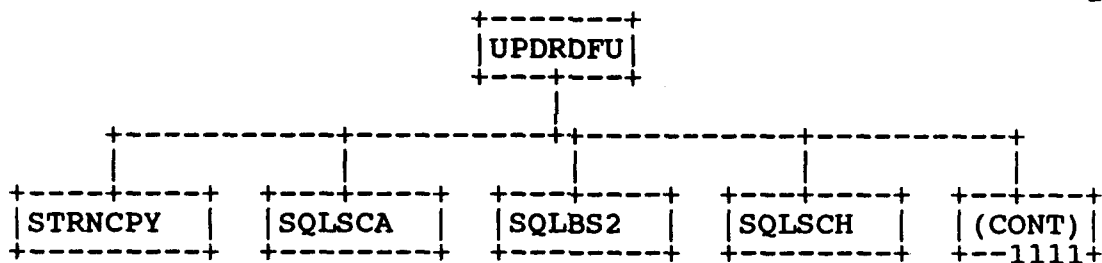
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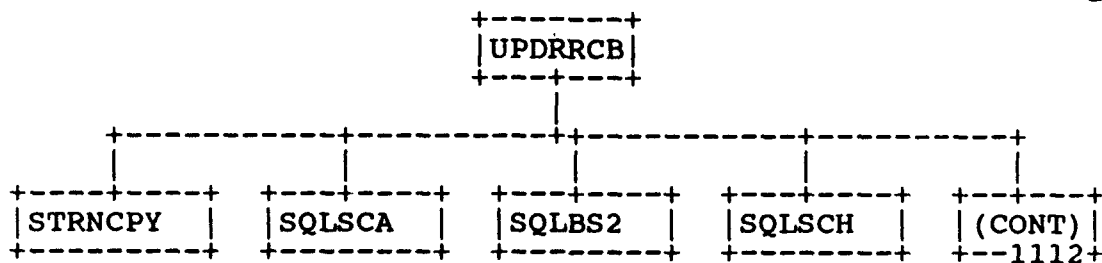
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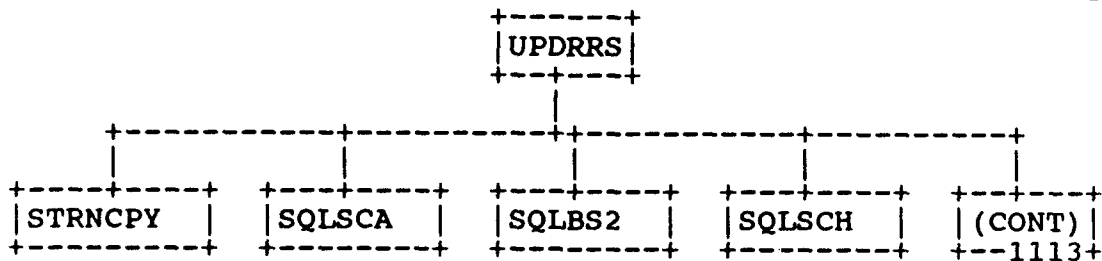
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1099



1100



1101

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-1084	-1114	-1115	-1116	-1117

1102

UPDCRNM				
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-1085				-1118

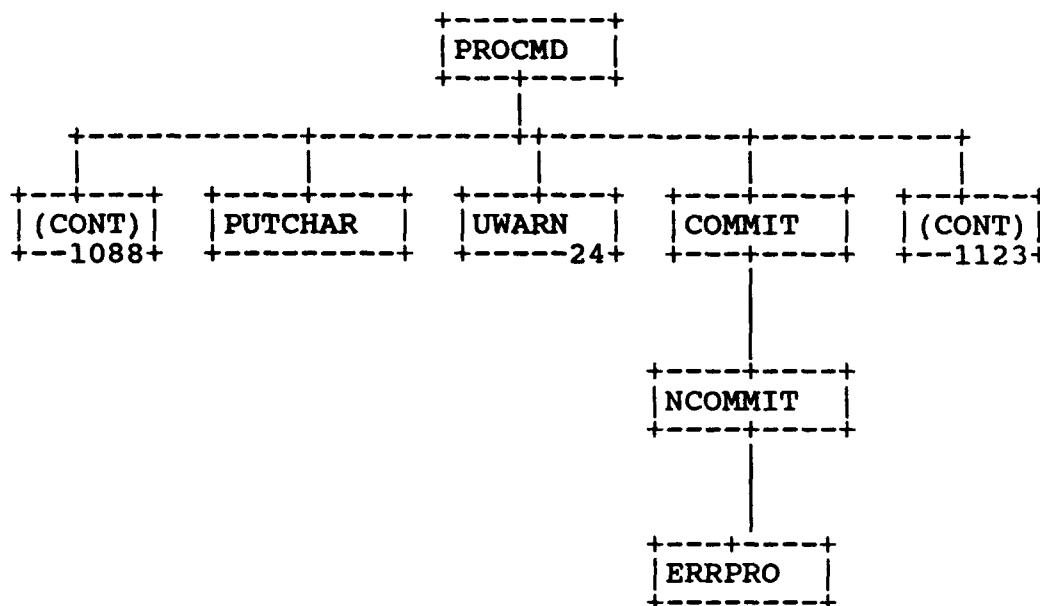
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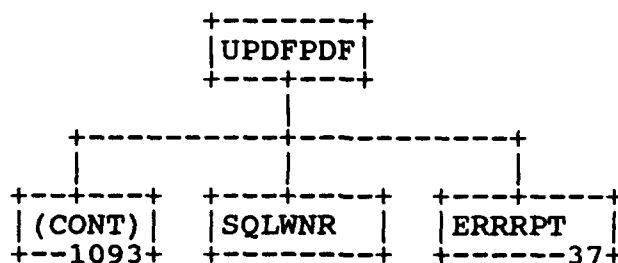
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BRANCHR				
(CONT)	HALT	ALTALI	ALTATT	(CONT)
-1087		-1120	-1121	-1122
CPHONE	ROLBACK	COMMIT		
-8	-1071	-1105		

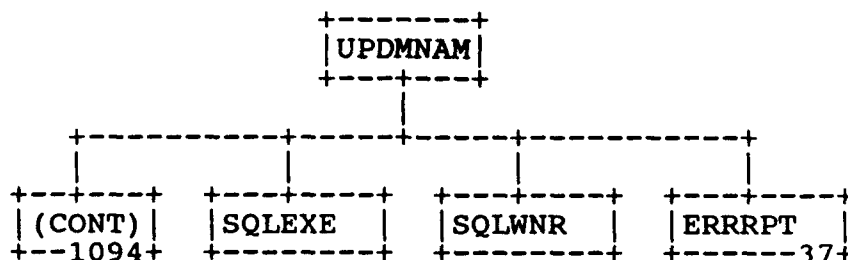
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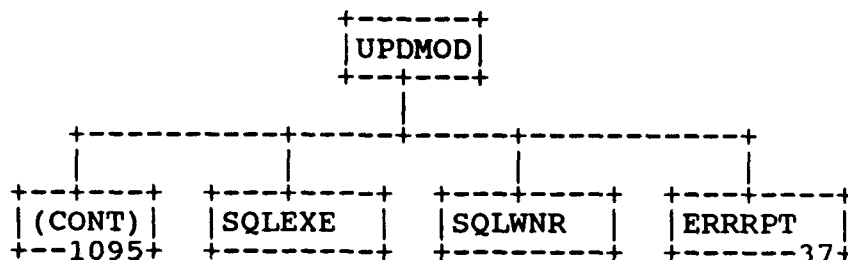
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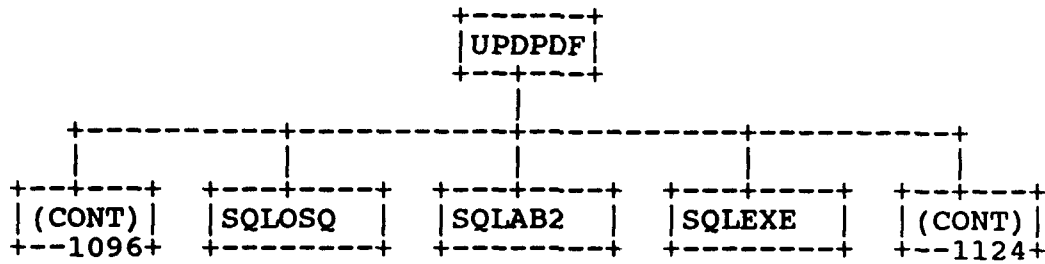
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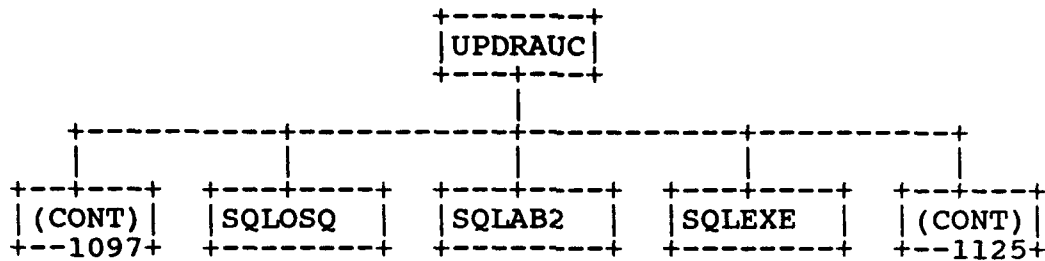
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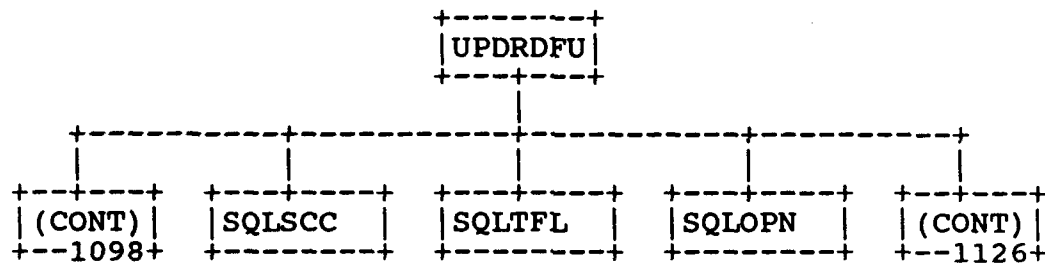
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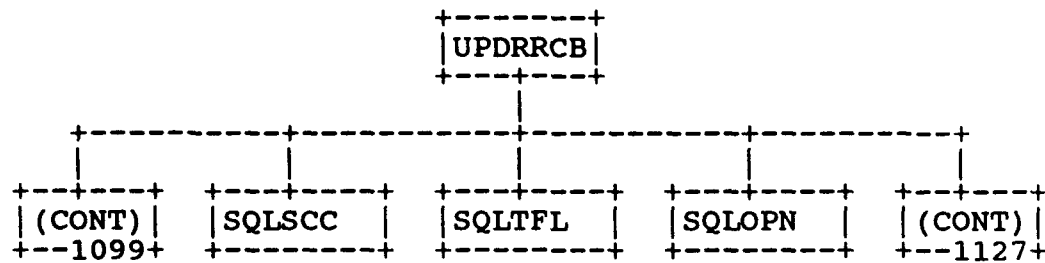
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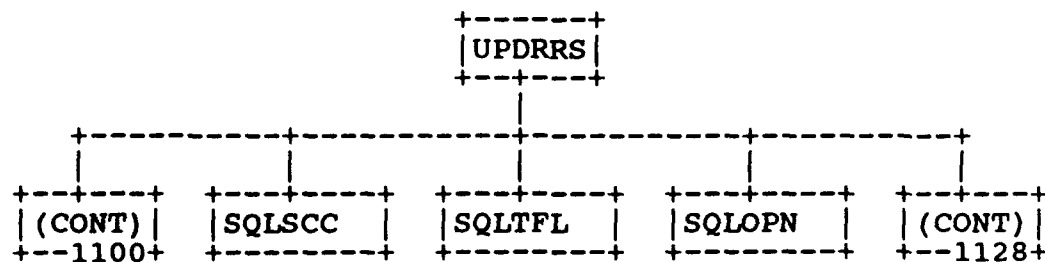
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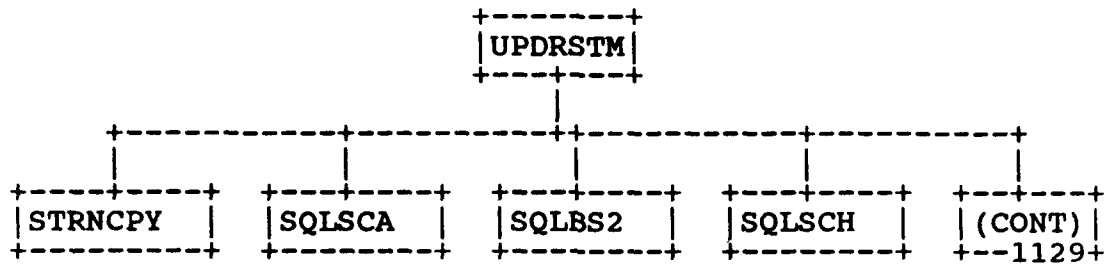
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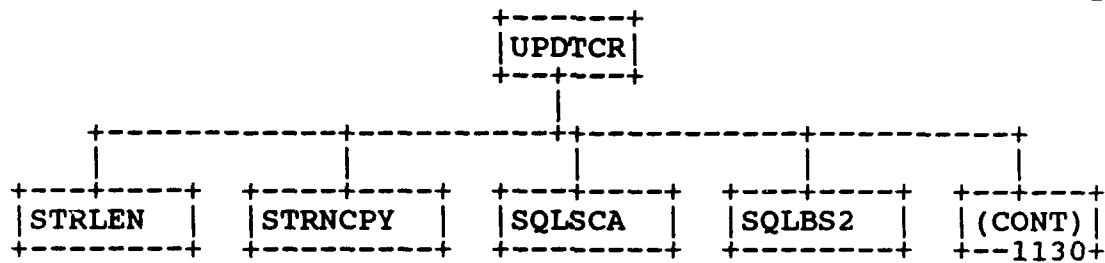
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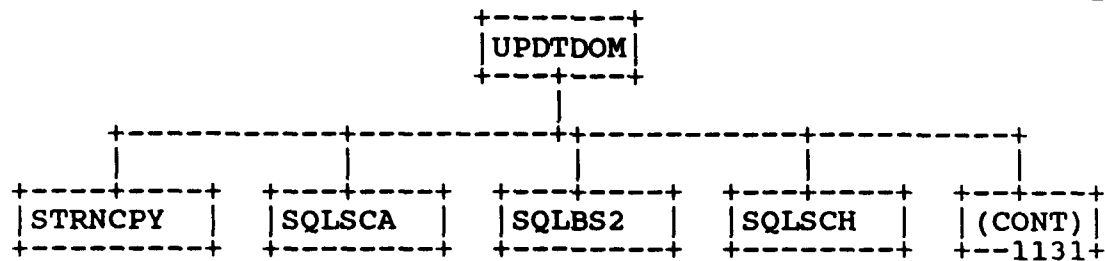
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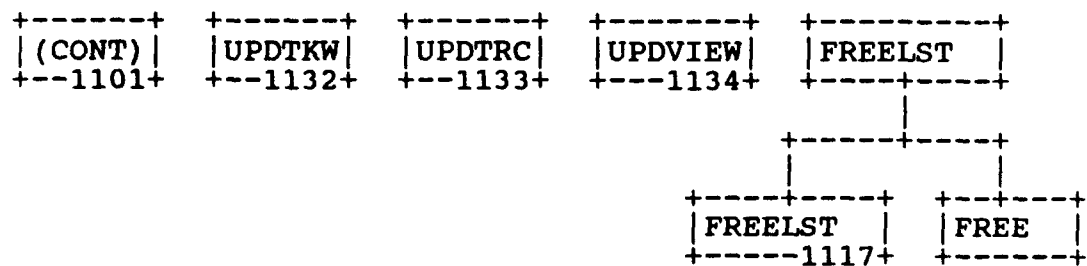
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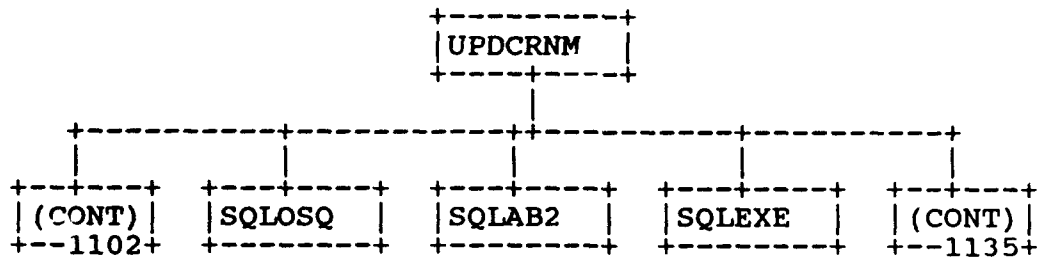
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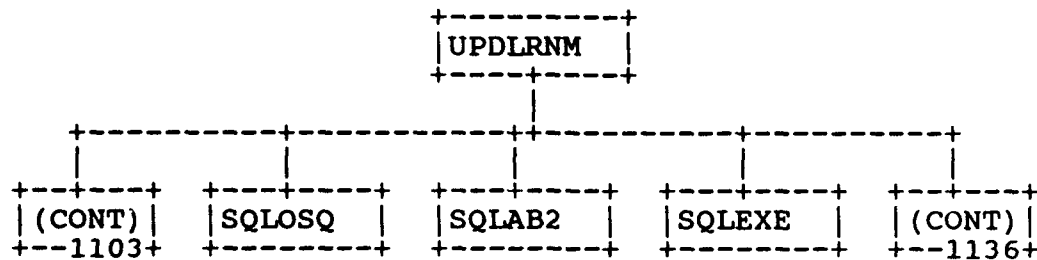
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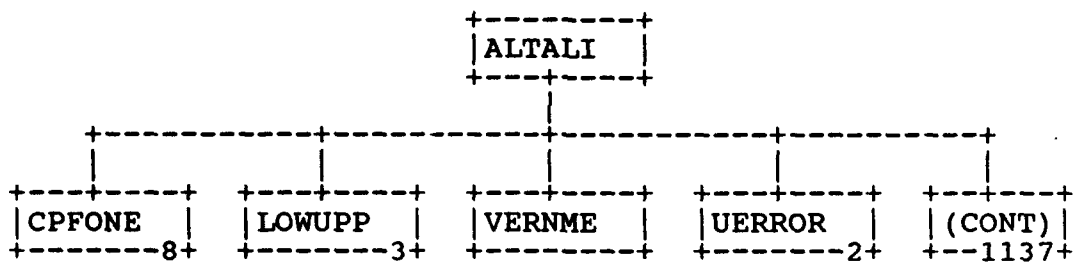
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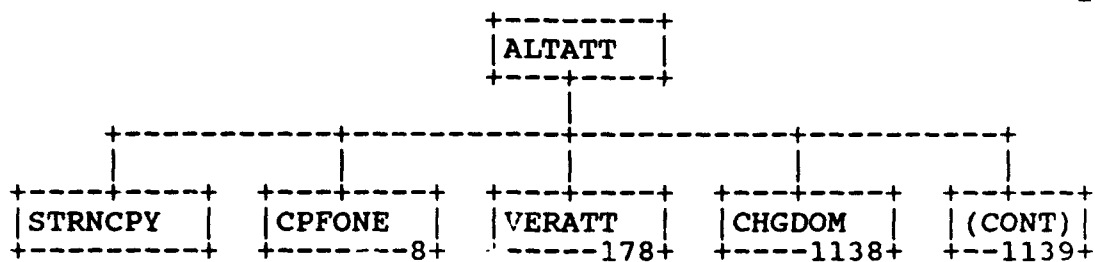
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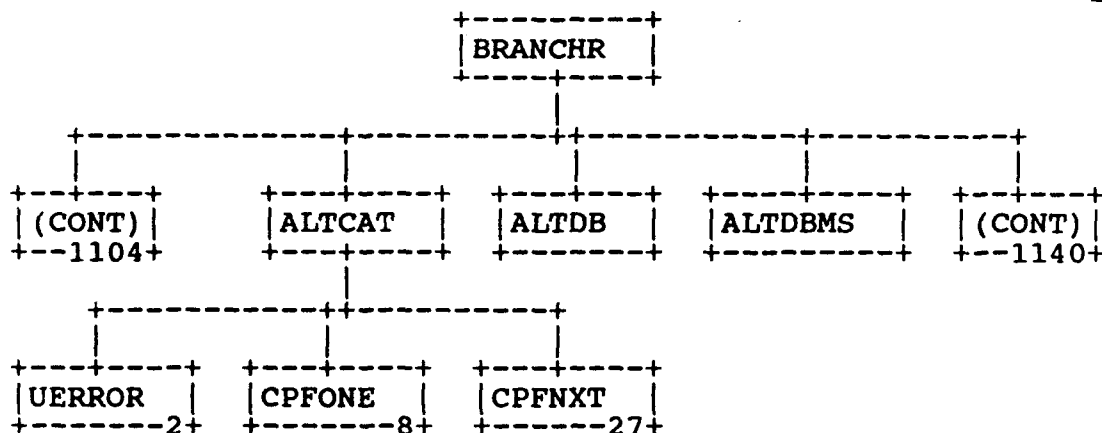
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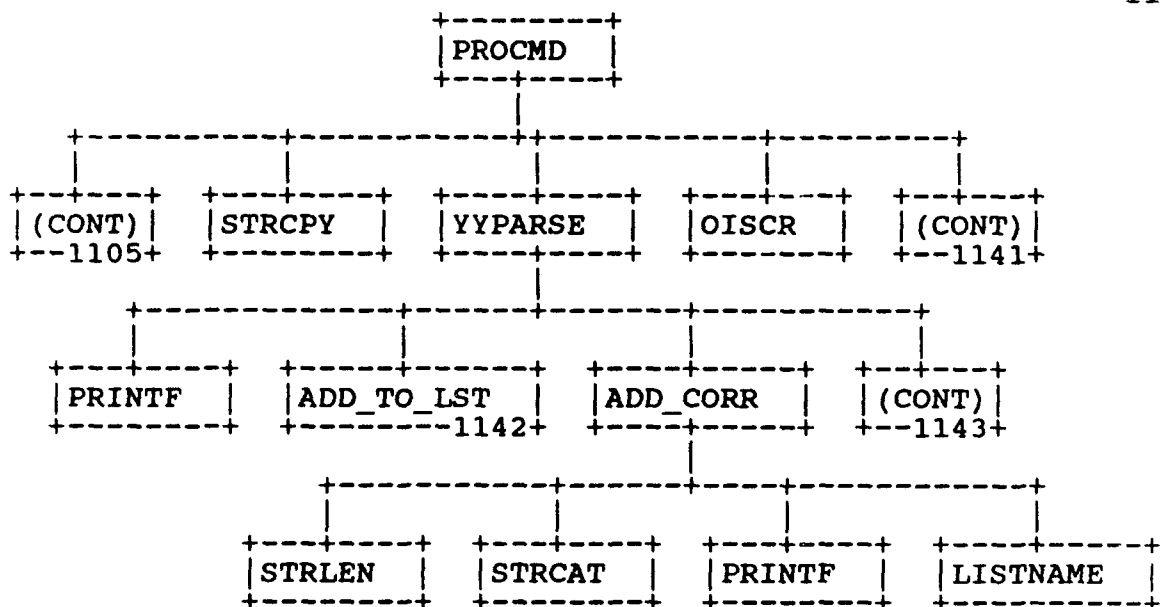
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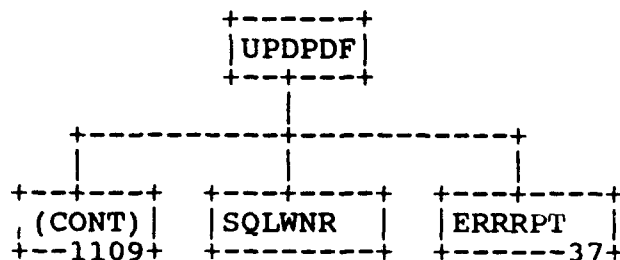
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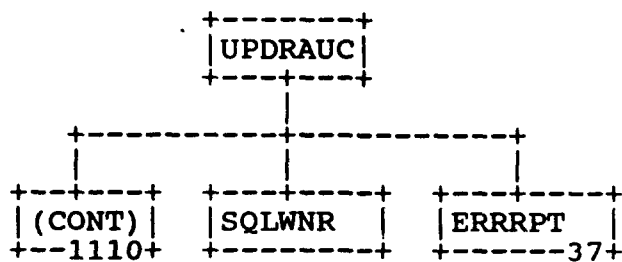
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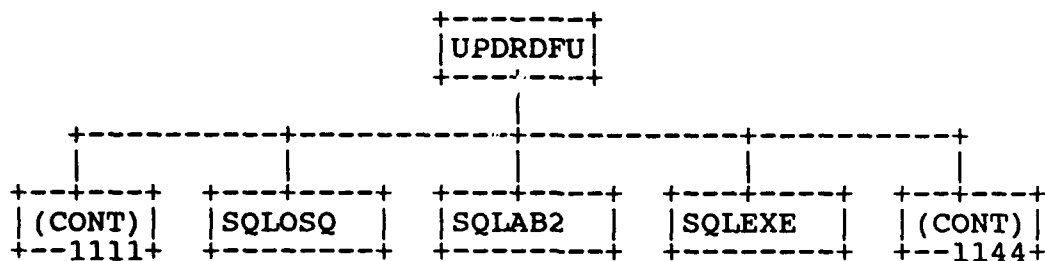
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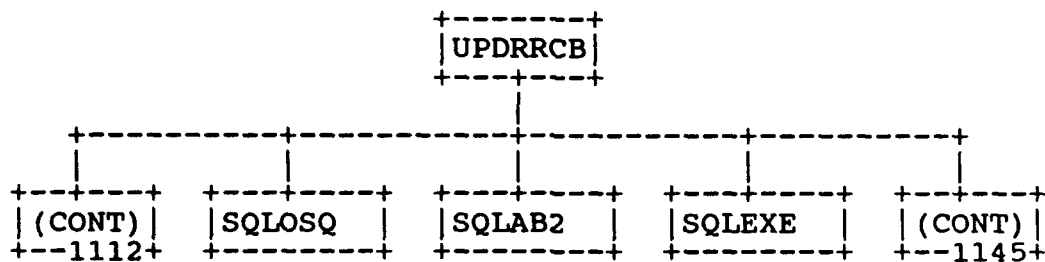
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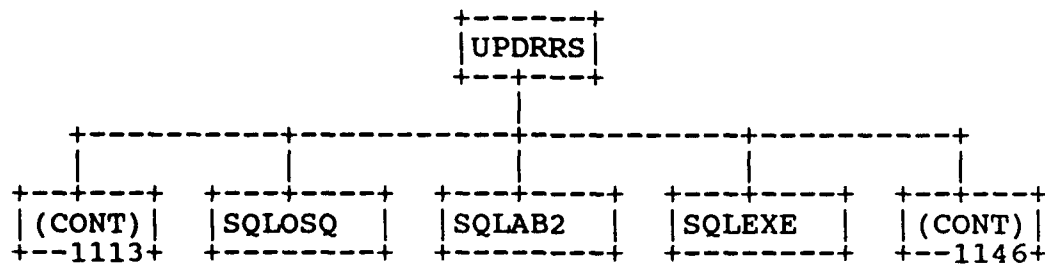
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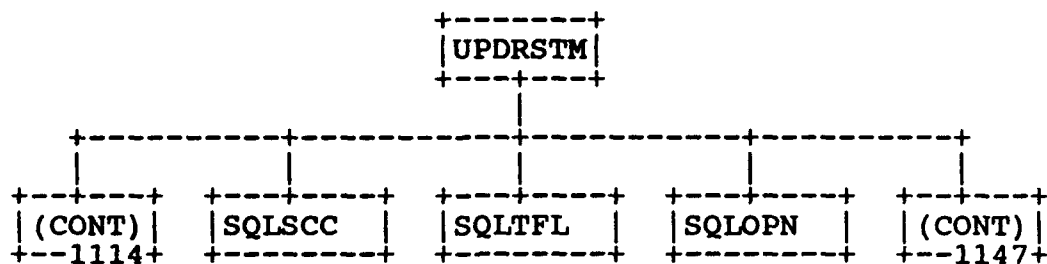
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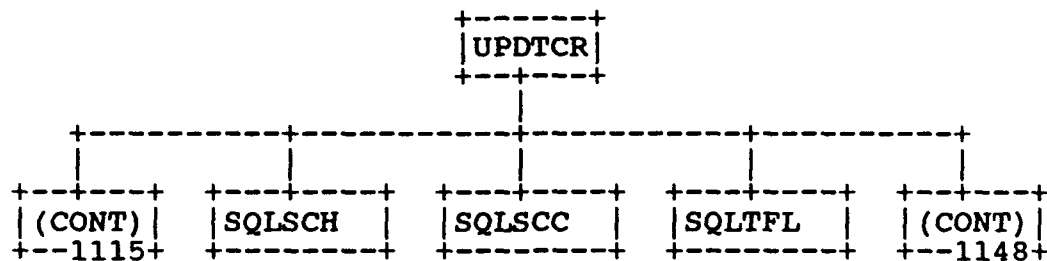
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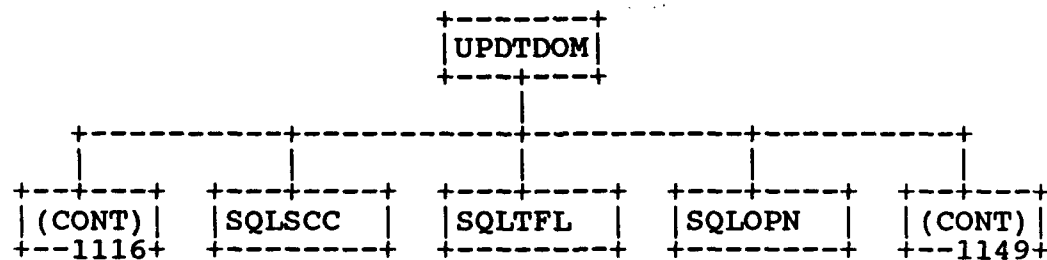
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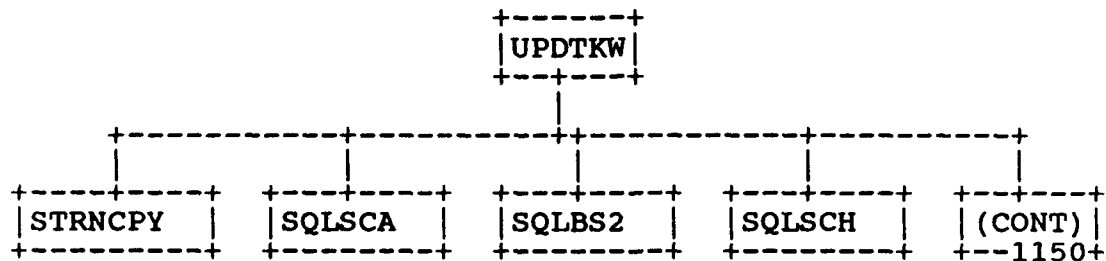
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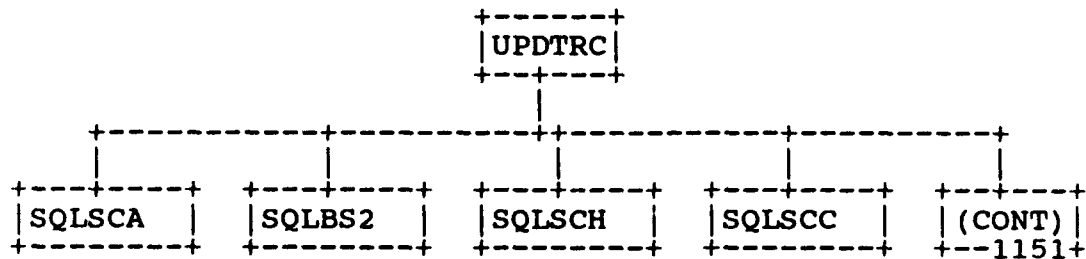
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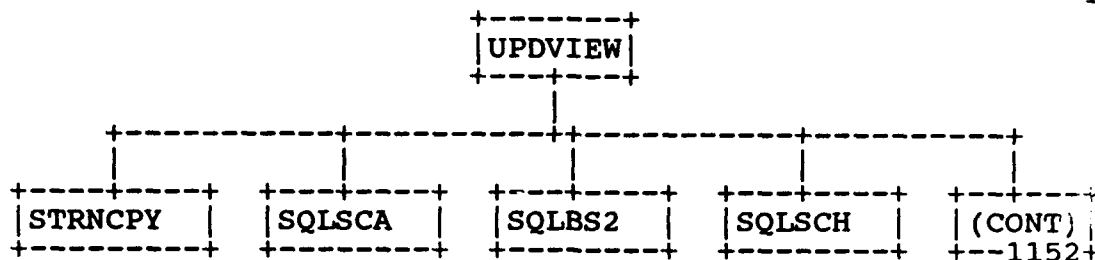
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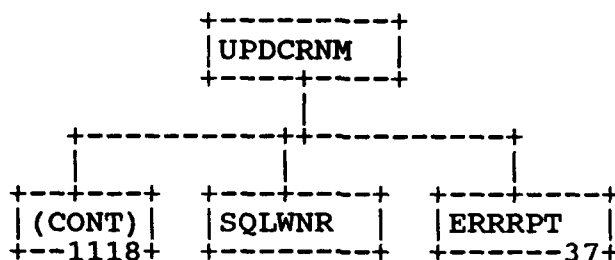
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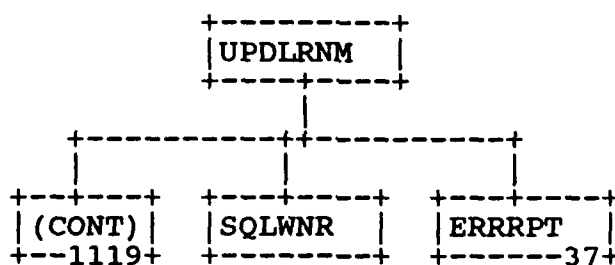
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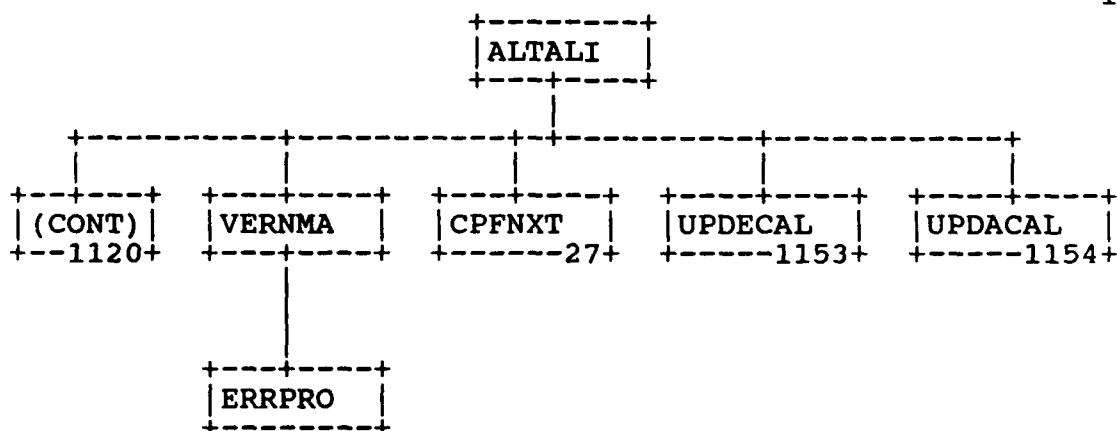
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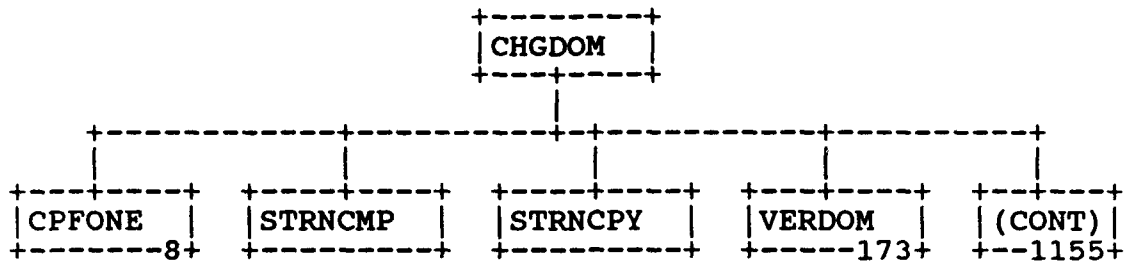
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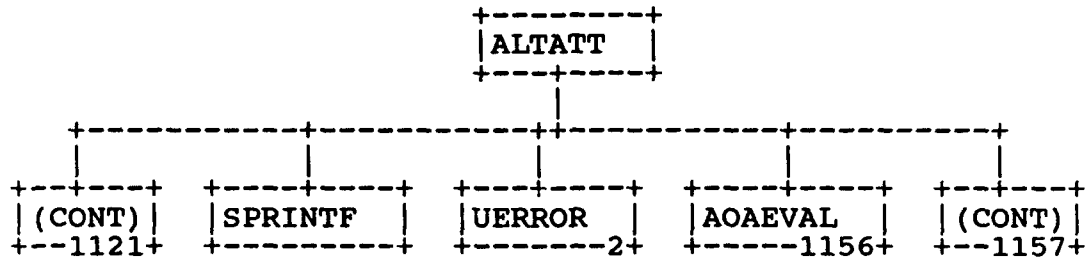
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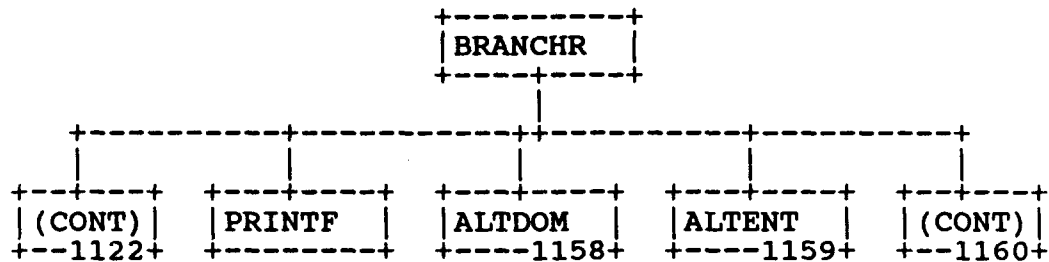
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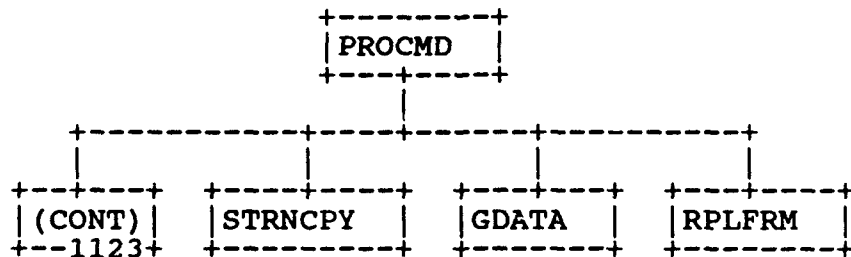
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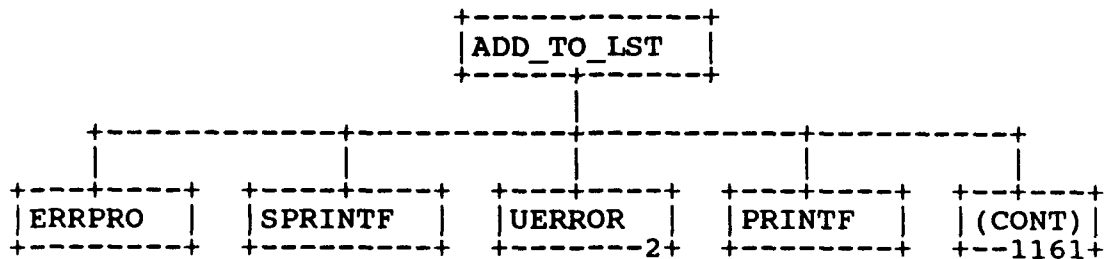
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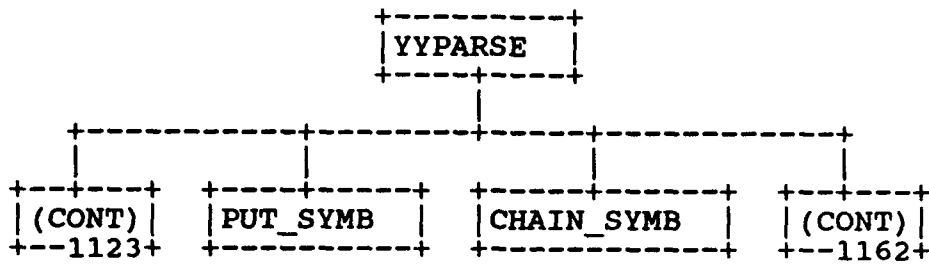
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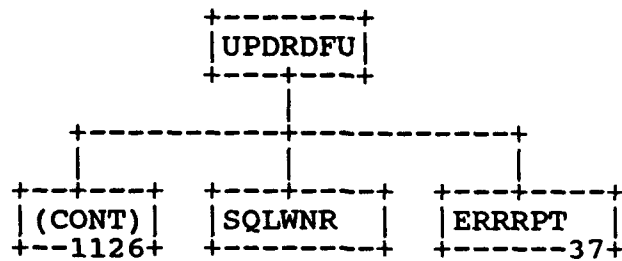
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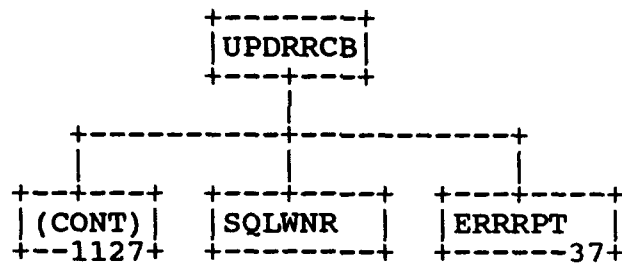
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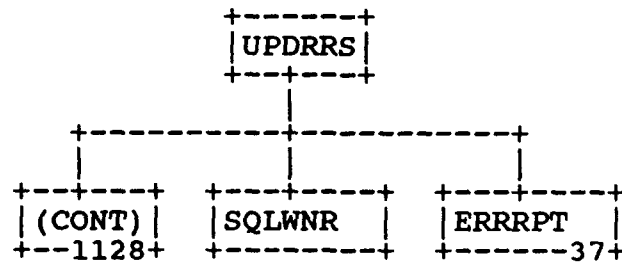
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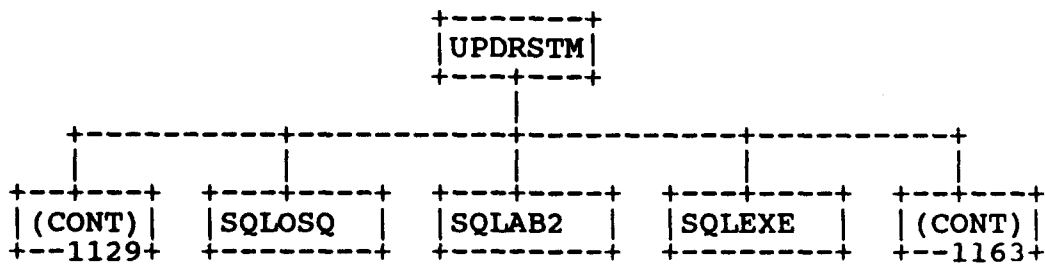
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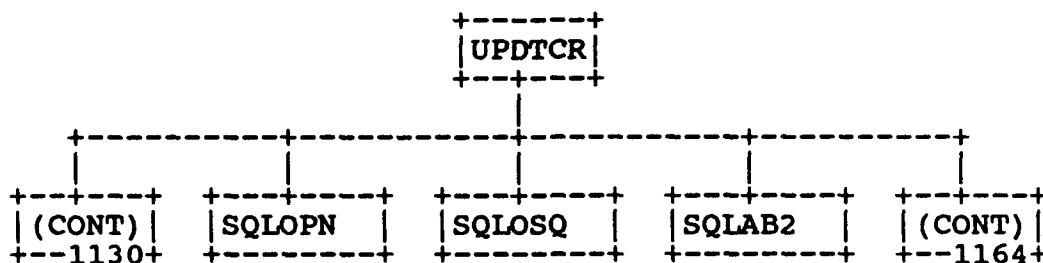
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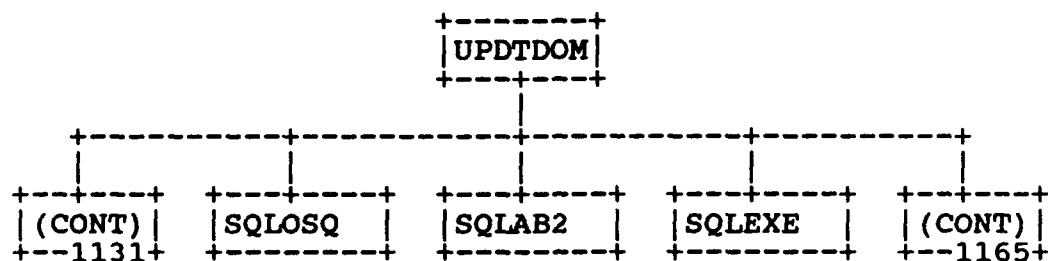
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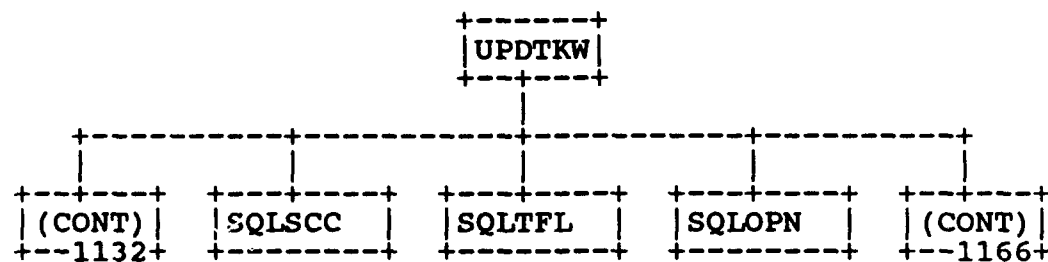
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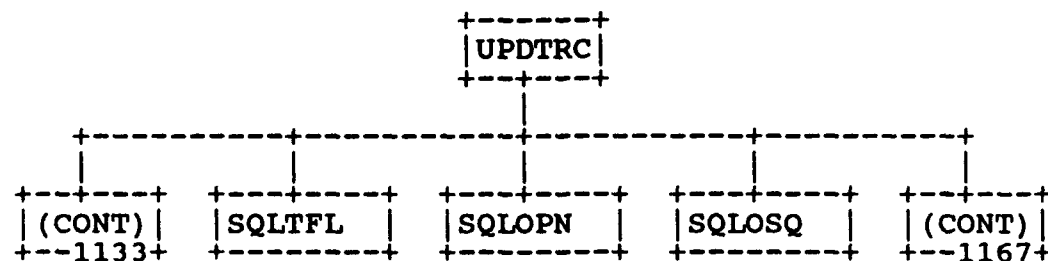
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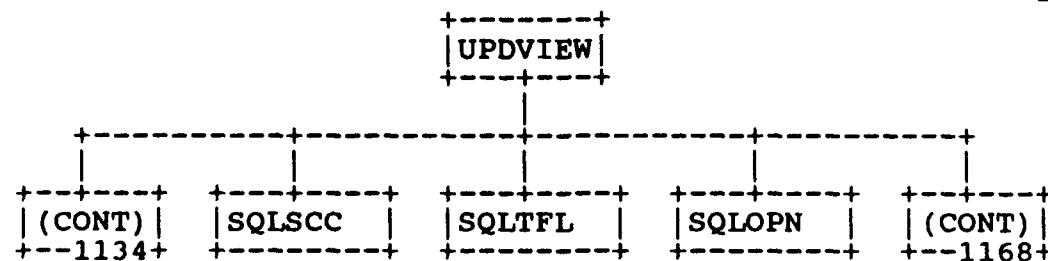
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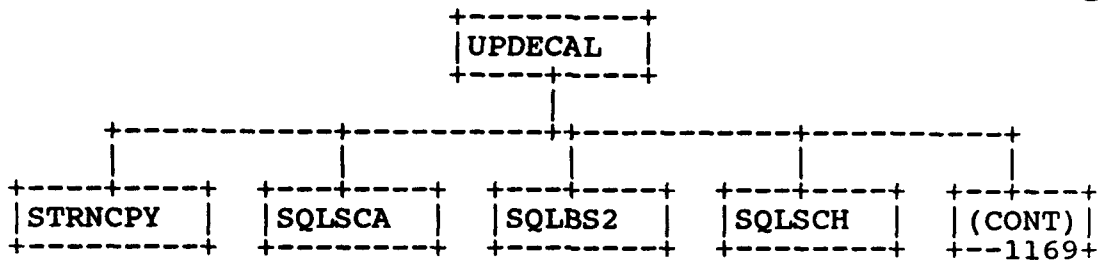
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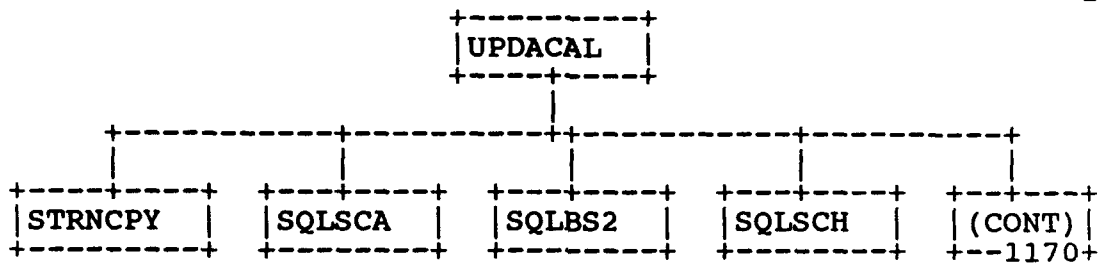
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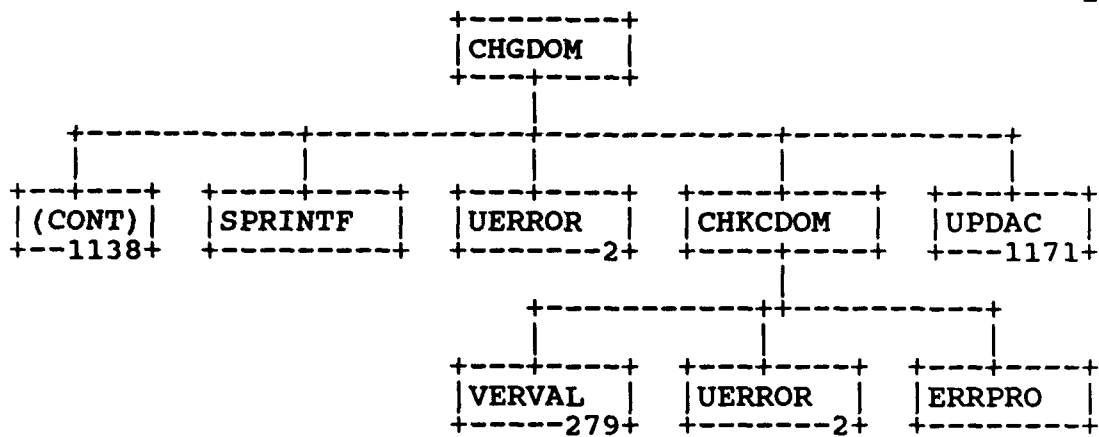
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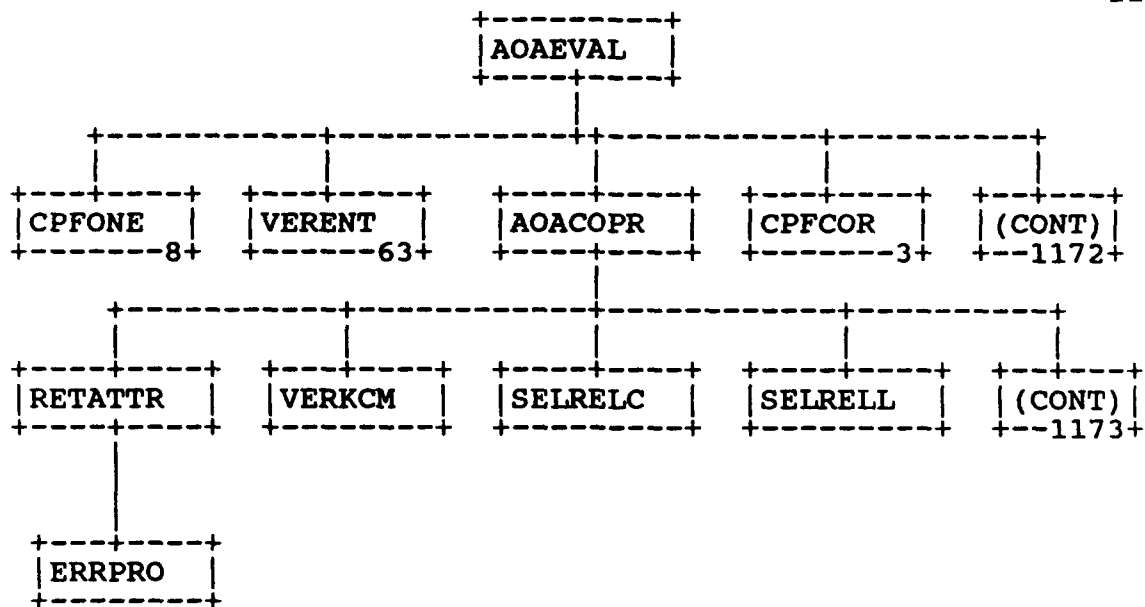
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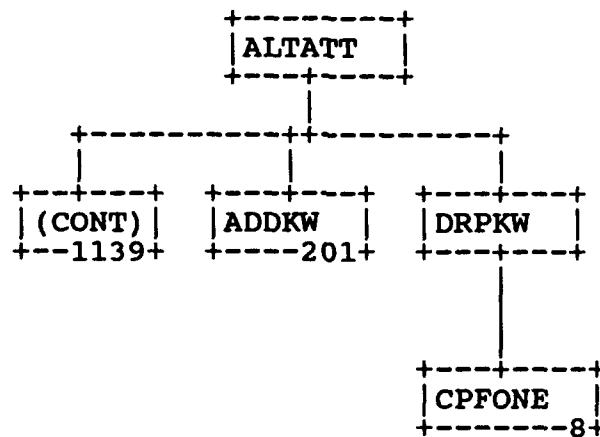
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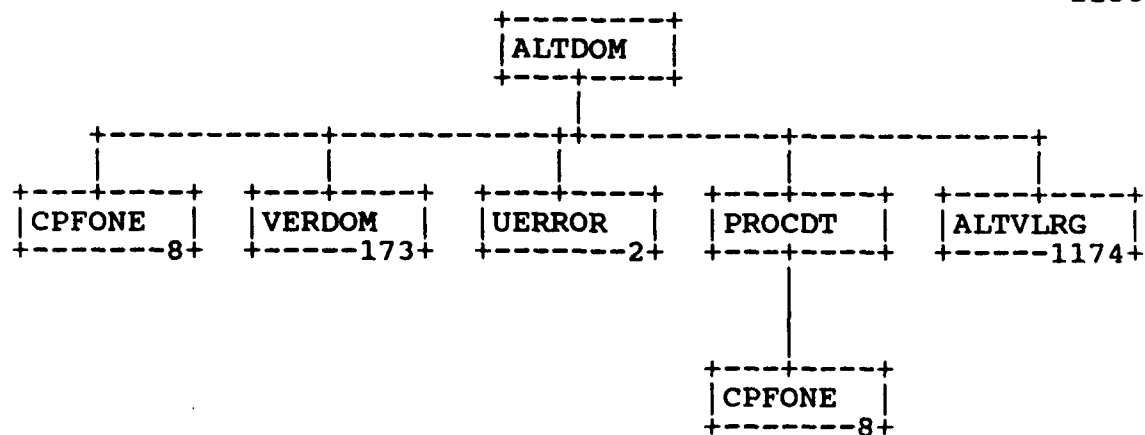
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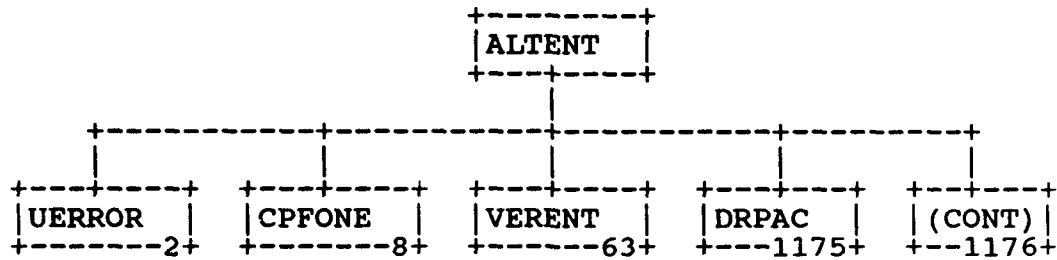
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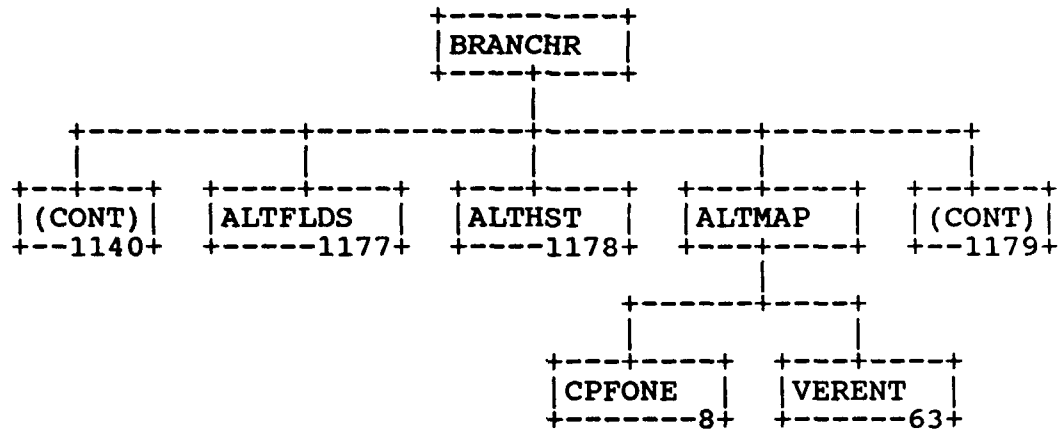
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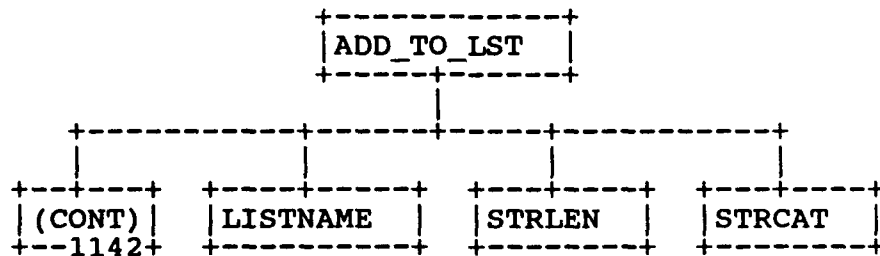
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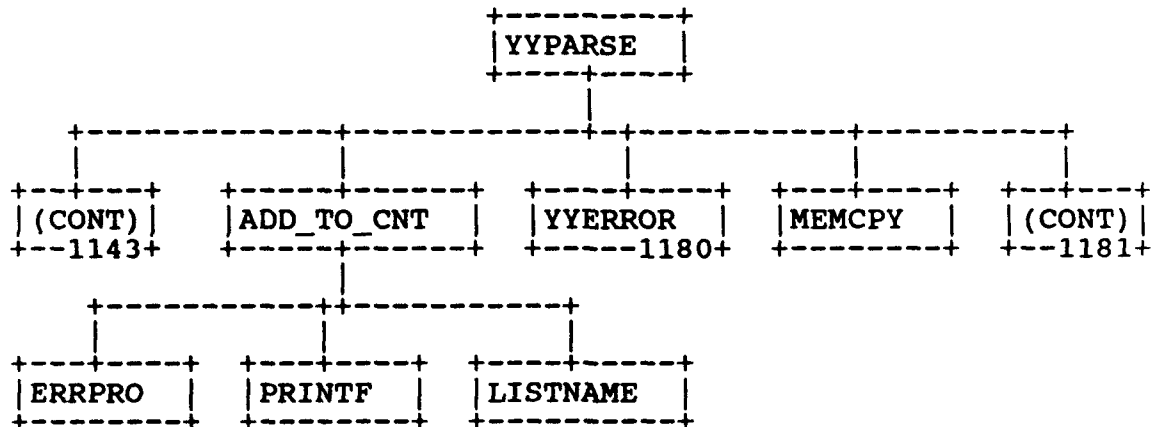
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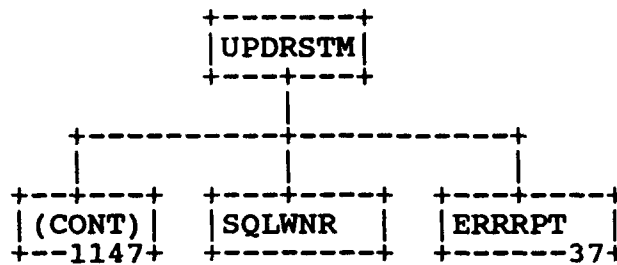
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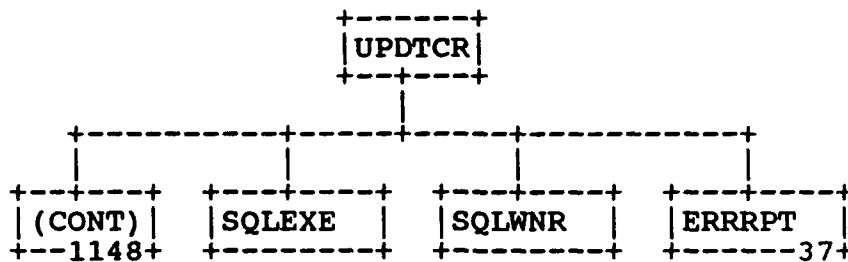
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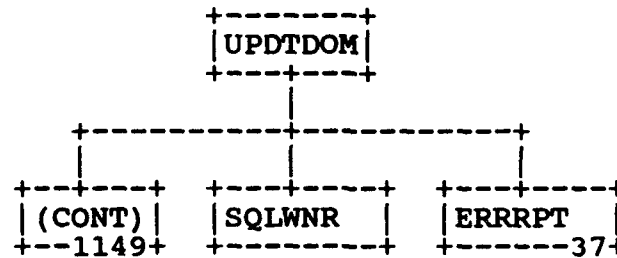
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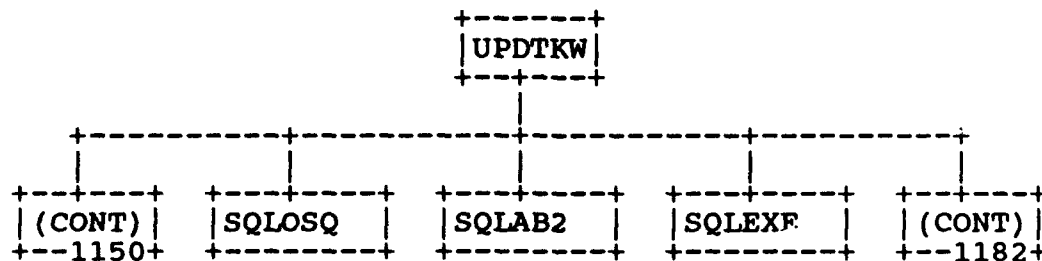
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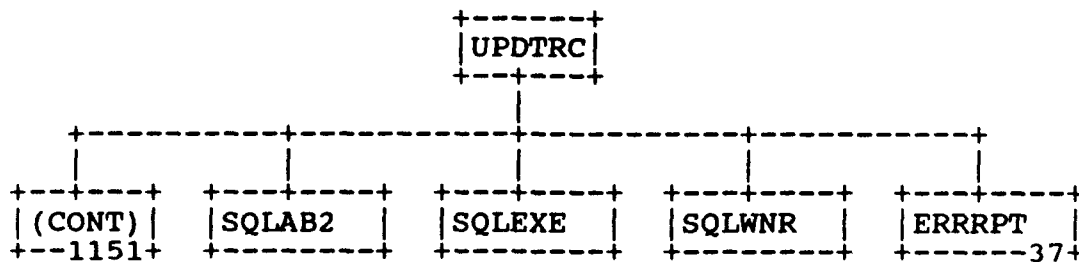
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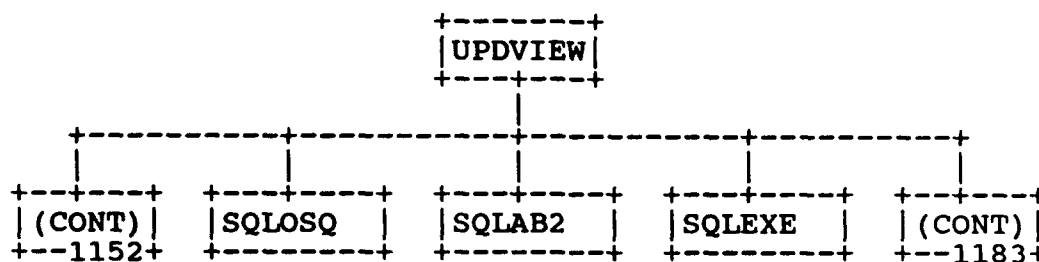
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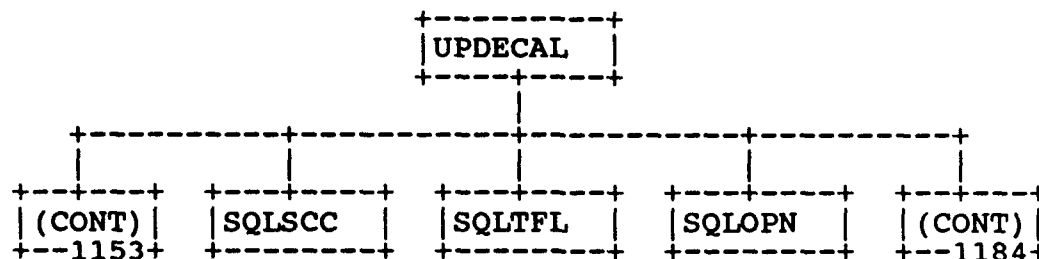
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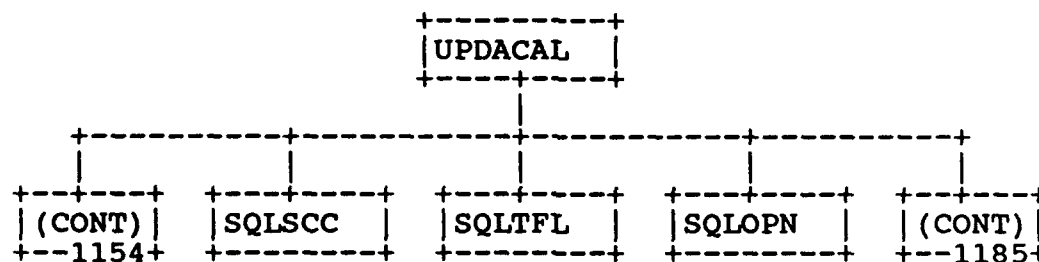
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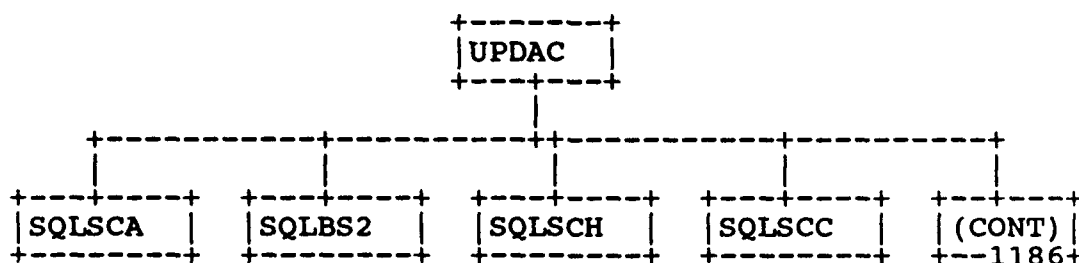
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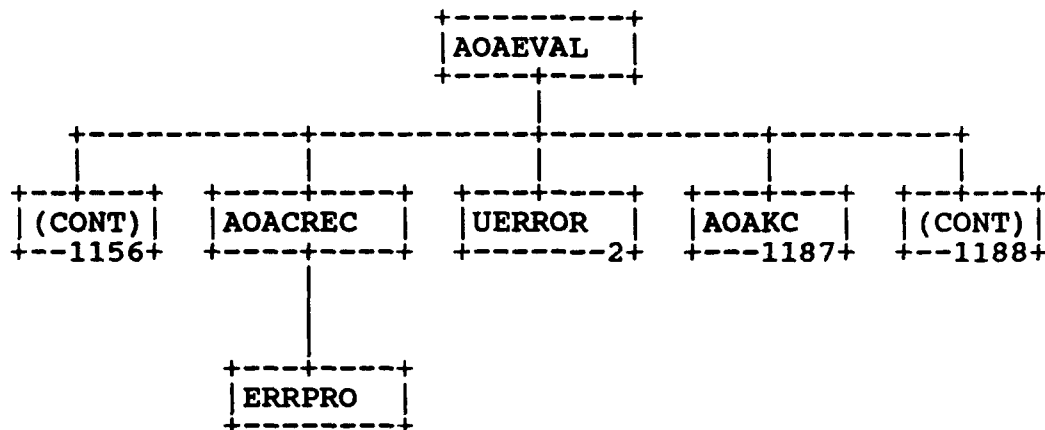
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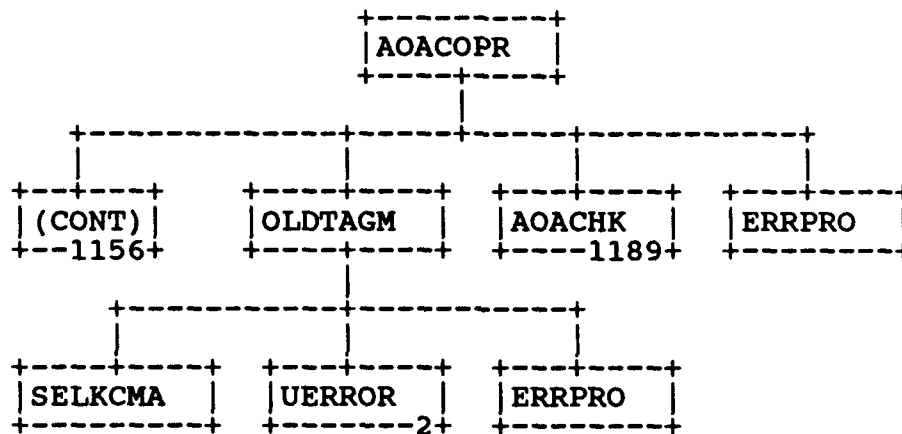
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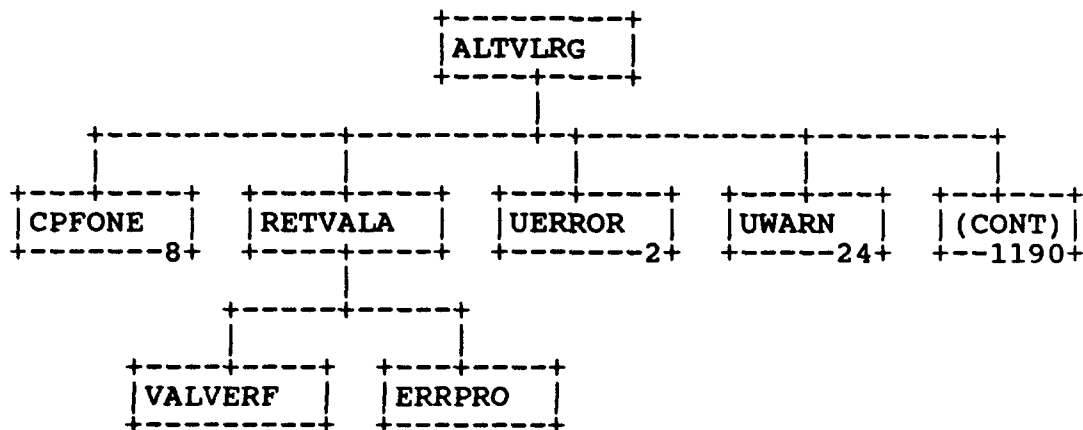
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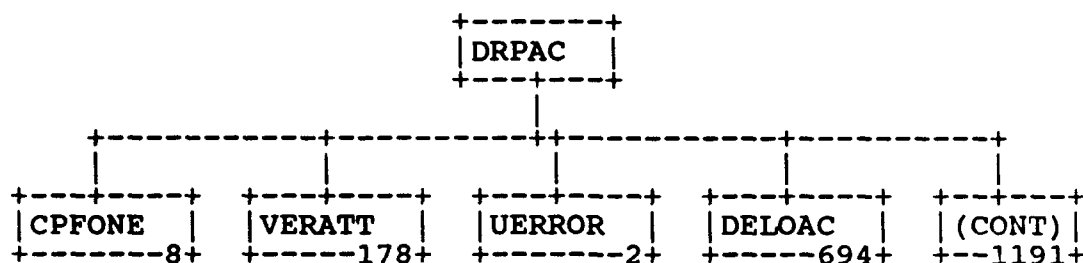
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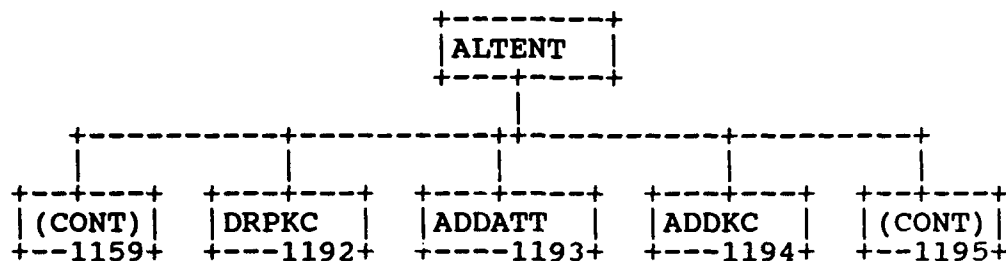
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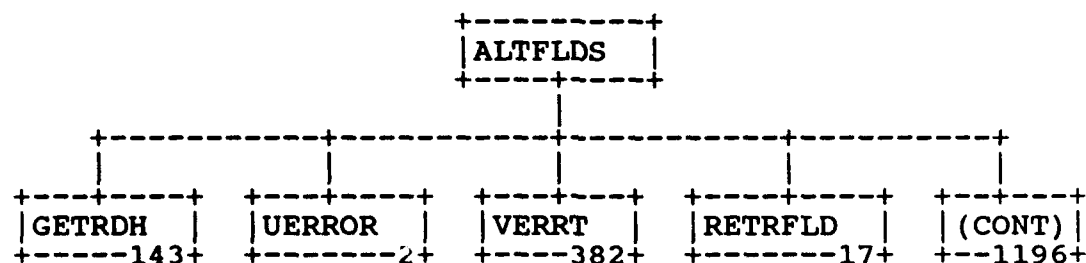
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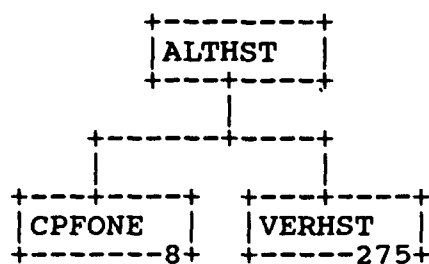
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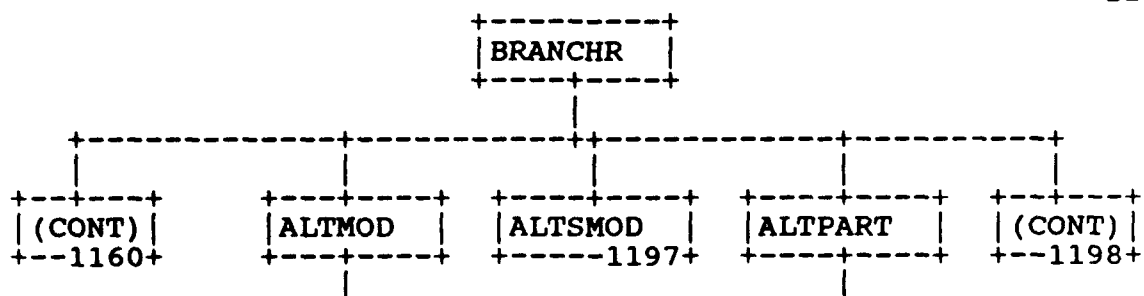
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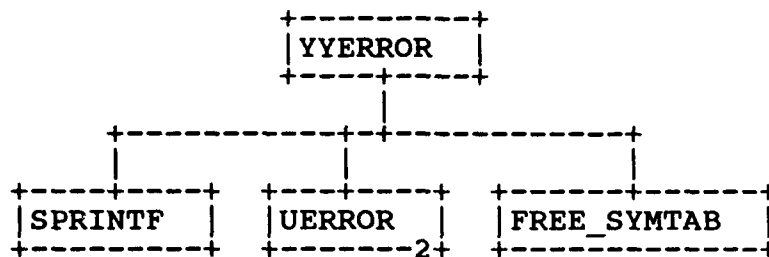
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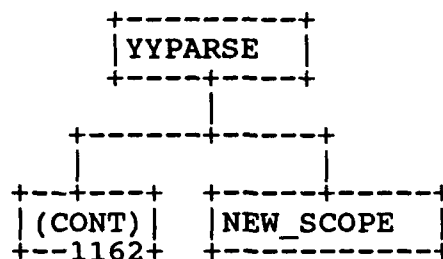
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30 September 1990

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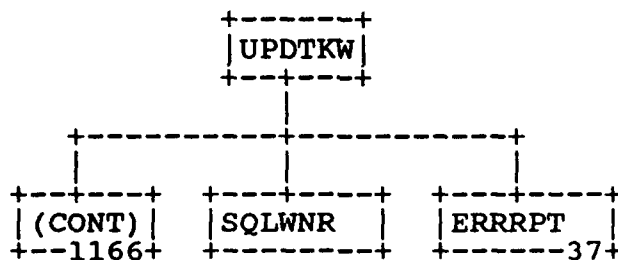
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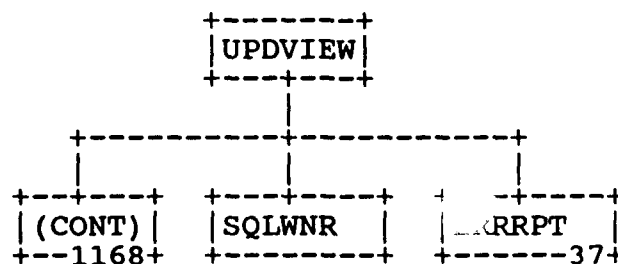
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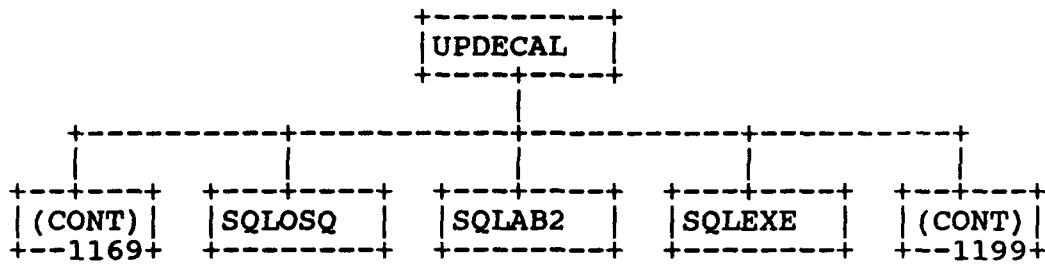
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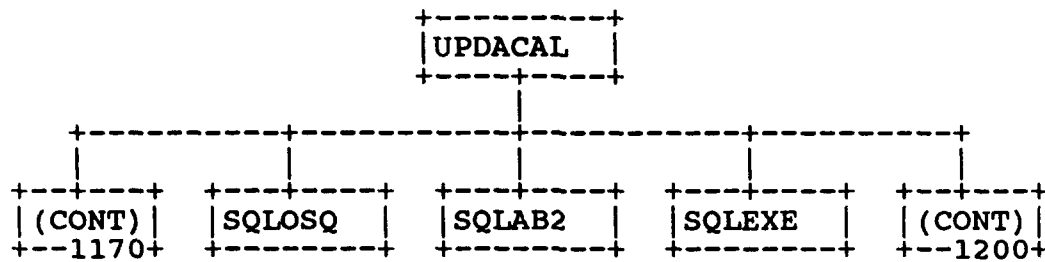
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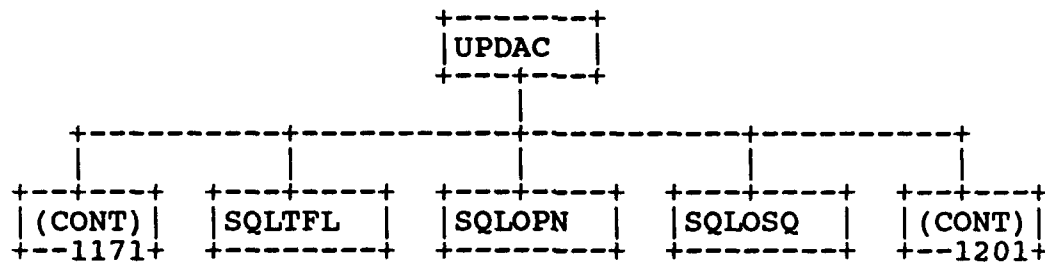
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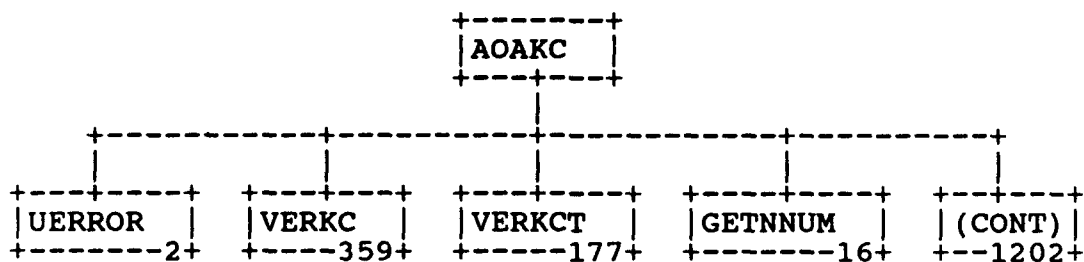
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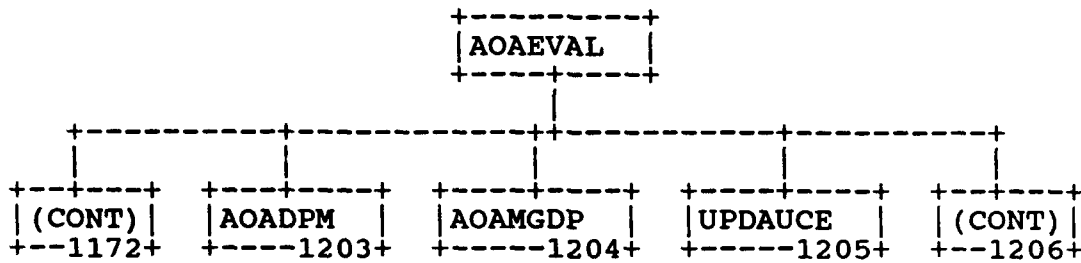
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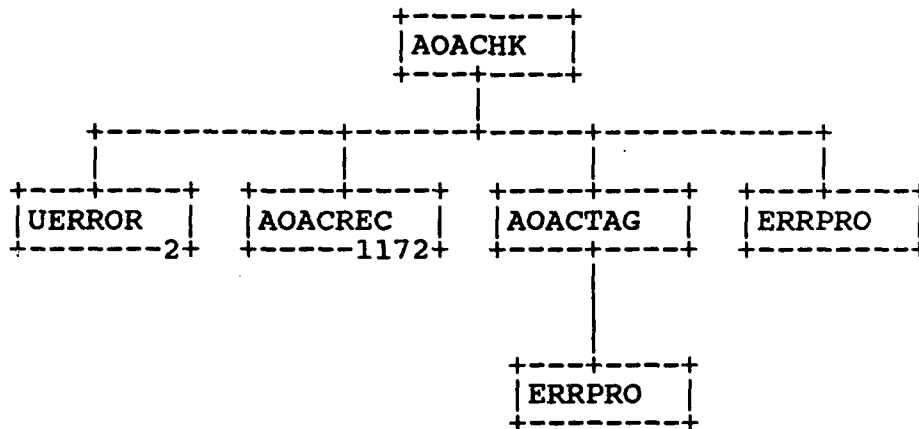
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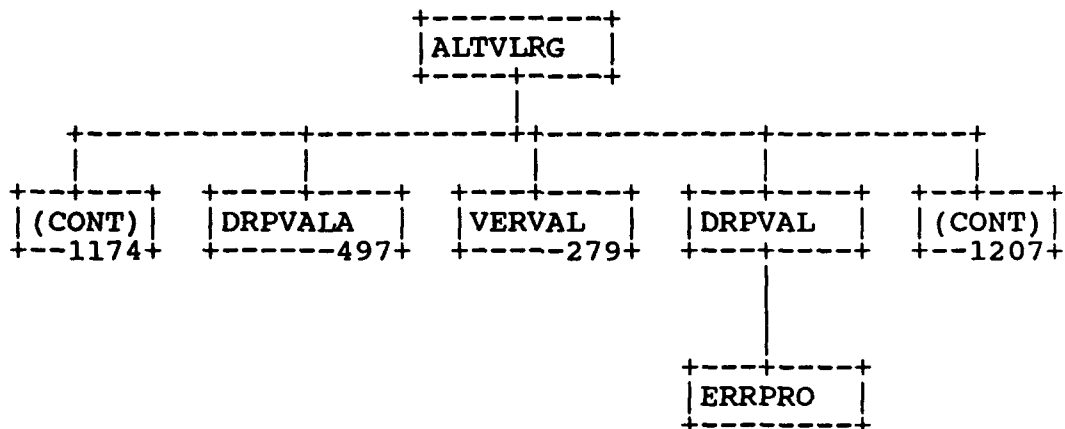
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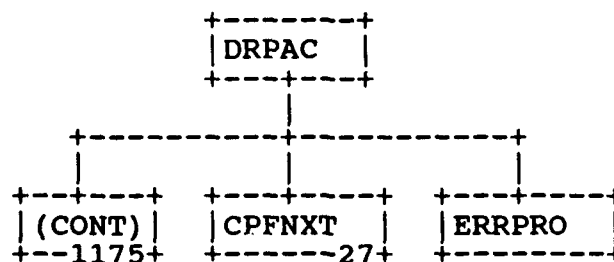
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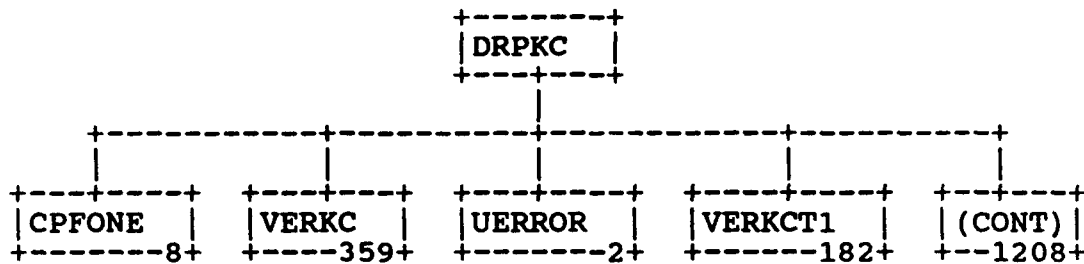
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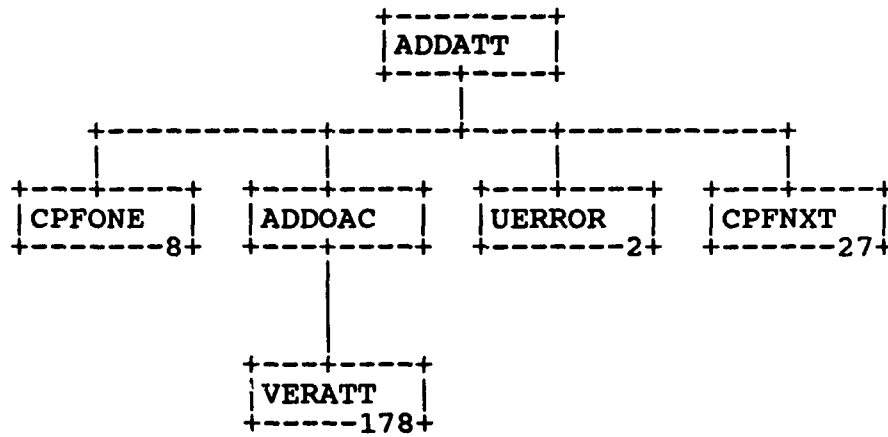
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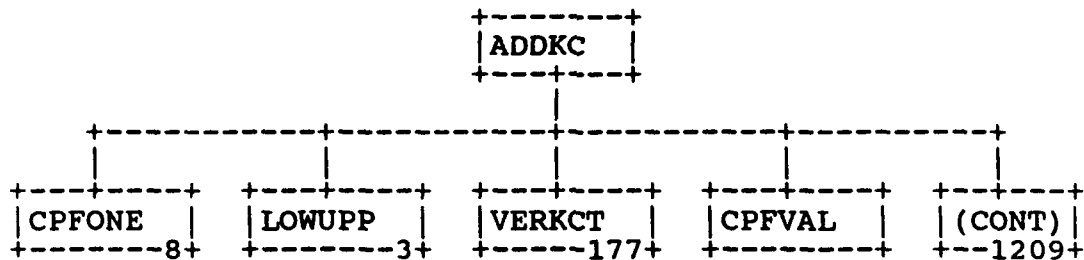
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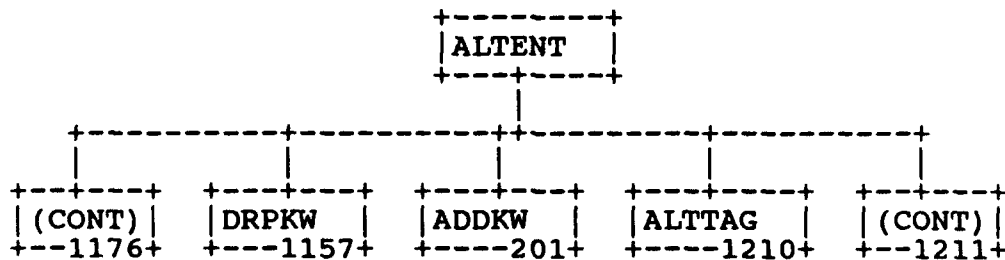
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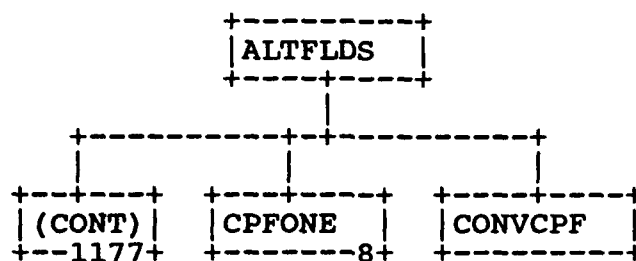
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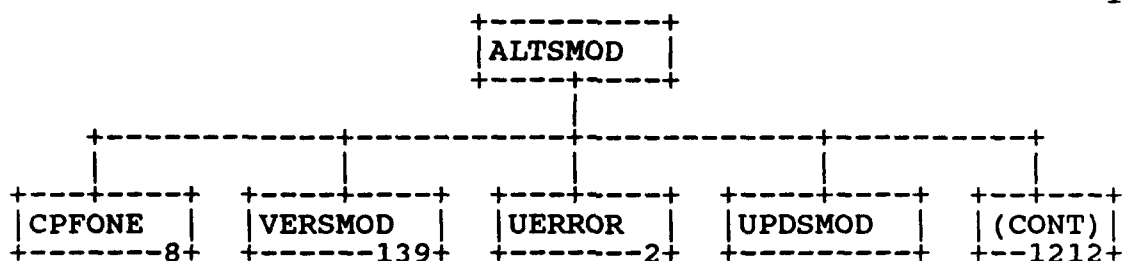
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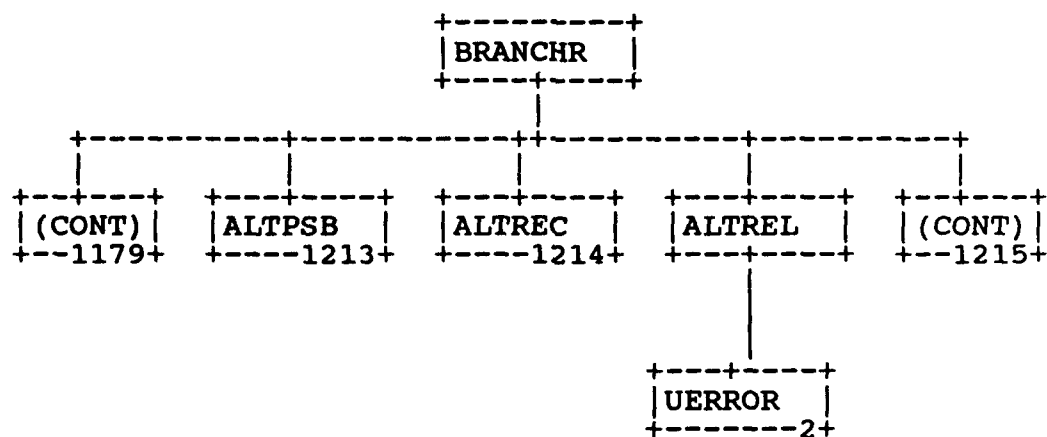
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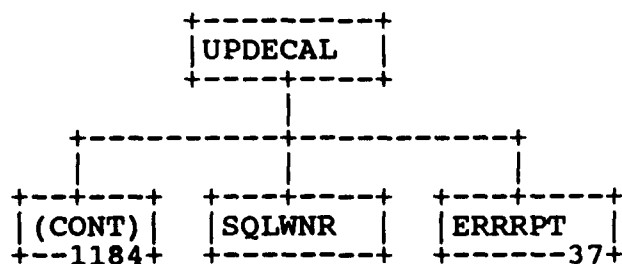
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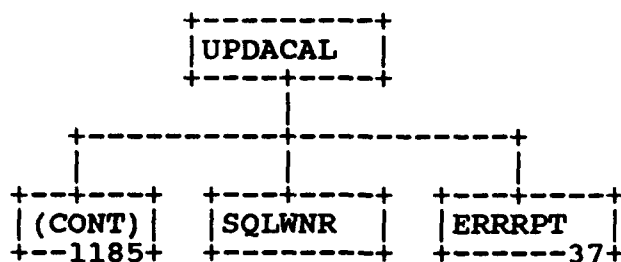
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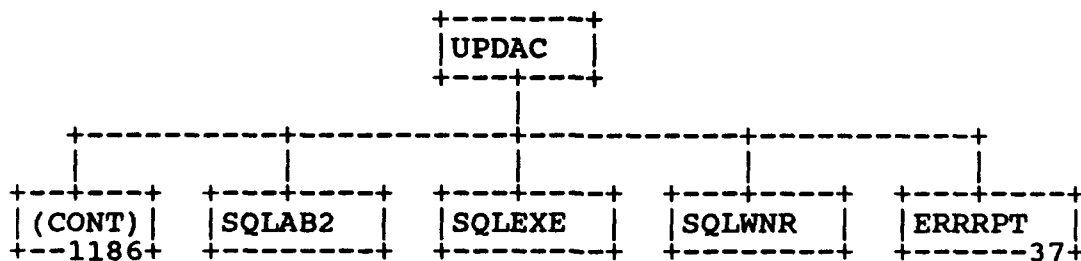
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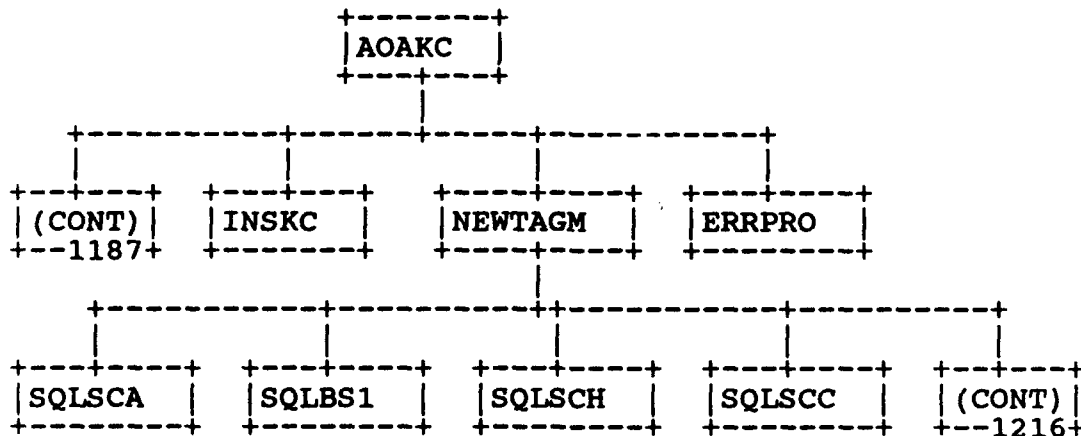
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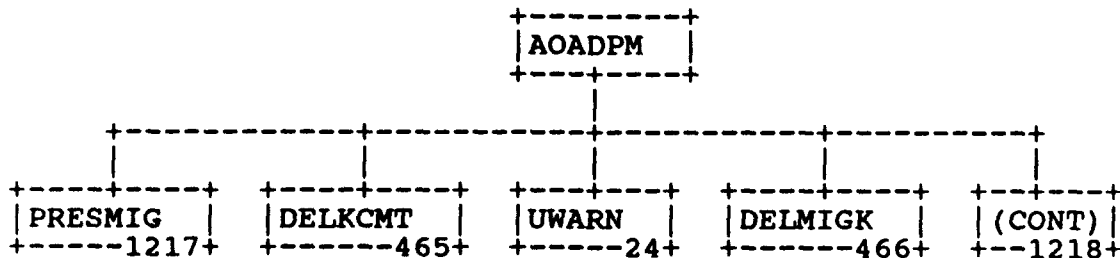
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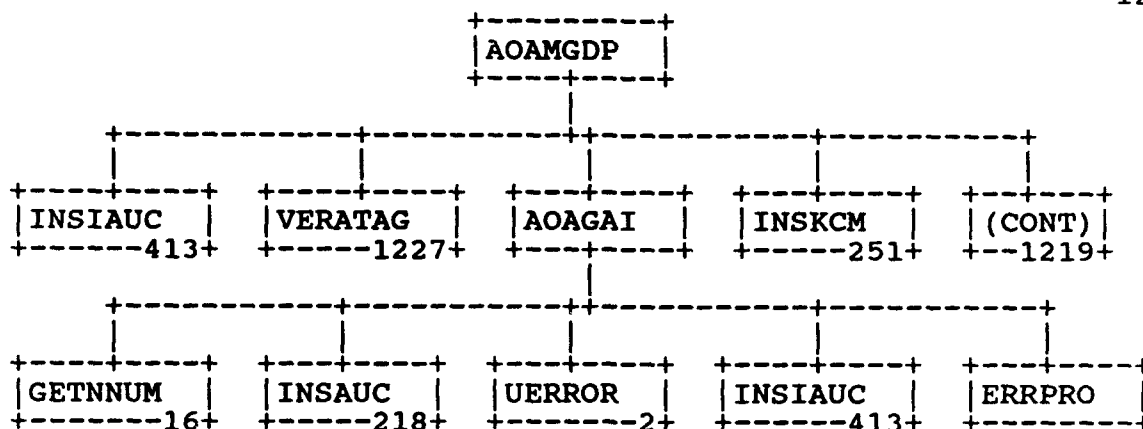
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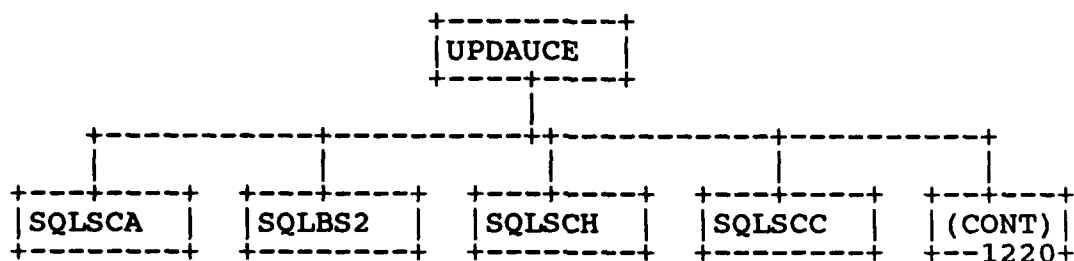
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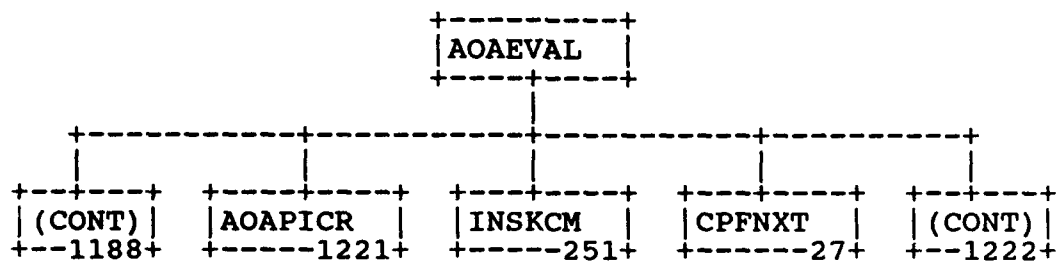
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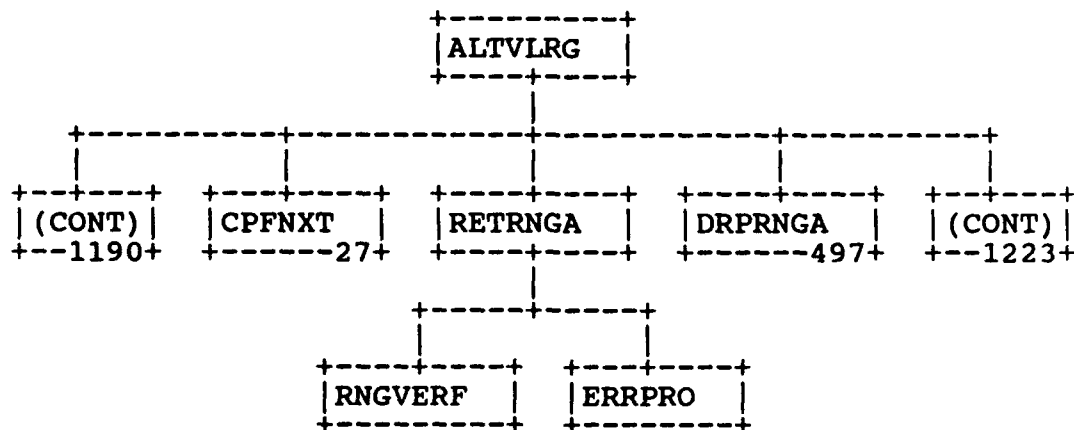
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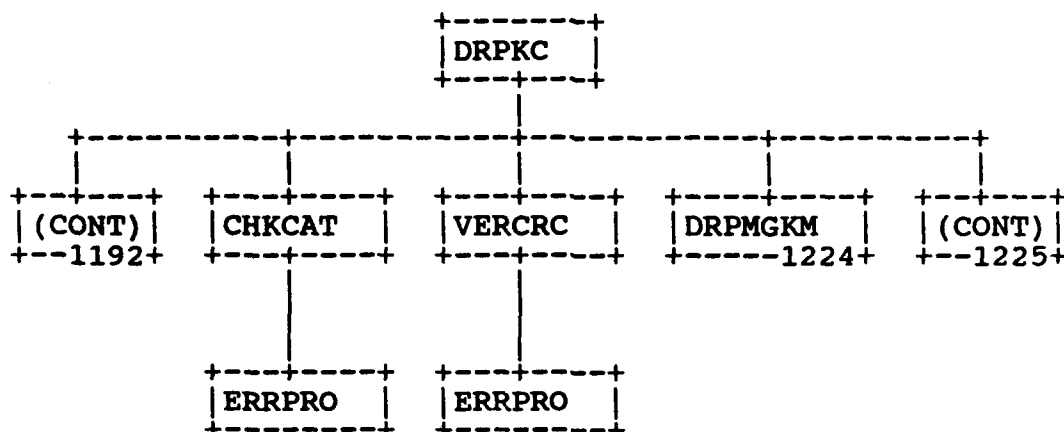
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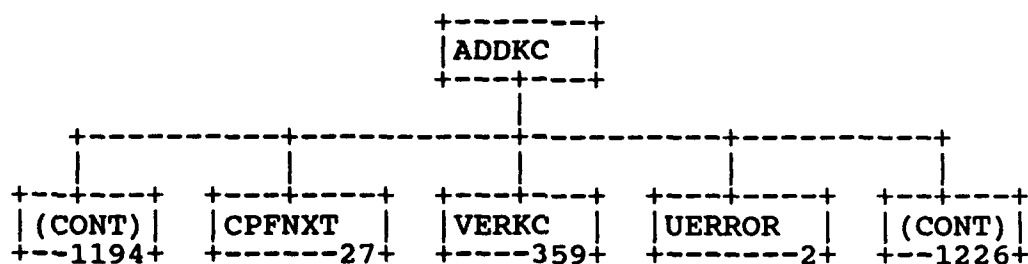
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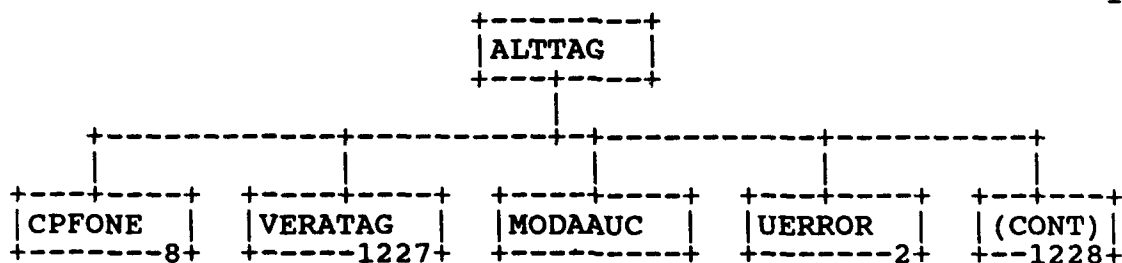
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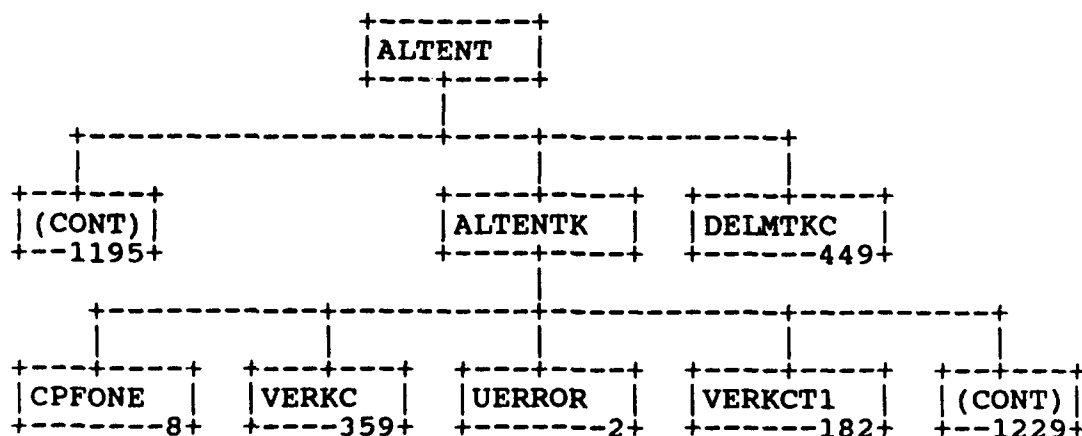
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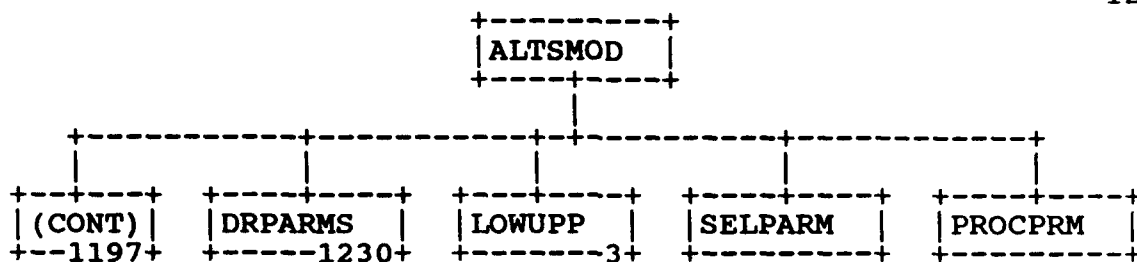
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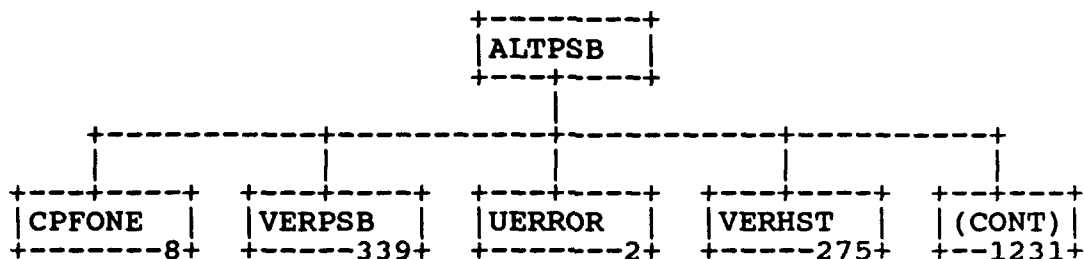
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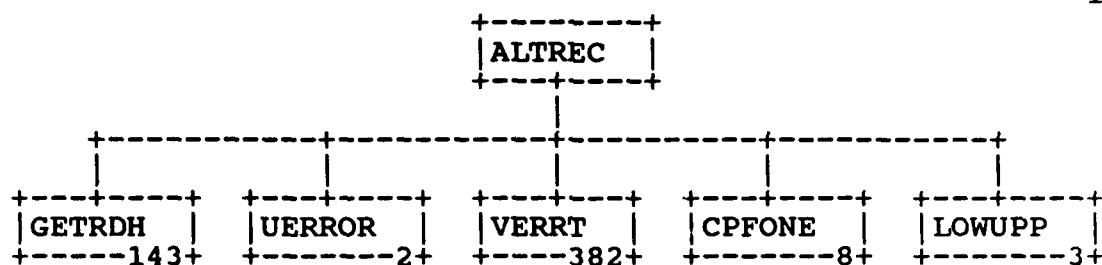
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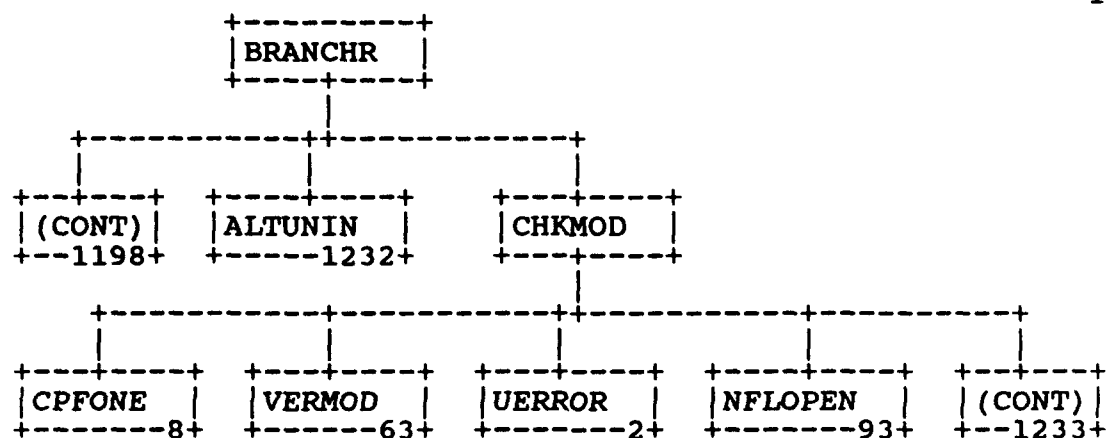
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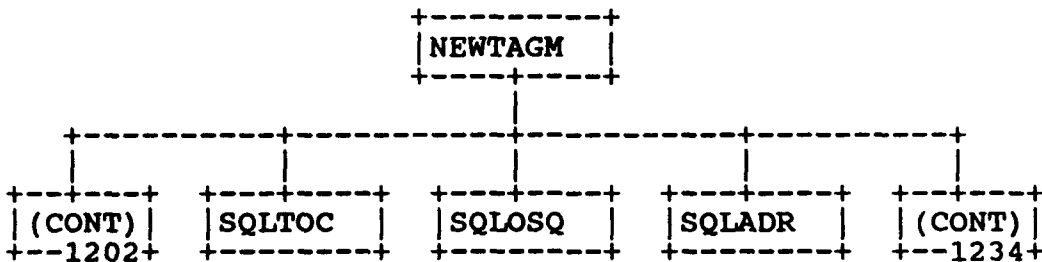
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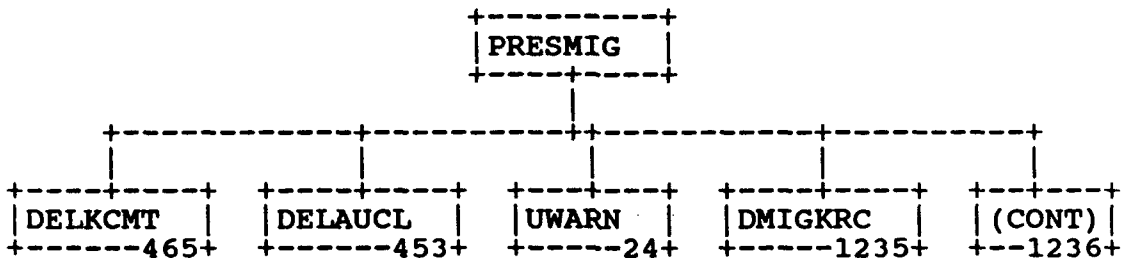
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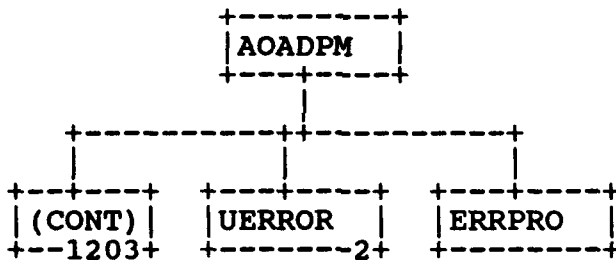
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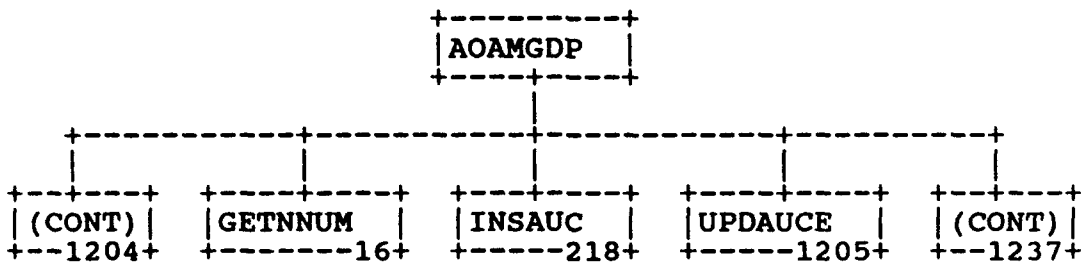
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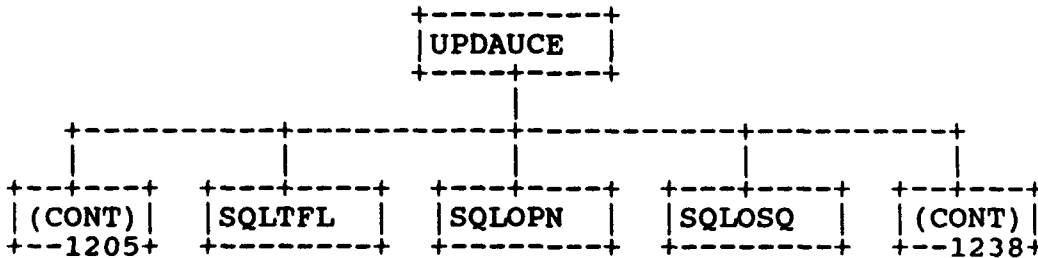
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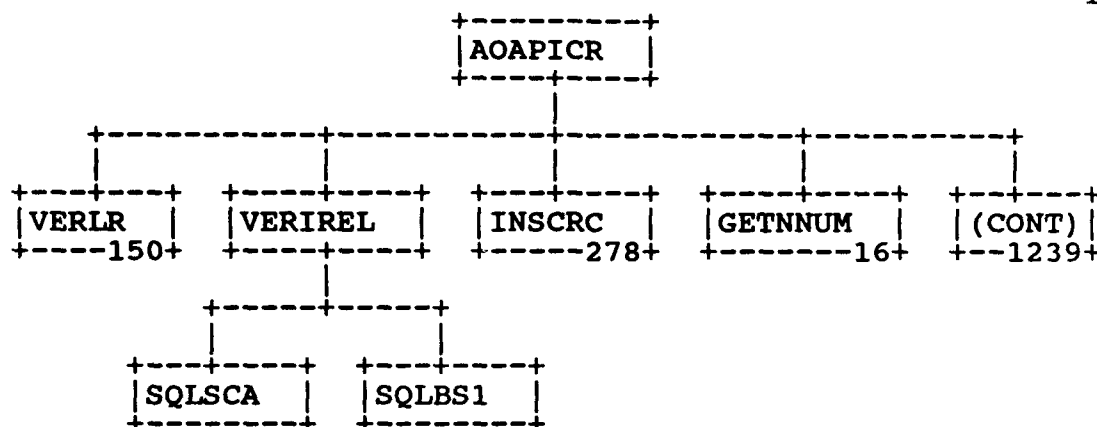
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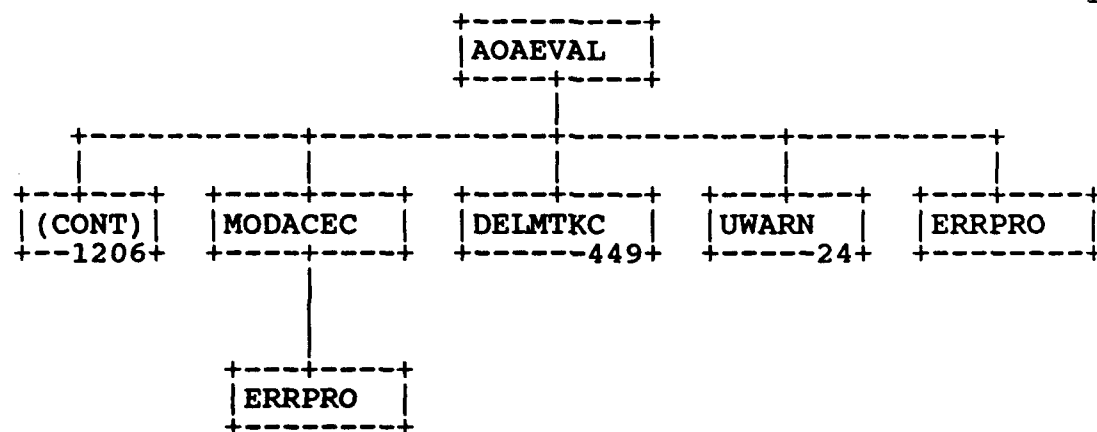
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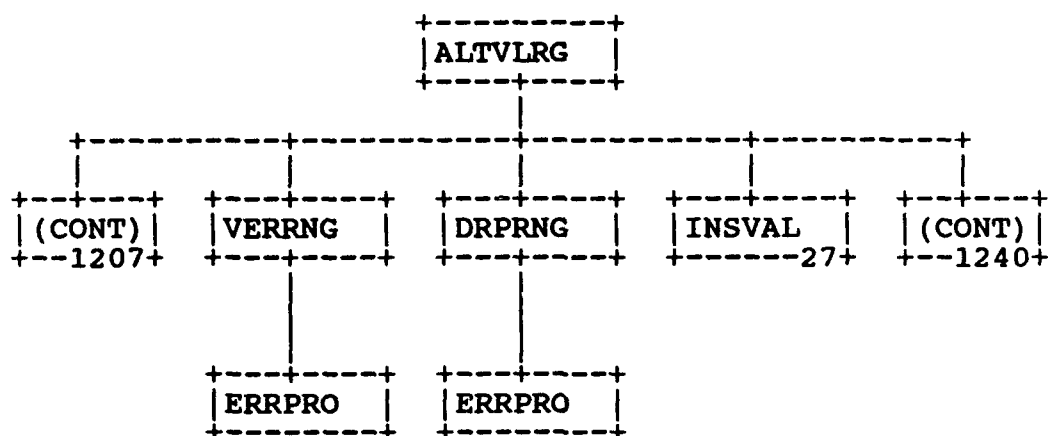
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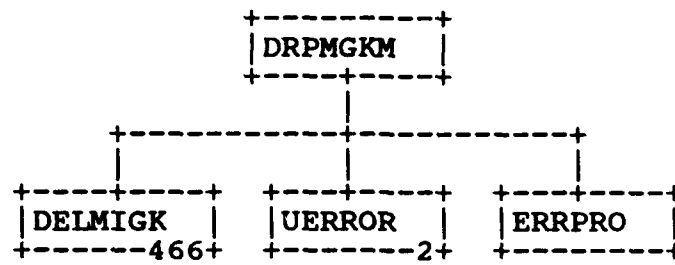
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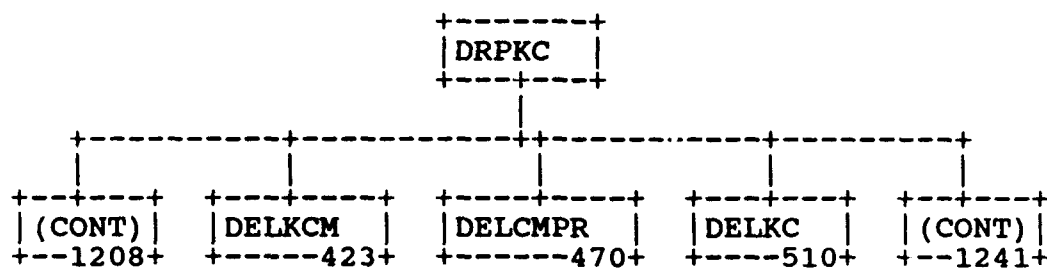
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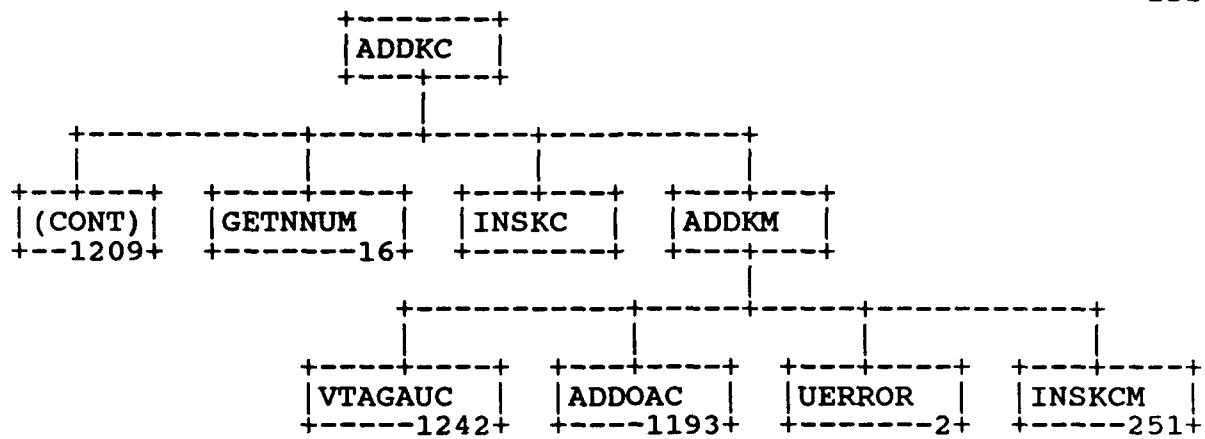
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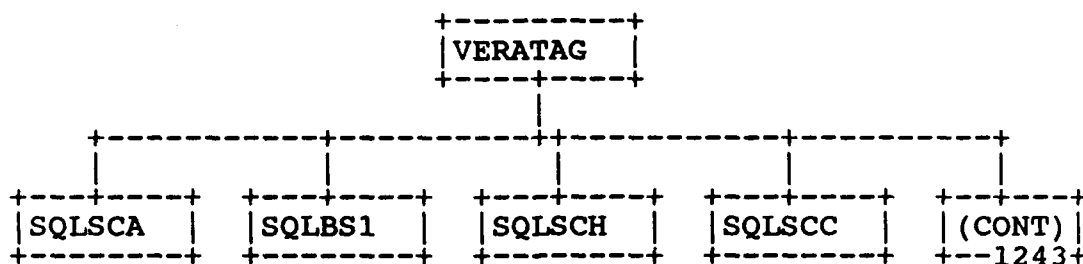
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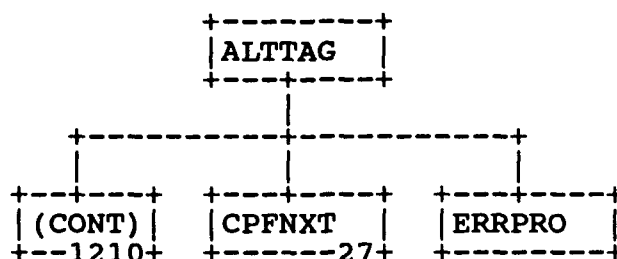
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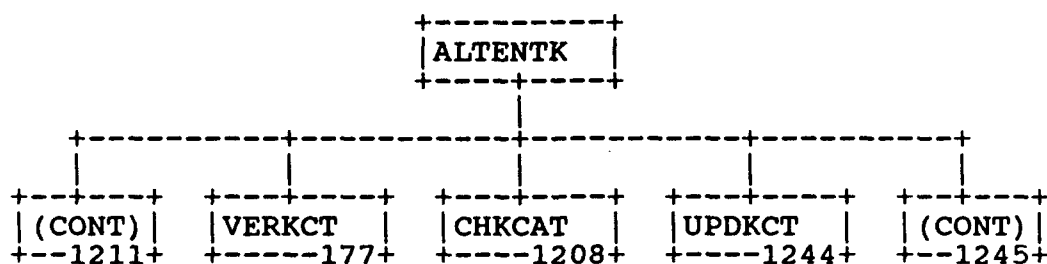
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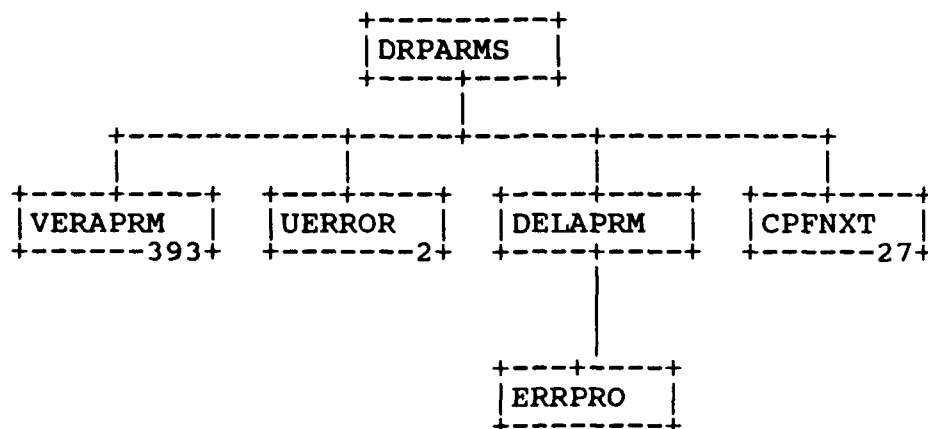
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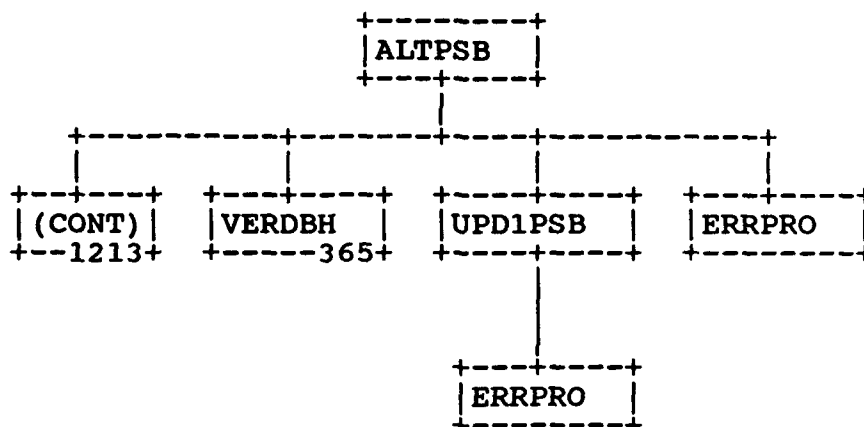
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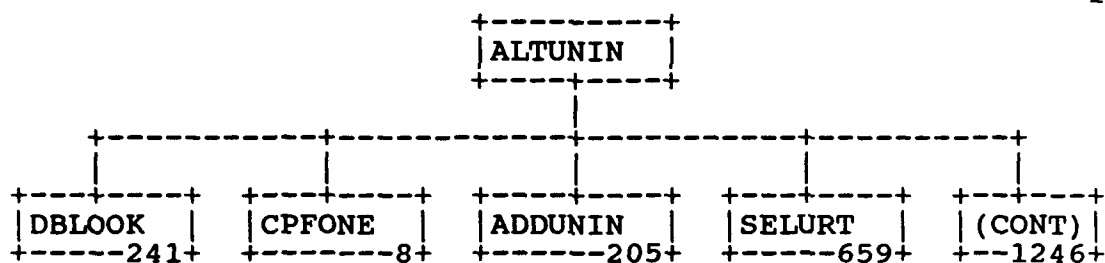
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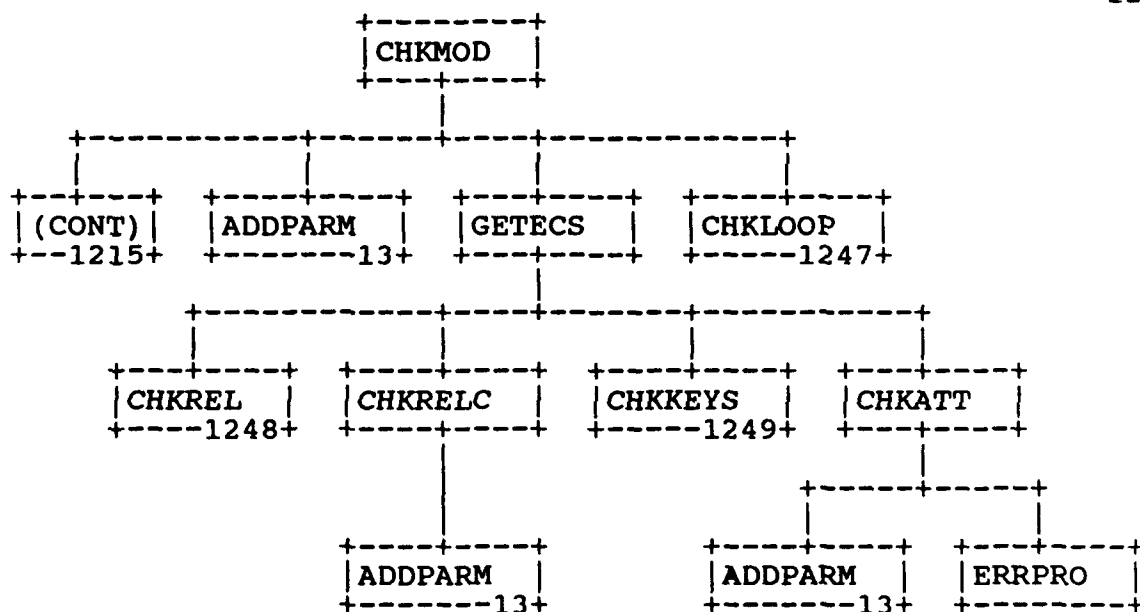
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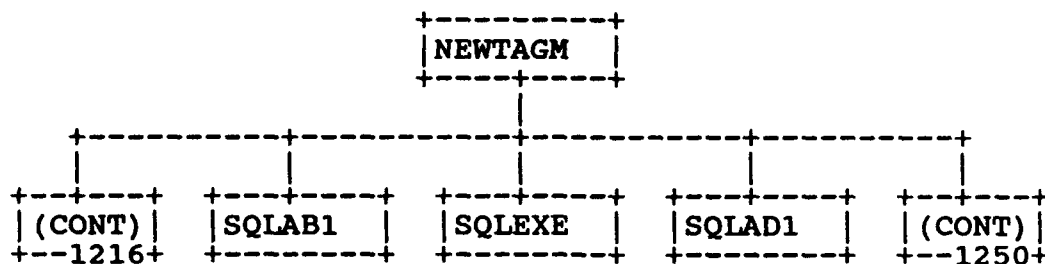
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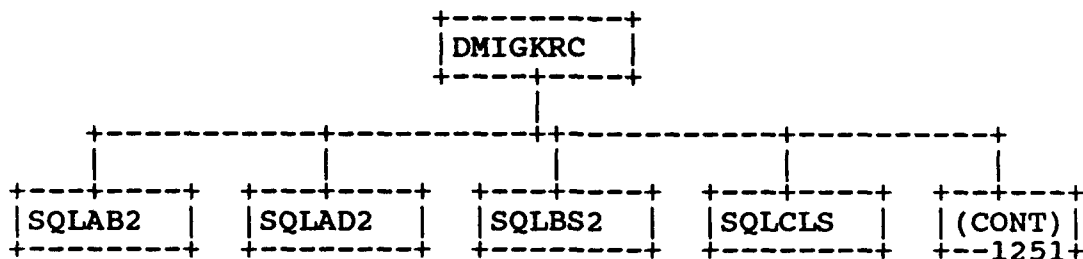
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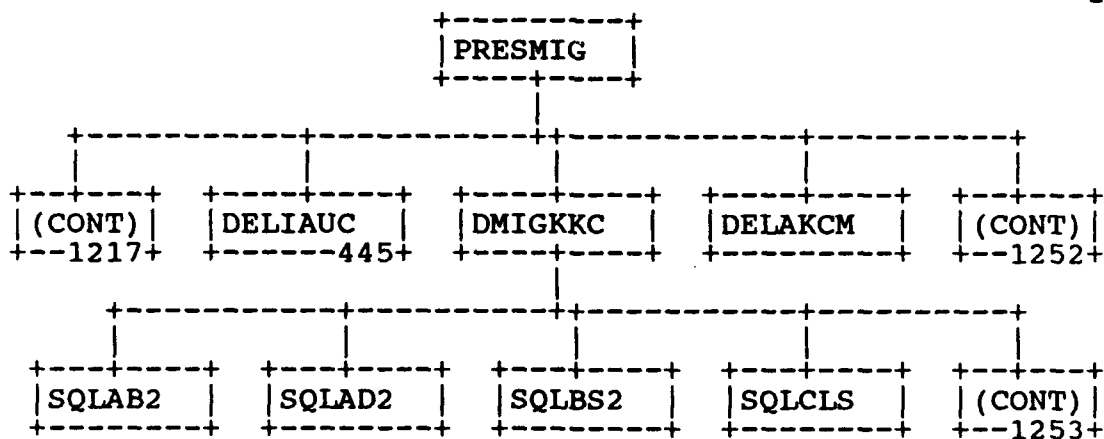
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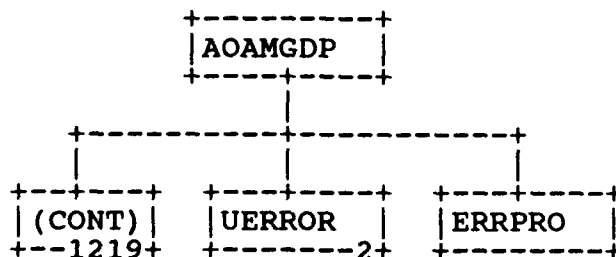
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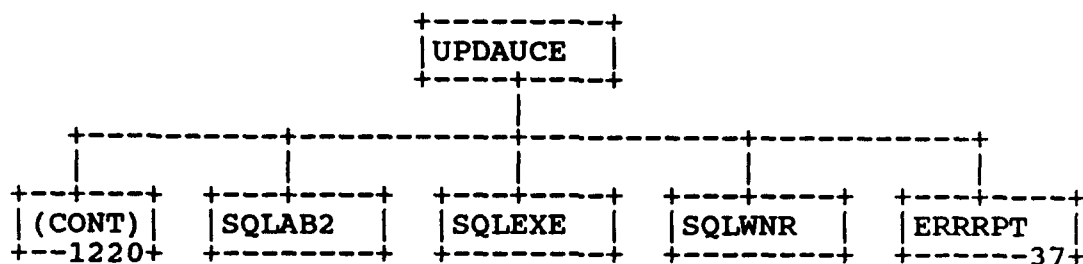
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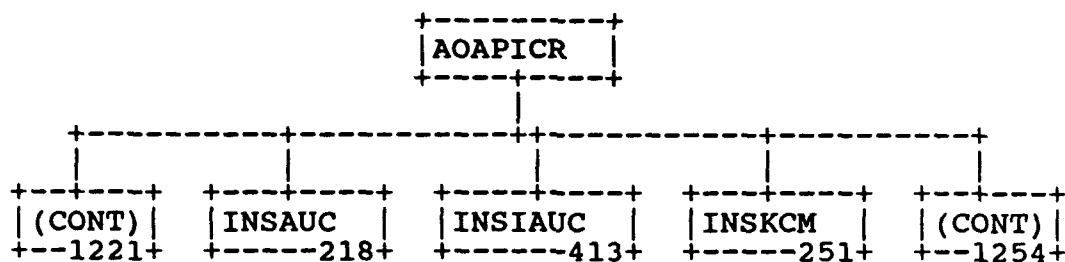
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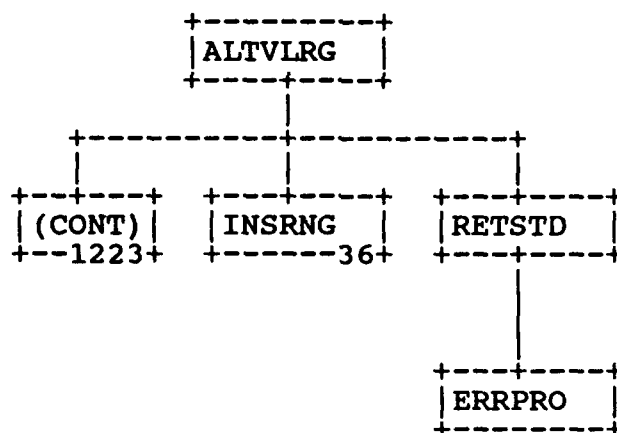
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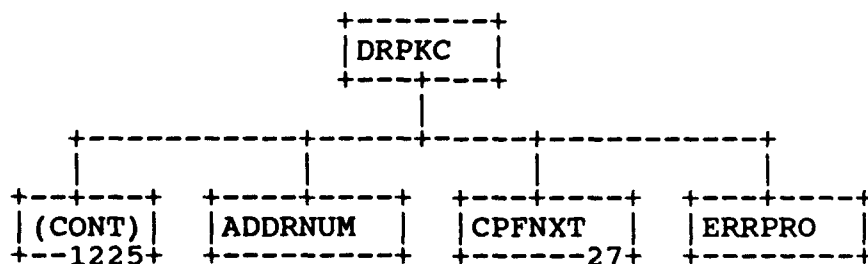
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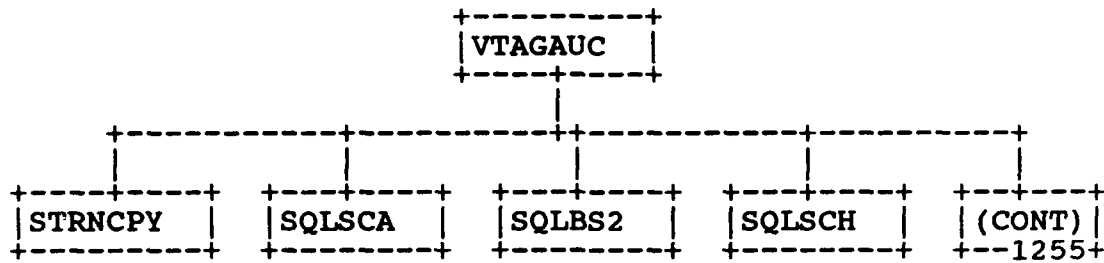
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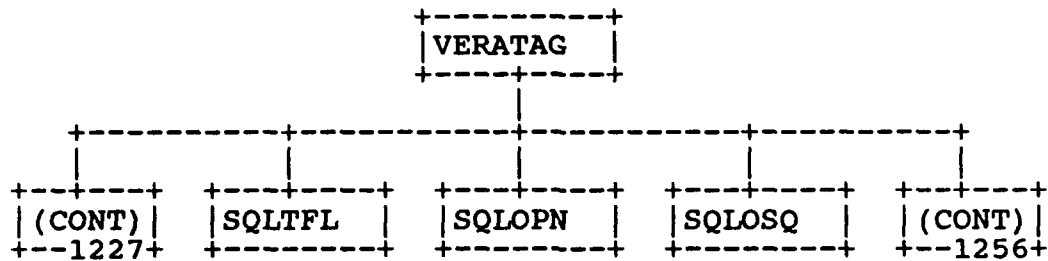
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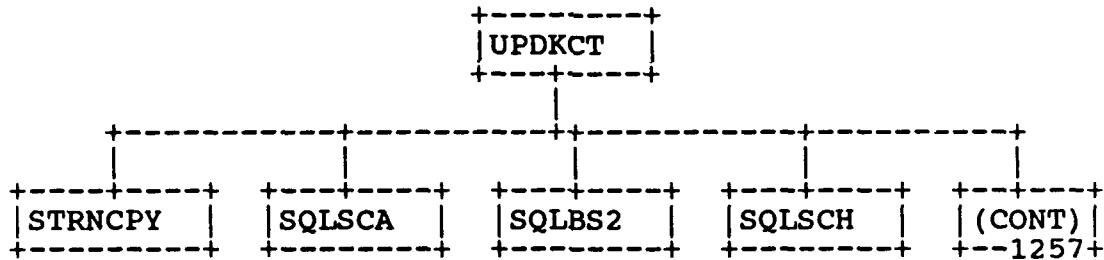
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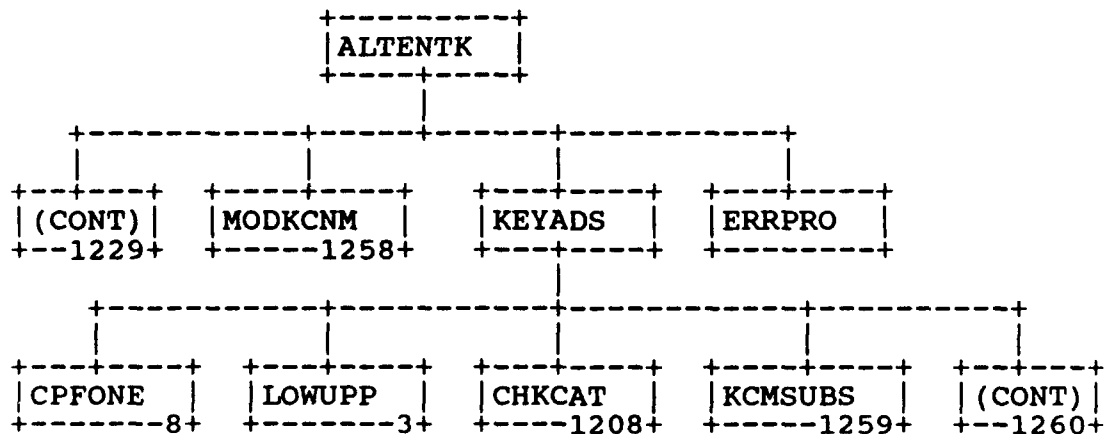
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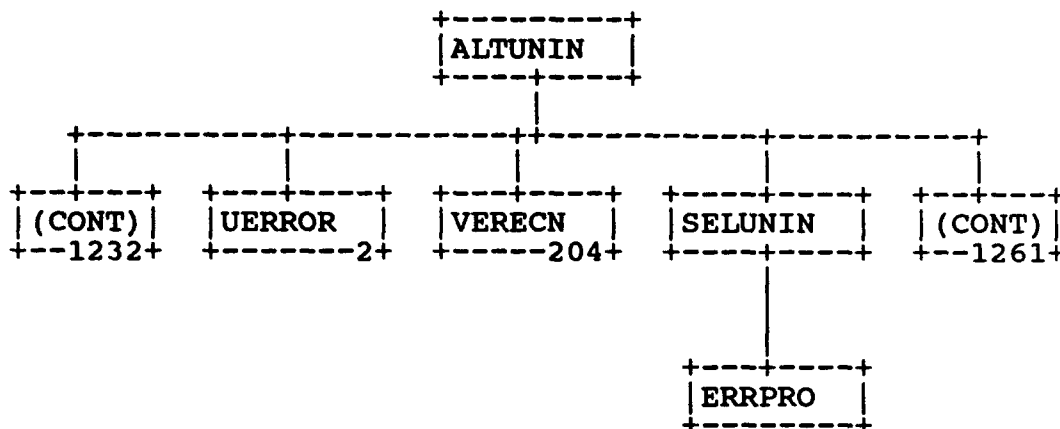
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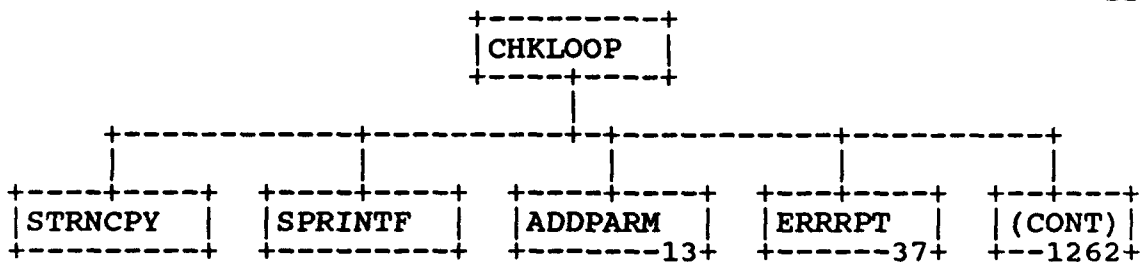
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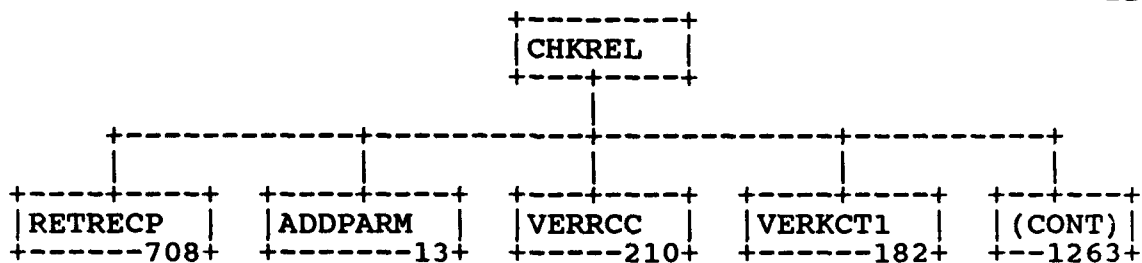
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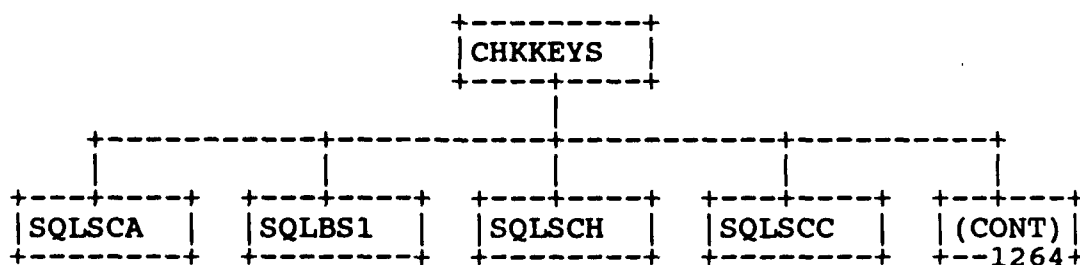
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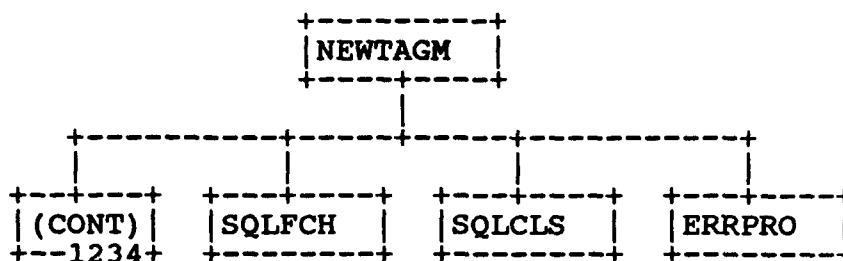
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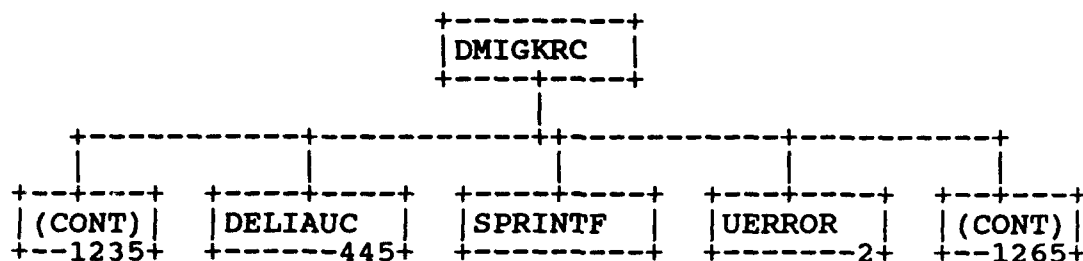
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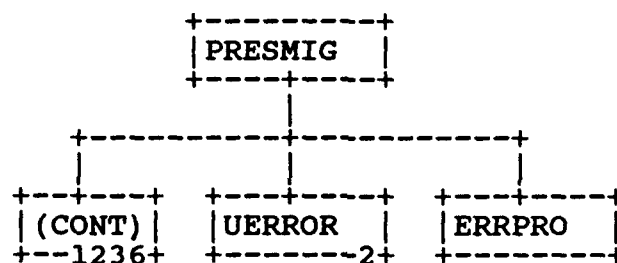
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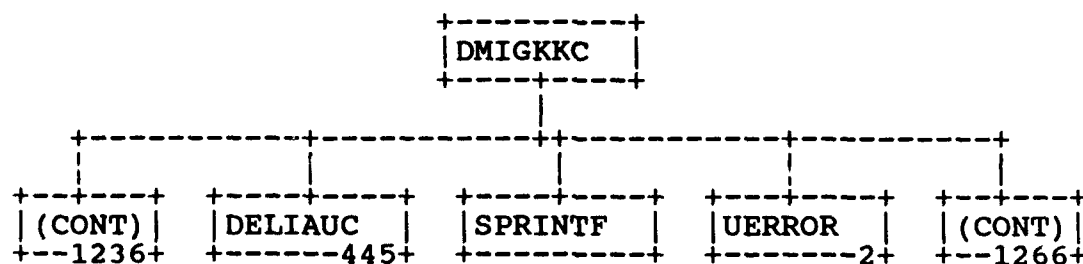
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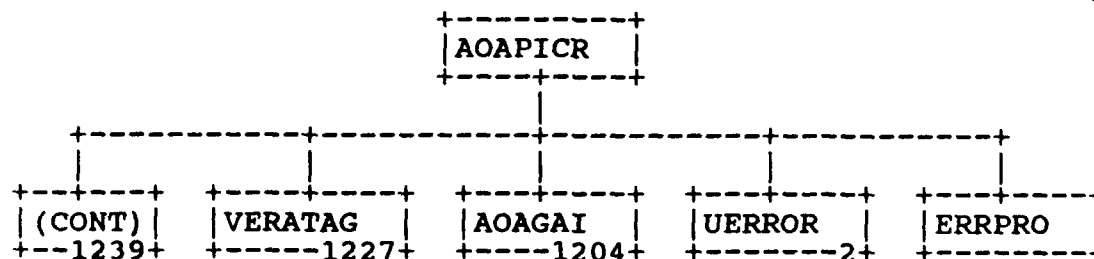
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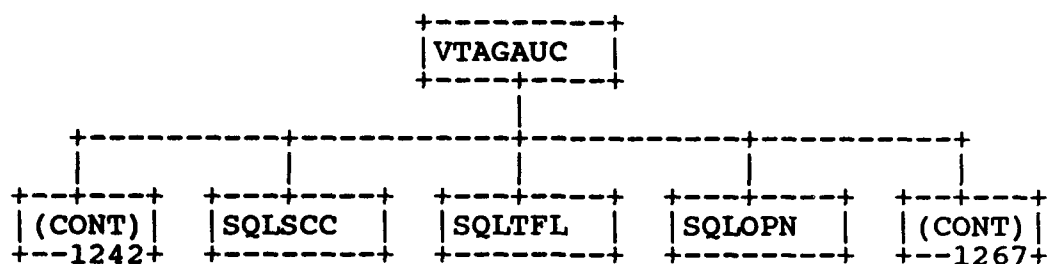
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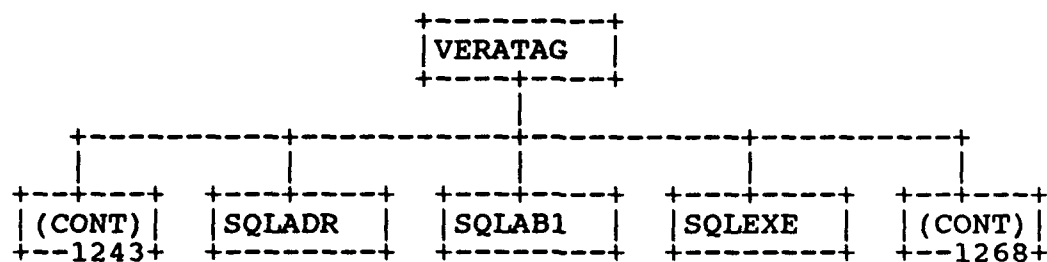
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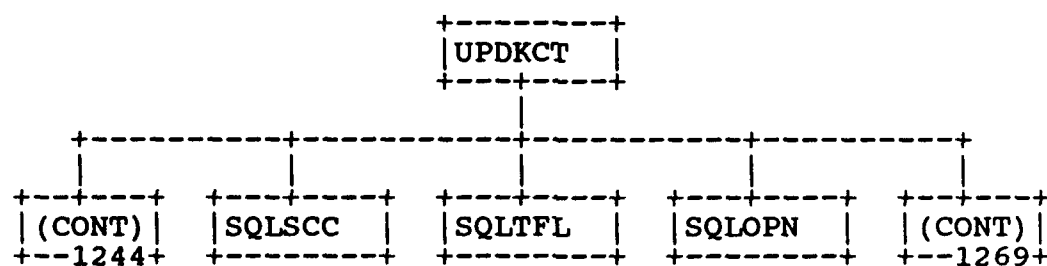
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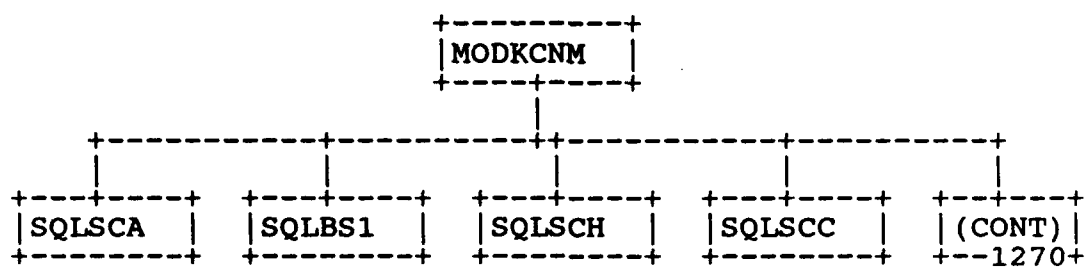
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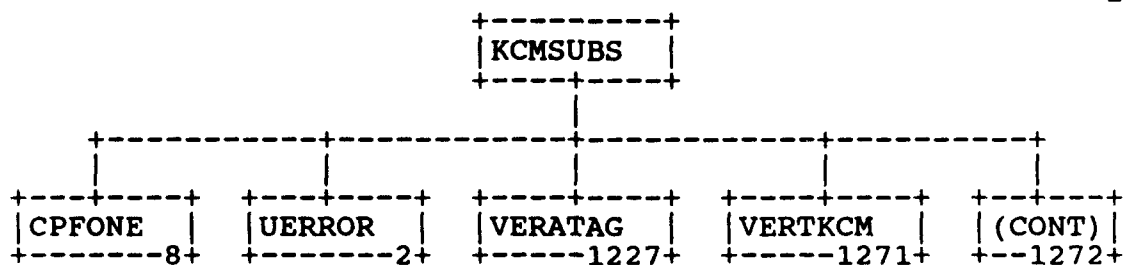
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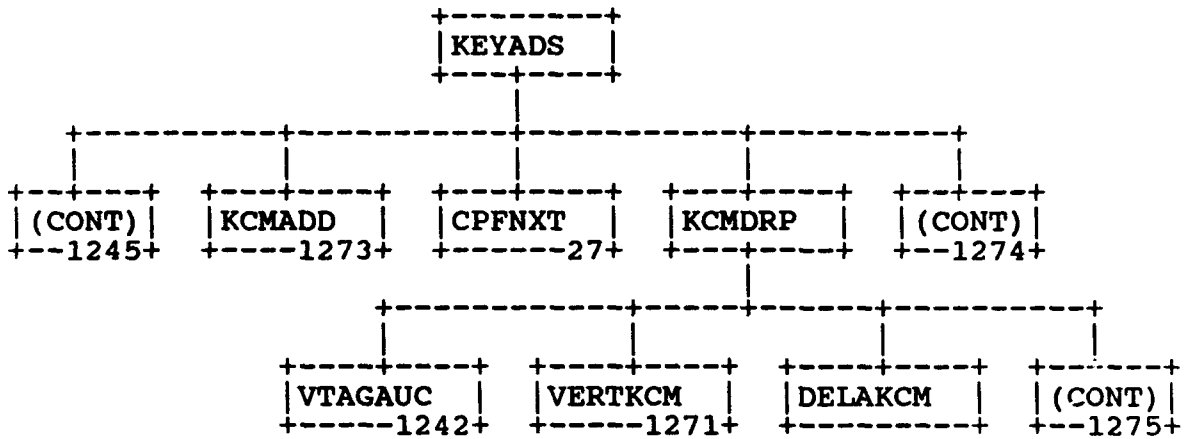
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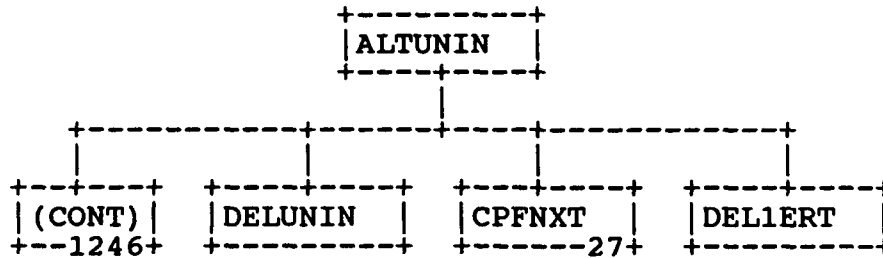
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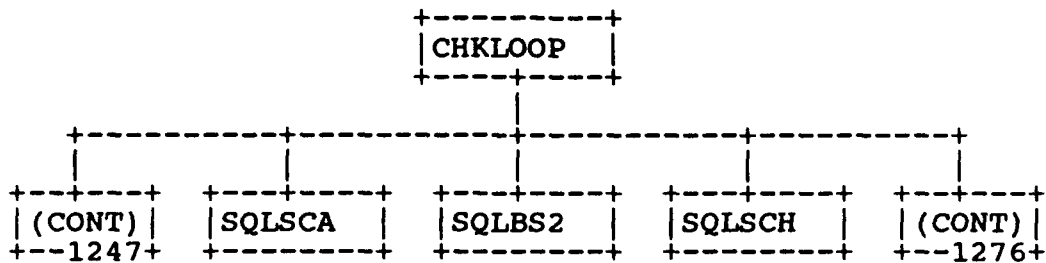
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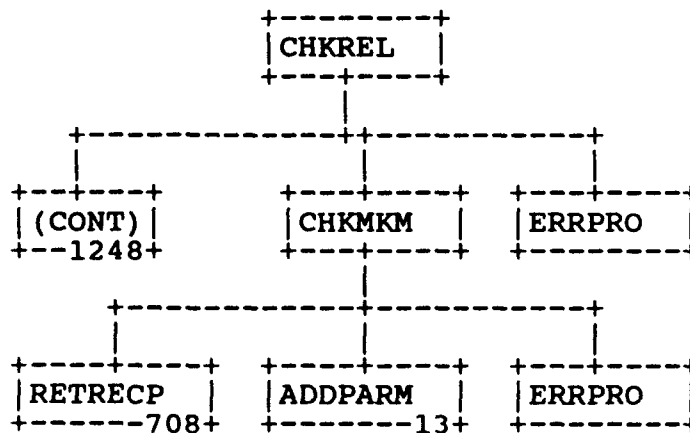
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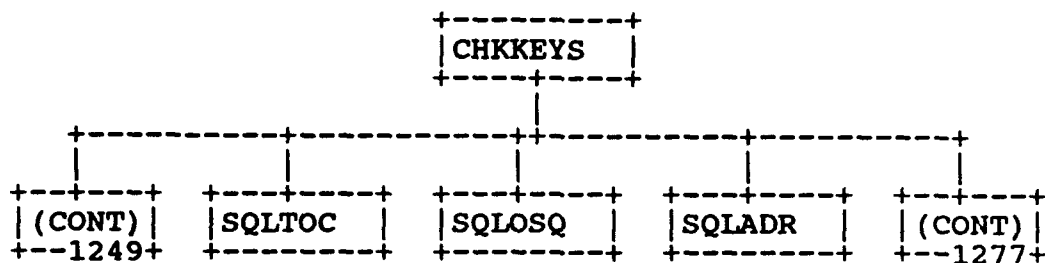
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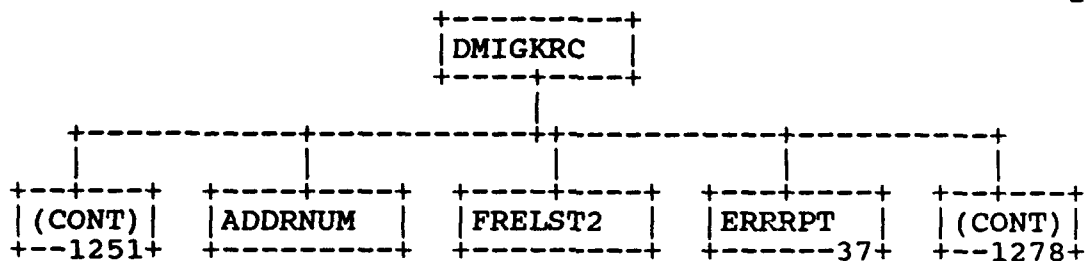
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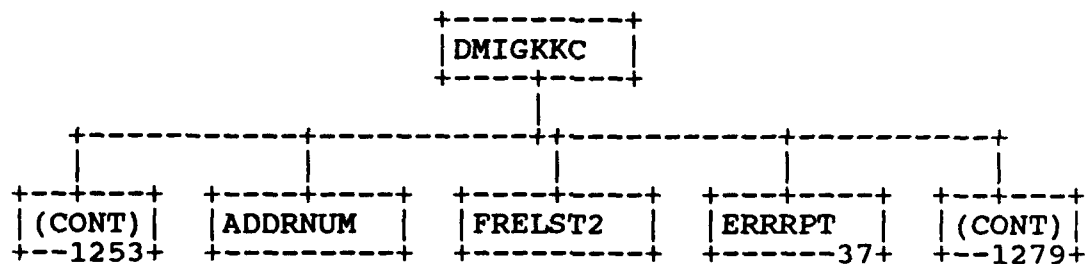
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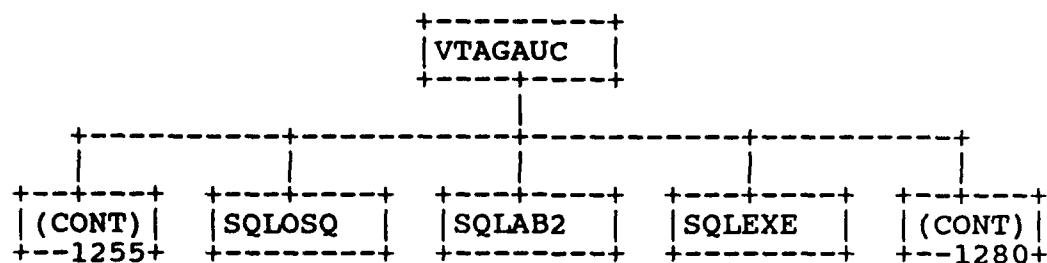
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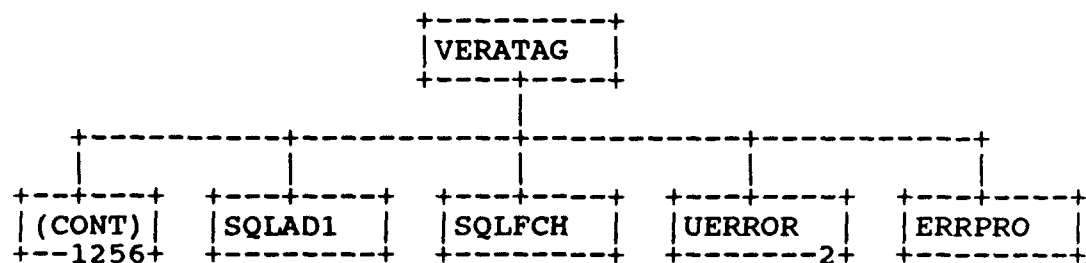
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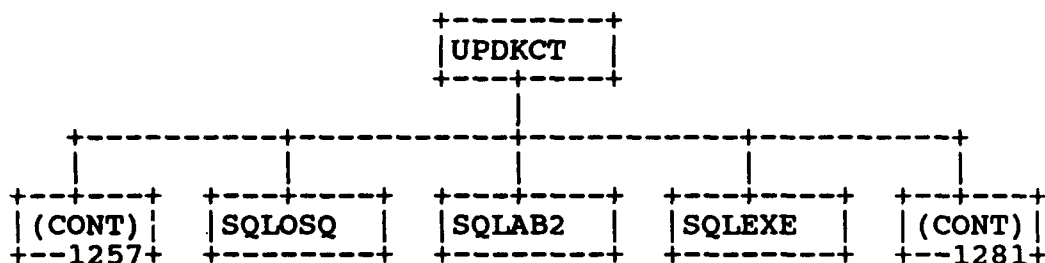
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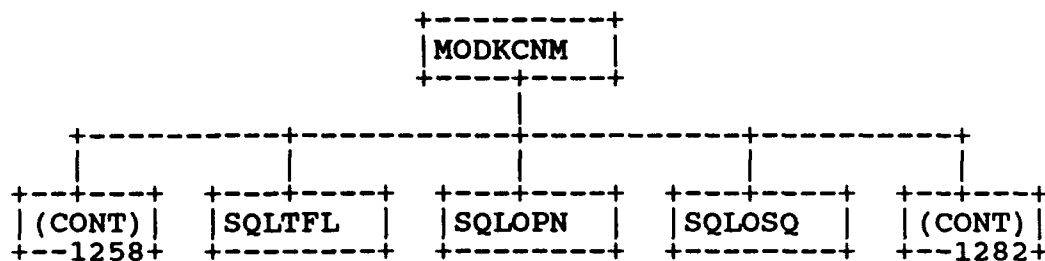
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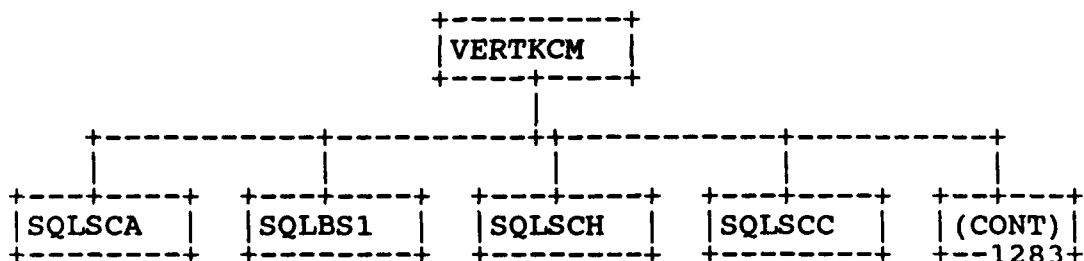
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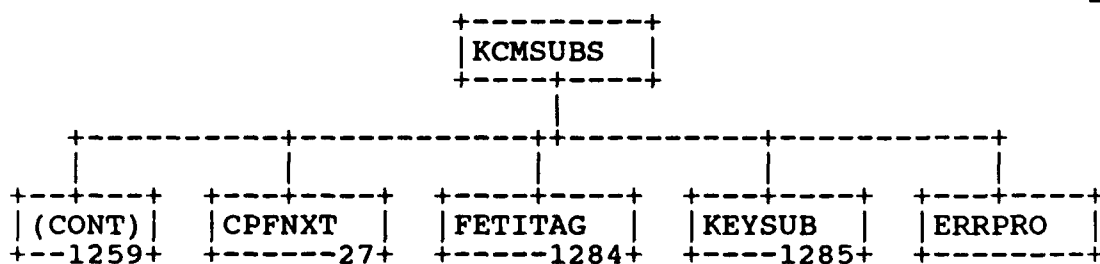
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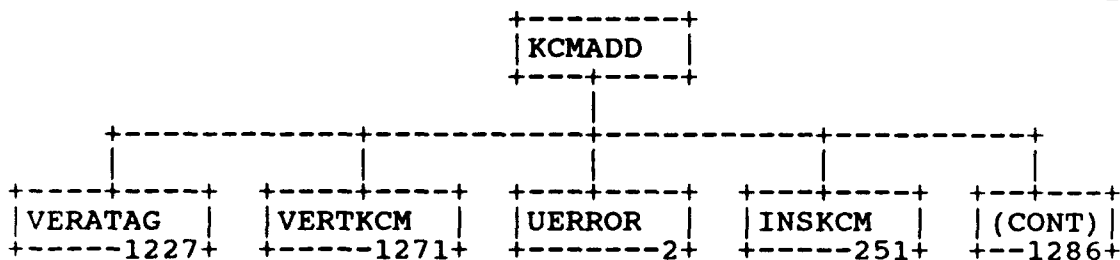
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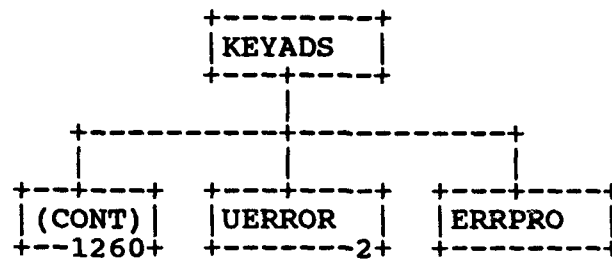
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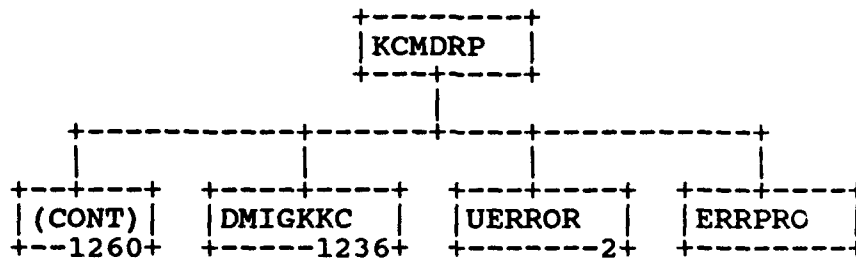
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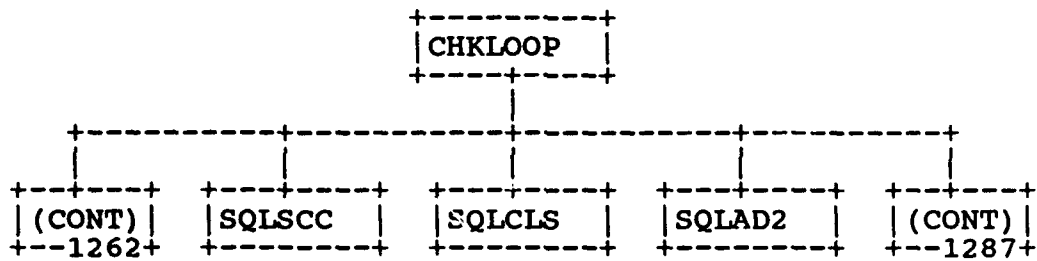
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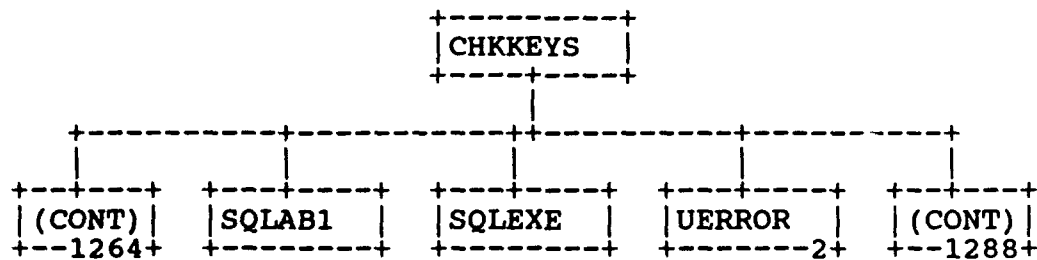
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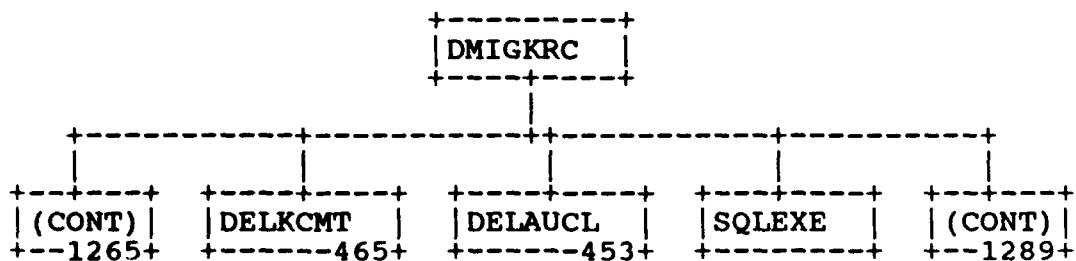
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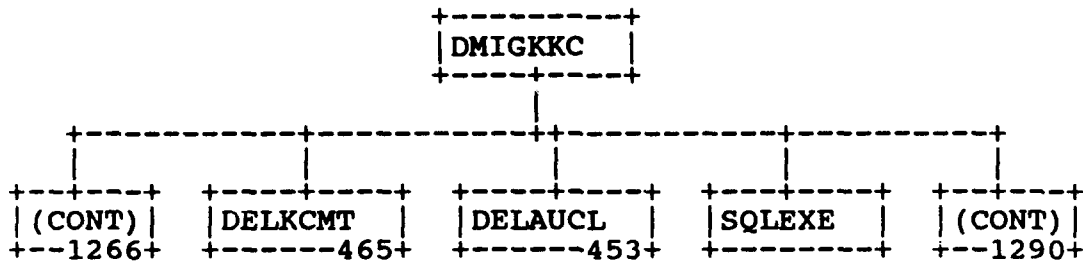
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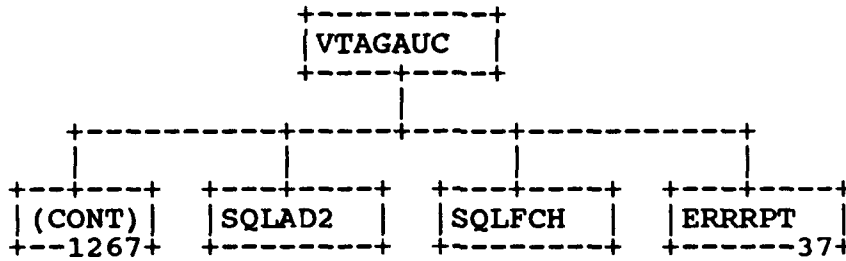
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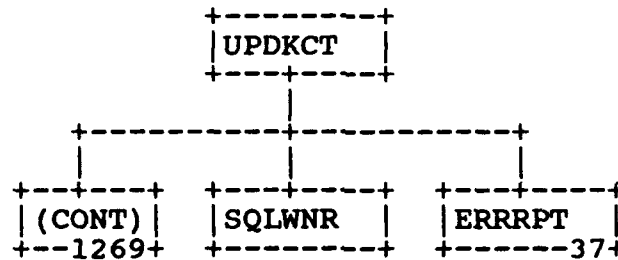
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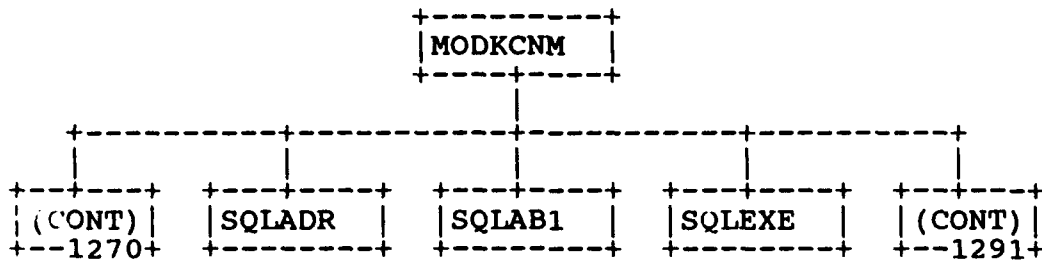
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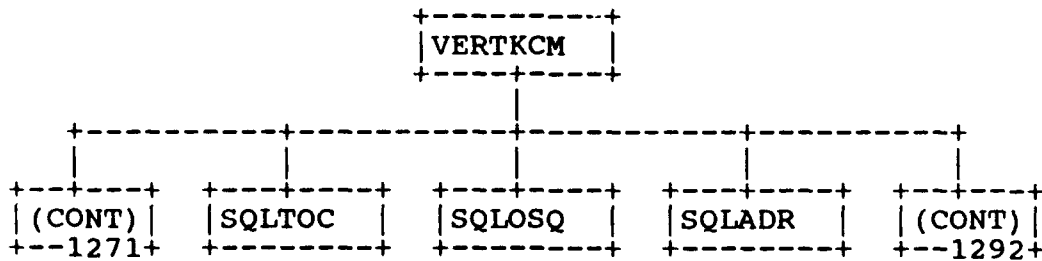
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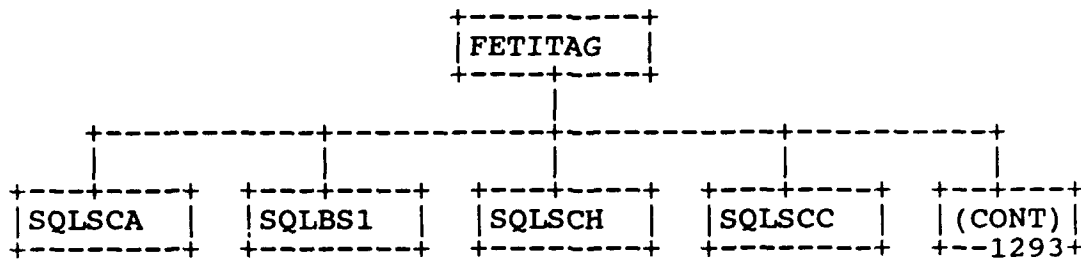
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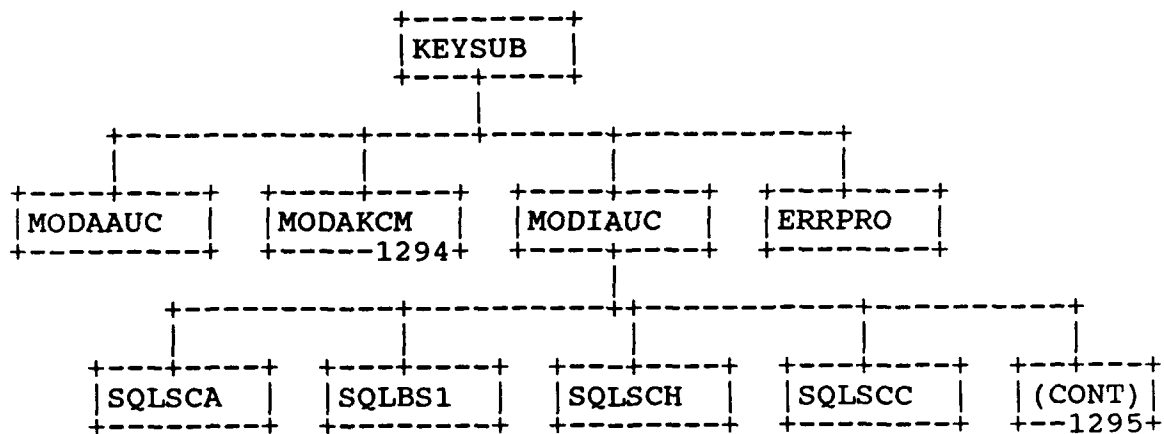
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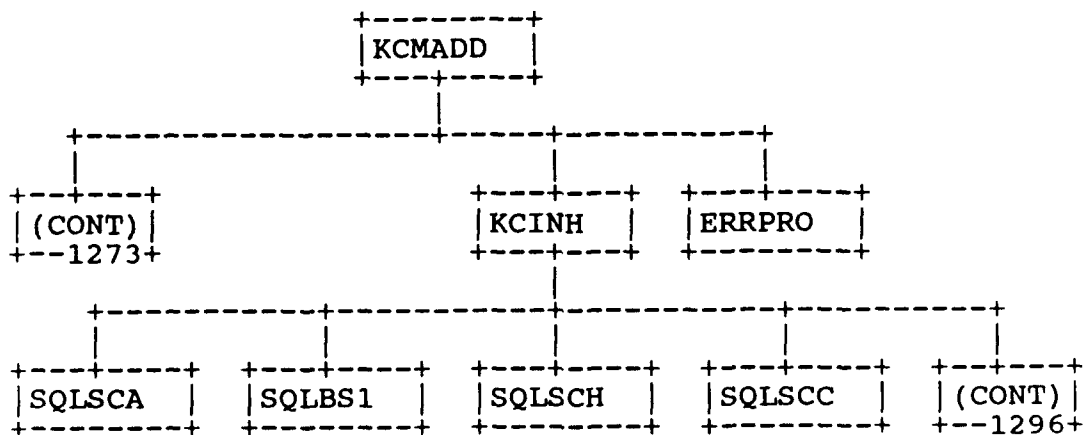
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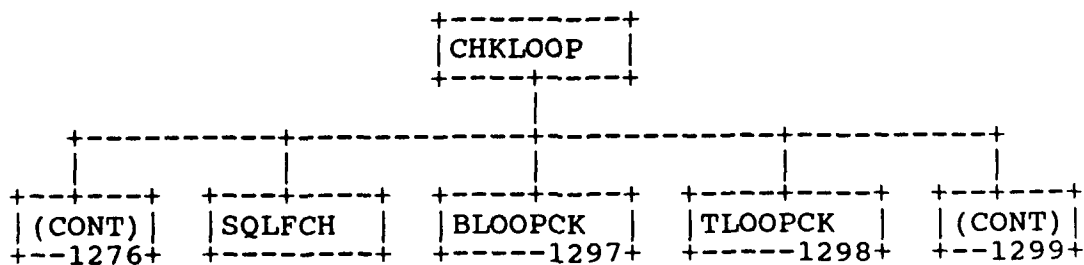
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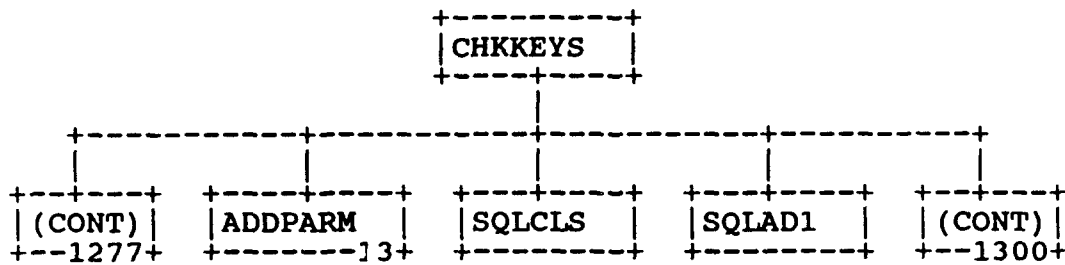
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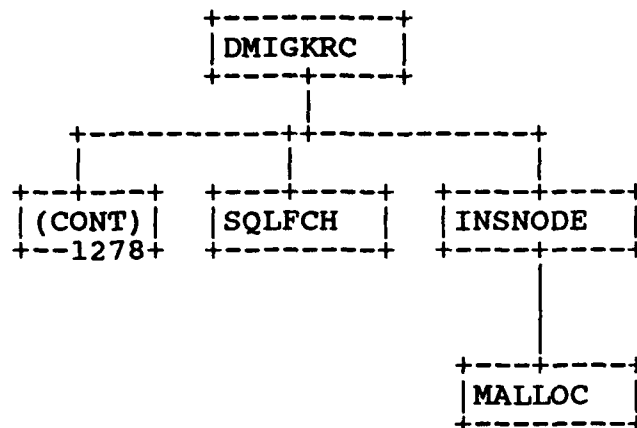
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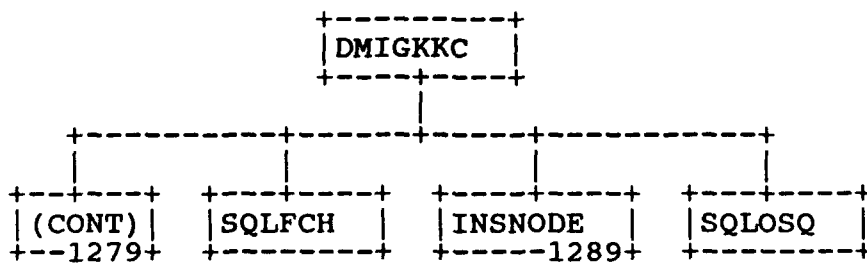
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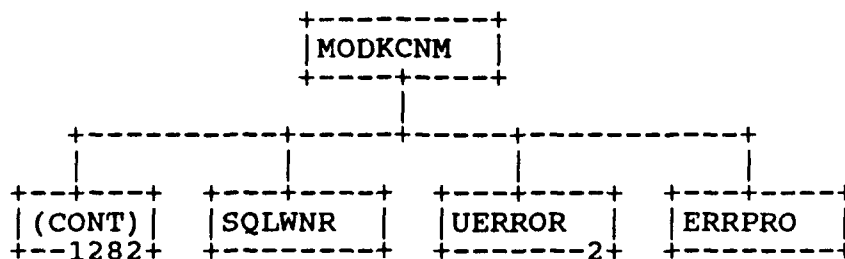
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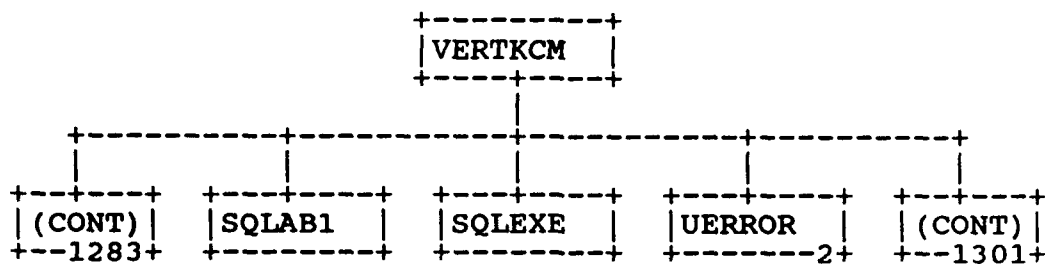
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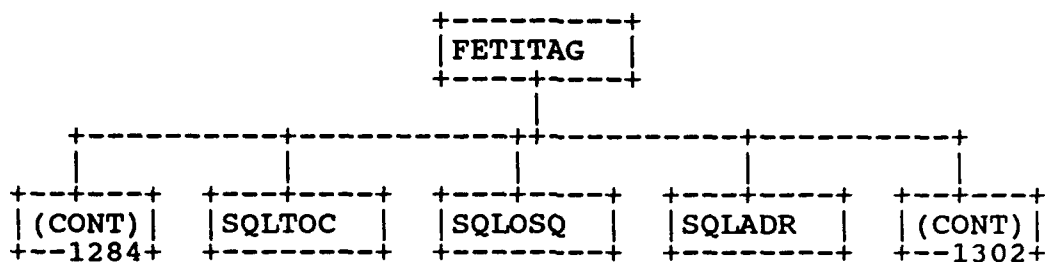
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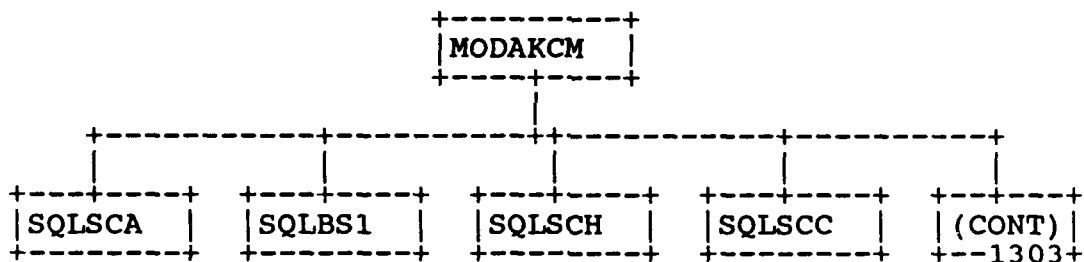
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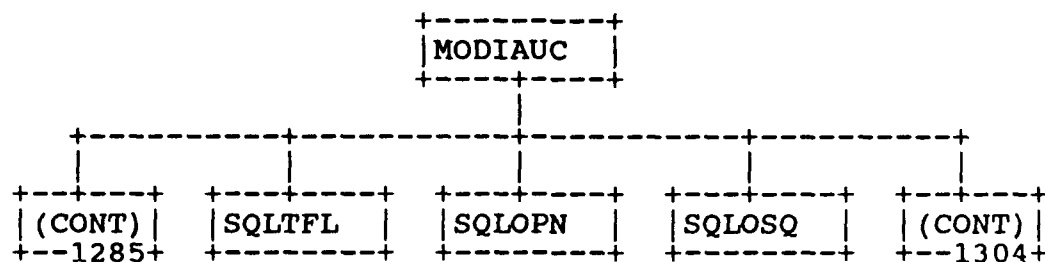
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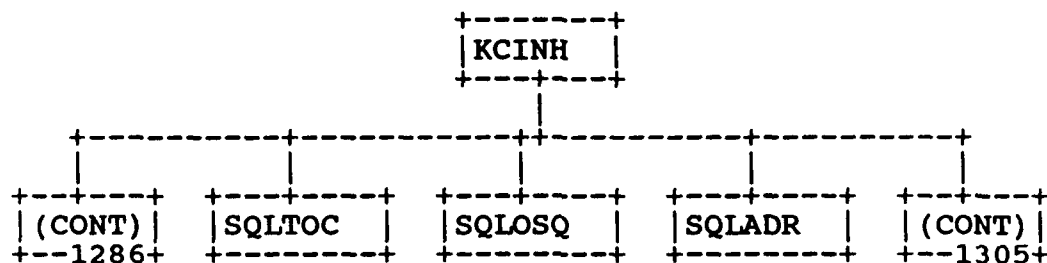
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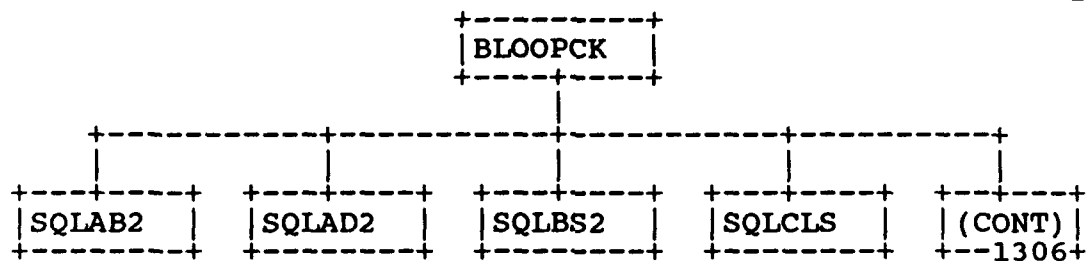
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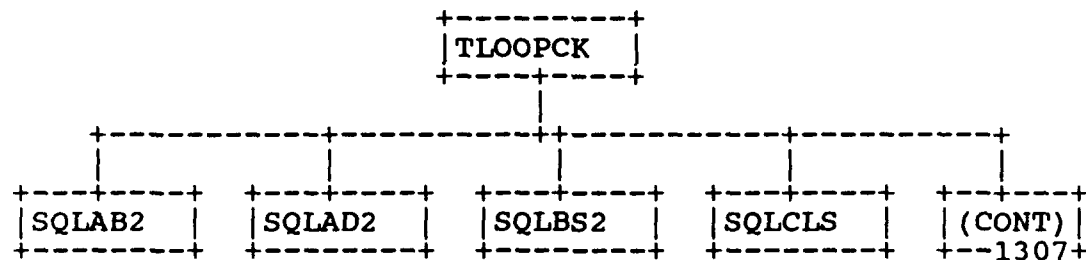
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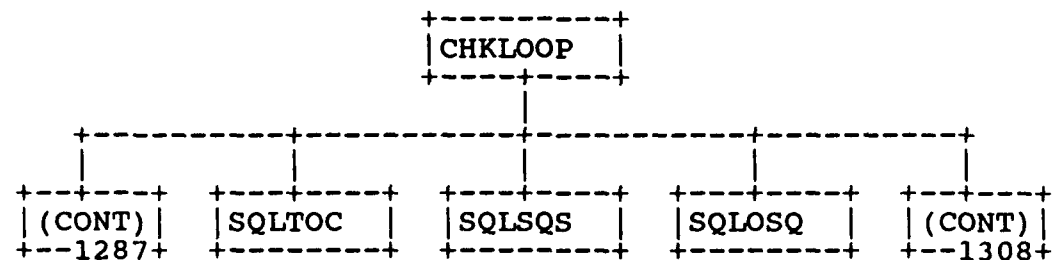
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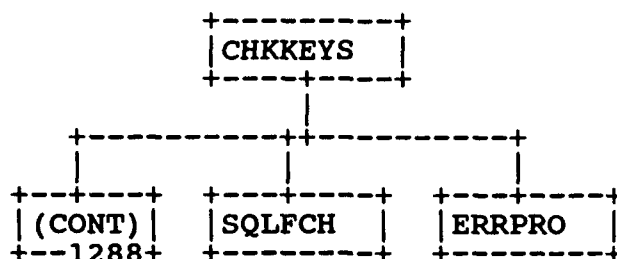
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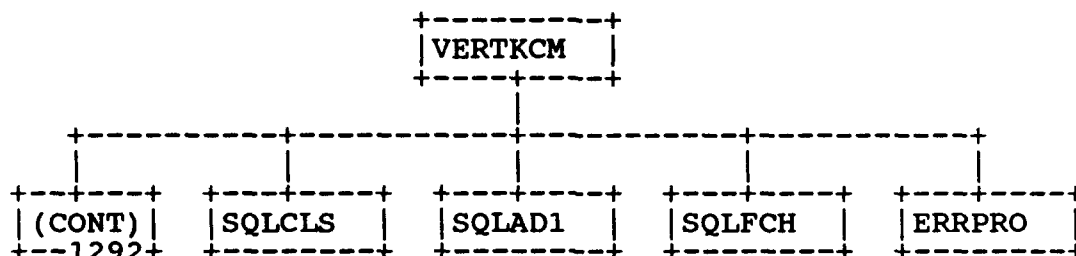
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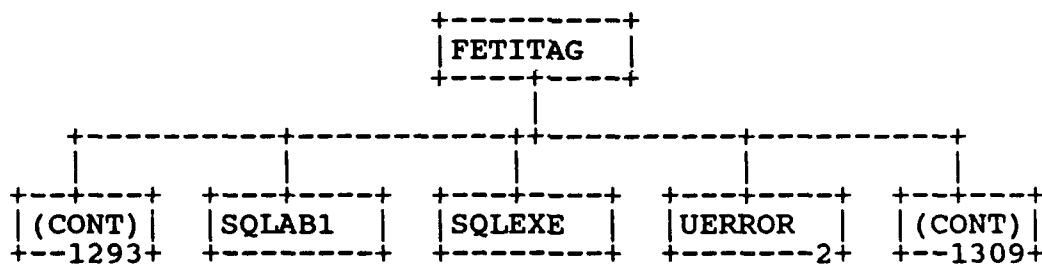
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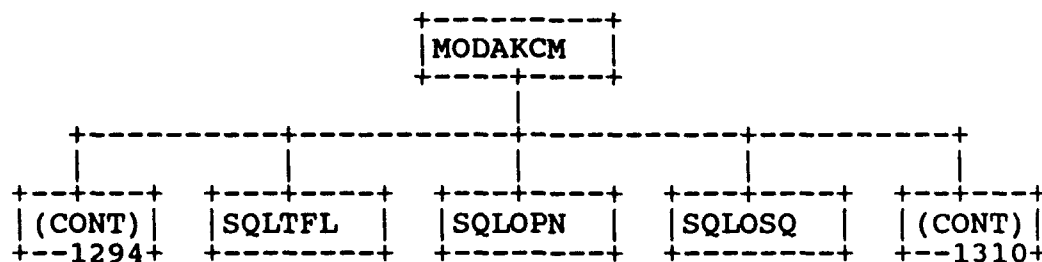
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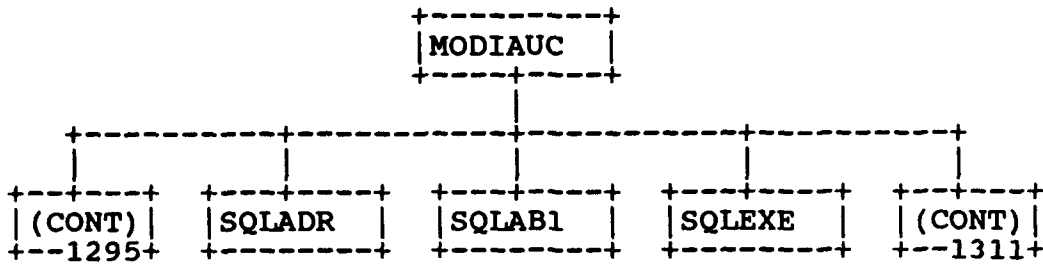
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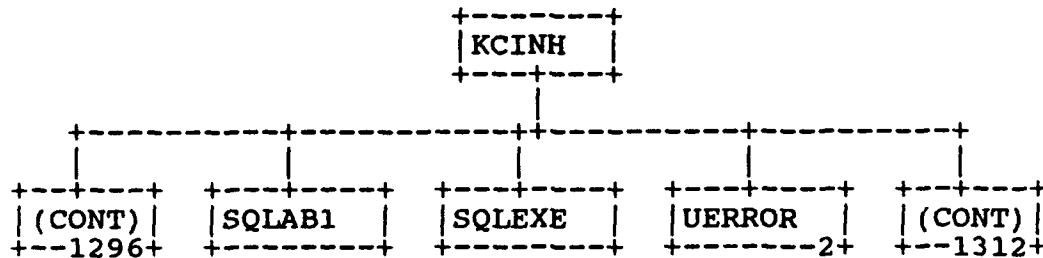
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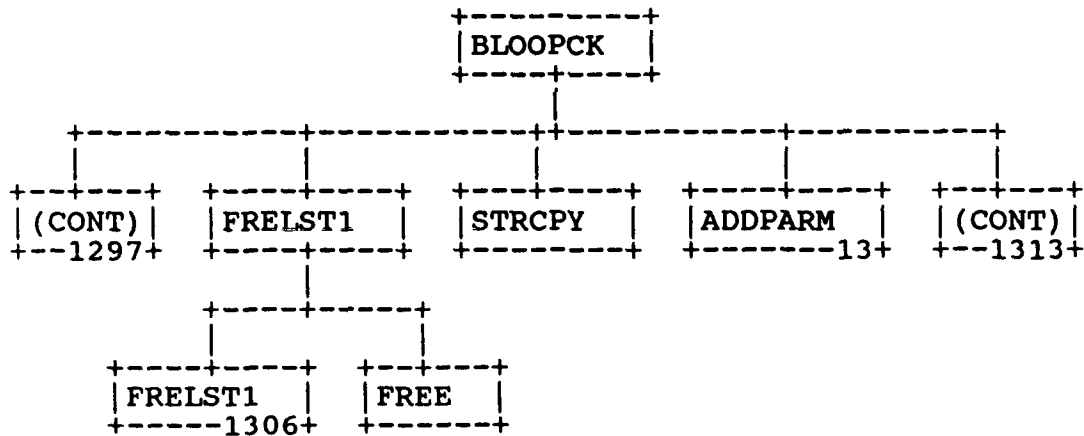
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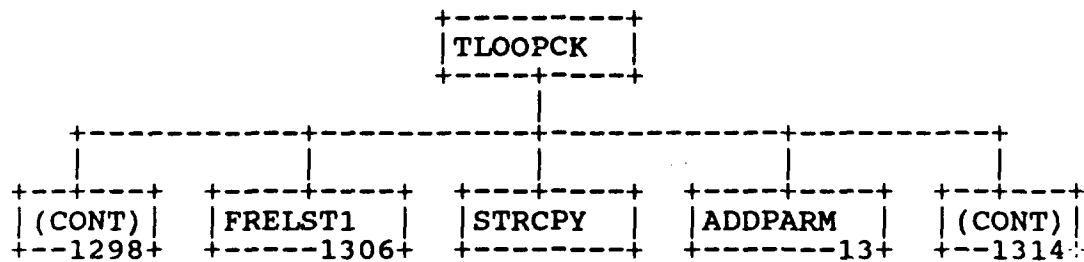
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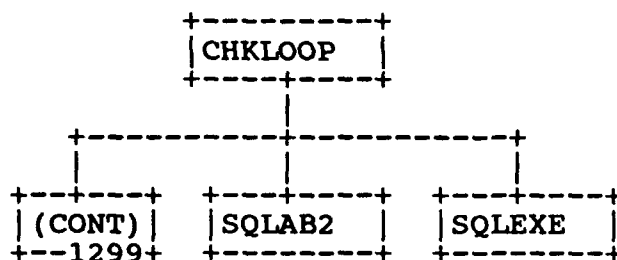
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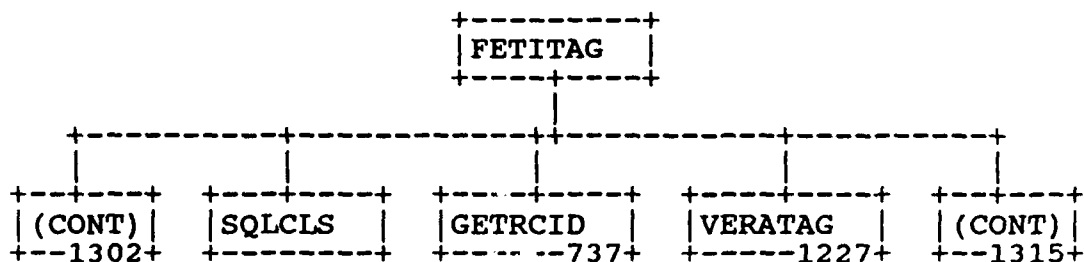
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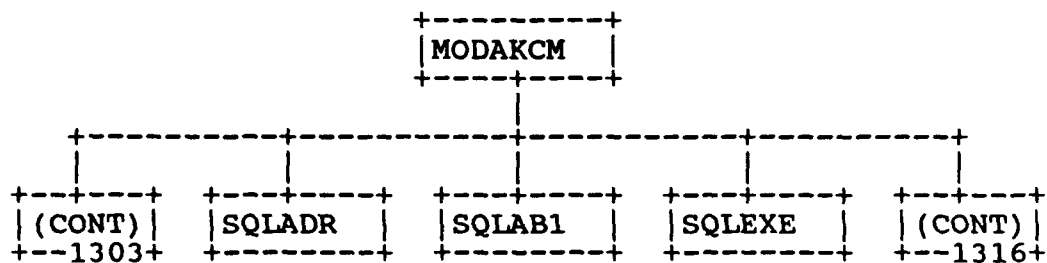
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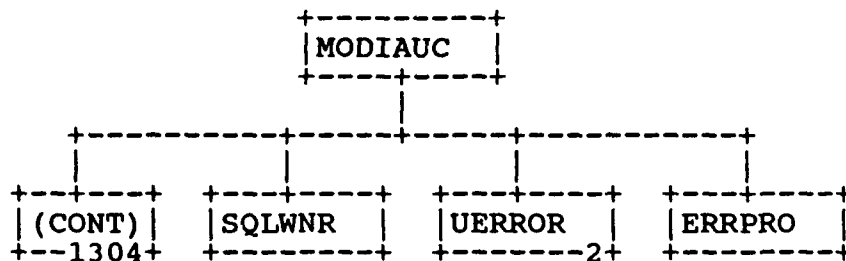
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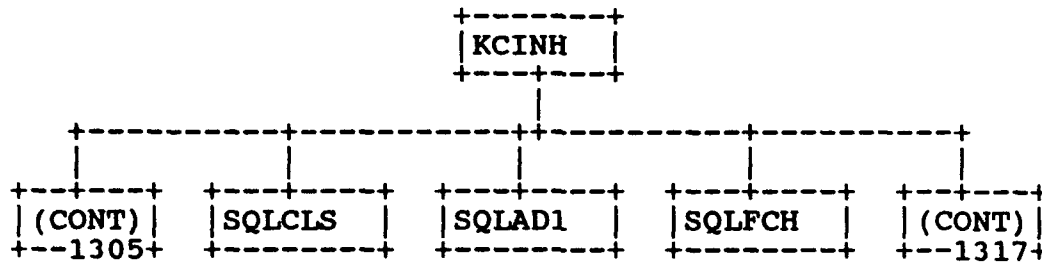
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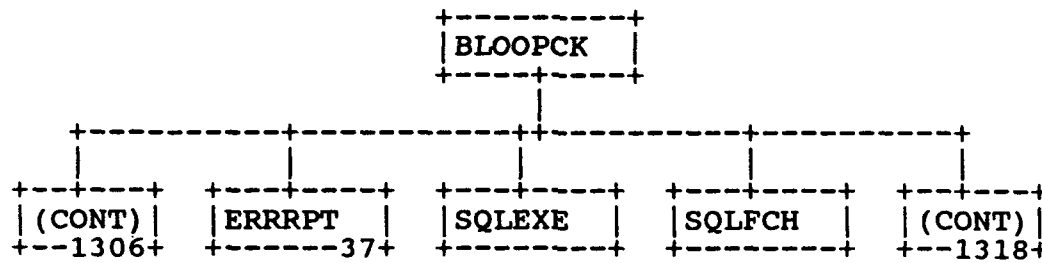
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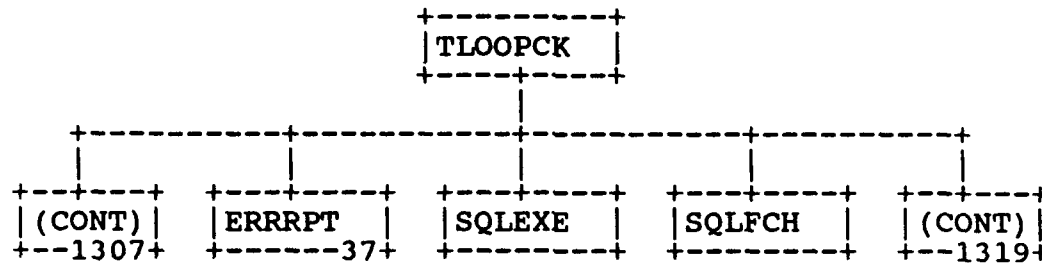
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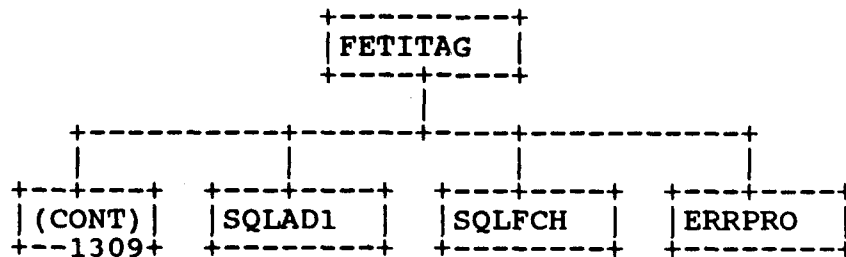
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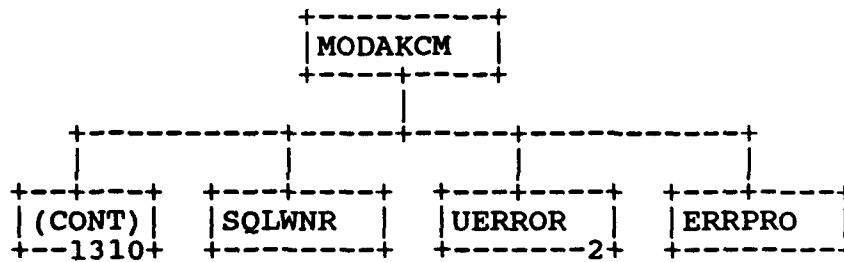
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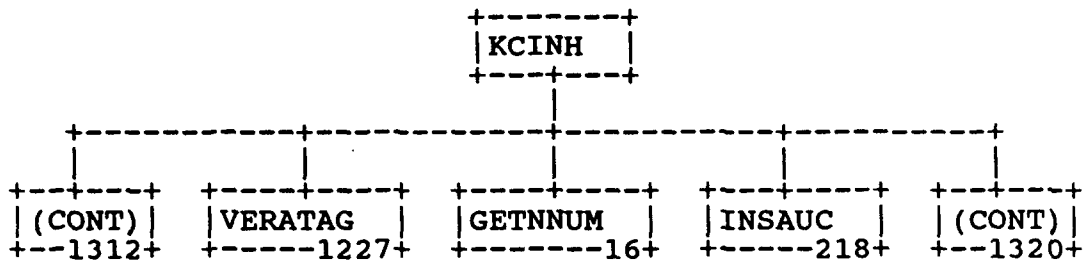
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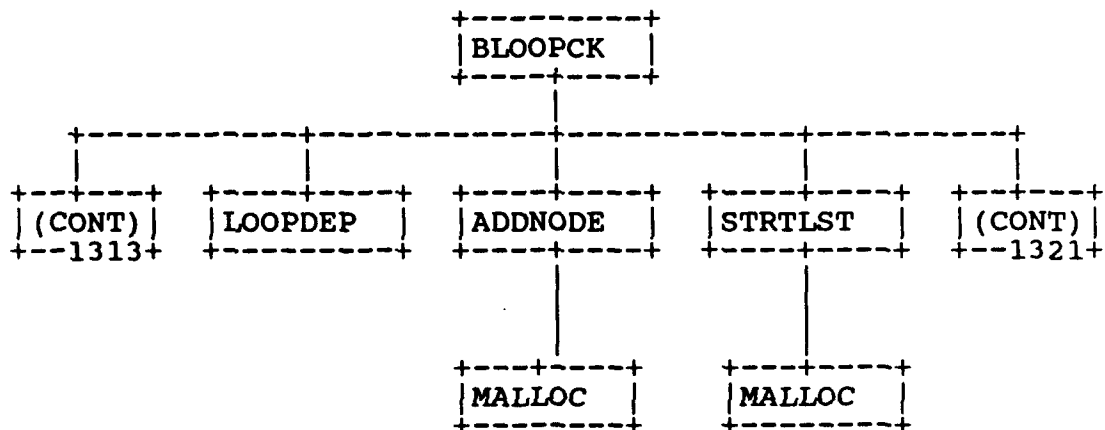
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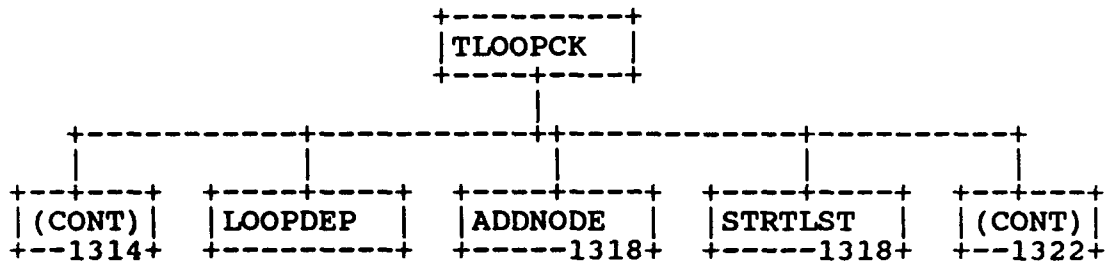
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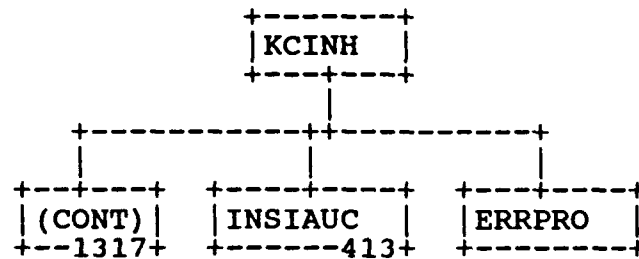
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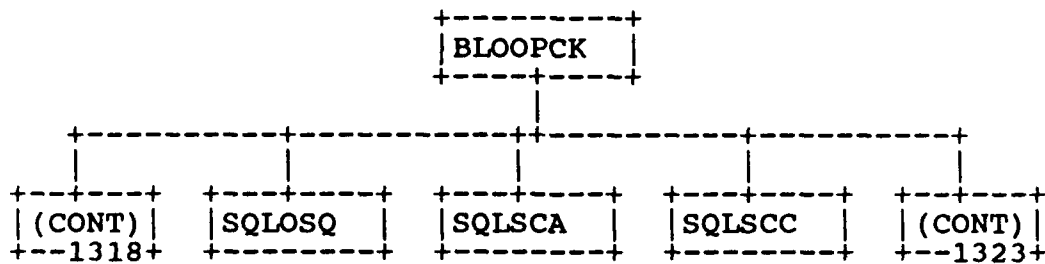
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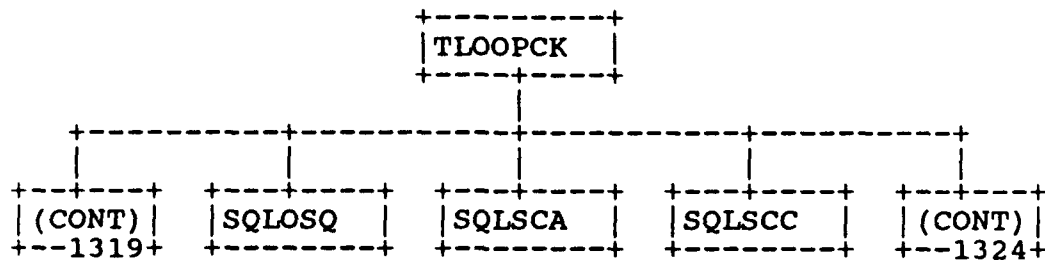
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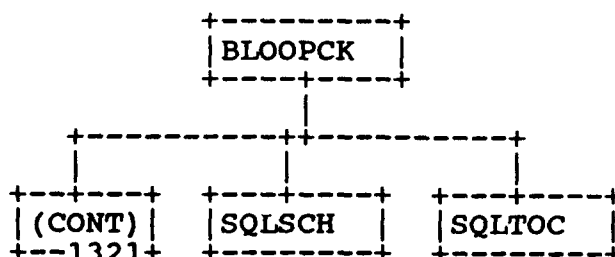
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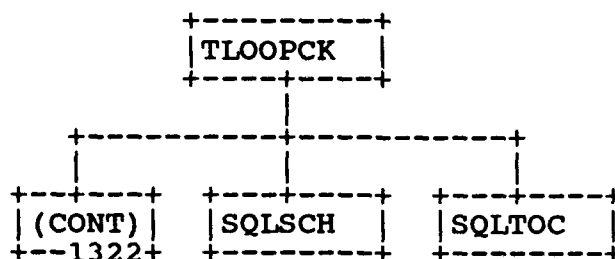
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1323



1324



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ADDDT.....	2	ALLREC.....	13
ADDEC	119	ALLREL	736
ADDECNM	253	ALLRNG	91
ADDFLDS.....	3	ALLRSET	115
ADDFRM		ALLSET.....	14
ADDKC	1194	ALLVALU	70
ADDKCLS	119	ALLVIEW	334
ADDKG	148	ALMROJC	109
ADDKM	1226	ALT1ERT	
ADDKW	201	ALTAISM.....	15
ADDKWA.....	4	ALTALI	1120
ADDKWE.....	5	ALTATT	1121
ADDKWR.....	6	ALTCARD.....	24
ADDMAP	235	ALTCAT	1122
ADDMIG	330	ALTCODL.....	25
ADDMIGC	346	ALTDB	
ADDNCORR.....	851	ALTDDBMS	
ADDNODE	1318	ALTDDBT.....	26
ADDNSTD	2	ALTDOM	1158
ADDOAC	1193	ALTDT.....	32
ADDPARM	13	ALTENT	1159
ADDP RMS		ALTENTK	1211
ADDRNUM		ALTFLDS	1177
ADDSTD	8	ALTHST	1178
ADDTXT	22	ALTIMS.....	33
ADDUNIN	205	ALTMAP	1160
ADD CORR	1123	ALTMOD	1179
ADD TO CNT	1162	ALTORCL.....	34
ADD TO LST	1142	ALTPART	1179
ADP ARM1	149	ALTPSB	1213
AKCROW	119	ALTREC	1214

ALGCHK	303	ALTREL	1198
ALGDTN	304	ALTSMAP	
ALLATT	733	ALTSMOD	1197
ALLCSET	141	ALTTAG	1210
ALLDB	83	ALTUNIN	1232
ALLDBMS	84	ALTVLRG	1174
ALLDOM	70	ALTVMOD	43
ALLDT	70	AOACHK	1189
ALLECRT	133	AOACOPR	1156
ALLENT	734	AOACREC	1172
ALLKEY		AOACTAG	1189
ALLMCAT	88	AOADPM	1203
ALLMENT	108	AOAEVAL	1156
ALLMREC		AOAGAI	1204
ALLMREL	132	AOAKC	1187
AOAMGDP	1204	CHKSTMP	269
AOAPICR	1221	CHKVAL	50
APNAME		CKDUPEC	
ATTKW		CKRNLST	
BLDATT		CLSFIL	
BLDATT1	187	CMBACAL	208
BLDRCEC	220	CMBALI	
BLECLST	253	CMBEKW	
BLKCL1	119	CMBENT	52
BLKCLST	730	CMBOA	178
BLOOPCK	1297	CMBRKW	211
BLRCKC	736	CMCOUNT	910
BLRCKC1	189	CMPCRDA	892
BLVWLST	331	CMPMOD	53
BRANCHR	1087	CMPTAGS	467
CATFROM	151	COBINDN	
CDMACR		COCLOSE	
CDMACRX	77	CODFINN	
CDNMOD		COEXEC	
CDP4A	335	COFETCH	
CDPIC8		COMMIT	1105
CDRPESU		COMMITFN	
CDRPXRF		COMMITMN	
CDS01		CONVCPF	
CDSDATE		COOPEN	
CDTRNSX	386	COPAALI	156
CERELS	665	COPAKW	127
CESTRUC	680	COPATT	54
CHAIN SYMB		COPCKW	226
CHGDOM	1138	COPEKW	101
CHGLOBL		COPENT	55
CHKATT	1233	COPOA	127
CHKAUCV	401	COPRKW	258
CHKCARD	300	COPTOPE	163
CHKCAT	1208	COPVALI	
CHKCDOM	1155	COPYAC	157
CHKCMPX	227	COSQL3	
CHKDOMS	362	CPARM	1044
CHKHPRT	269	CPDDRAL	869
CHKKEYS	1249	CPDDRSP	858
CHKLOOP	1247	CPDOFAL	868

CHKMKM	1263	CPDOFSP	857
CHKMOD	1215	CPFCOR	3
CHKOWN	35	CPFNXT	27
CHKREL	1248	CPFONE	8
CHKRELC	1233	CPFVAL	
CHKRNG	43	CPY1HST	
CPY1SMD	166	DEFIMS	307
CPYDB	66	DEFORCL	308
CPYDBMS	67	DEFPSB	339
CPYDES	853	DEFREC	340
CPYDOM	56	DEFSET	341
CPYDSTP	68	DEFSMOD	368
CPYHST	86	DEL1AIM	
CPYMAP	87	DEL1ASM	640
CPYMCAT	88	DEL1ERT	
CPYMENT	108	DEL1PDF	640
CPYMOD	89	DEL1PRF	342
CPYMODU	113	DELAAL	342
CPYMREC	114	DELAC	682
CPYMREL	132	DELACAL	861
CPYMSET	115	DELACKW	862
CPYREC	143	DELACNM	863
CPYSET	144	DELAON	502
CPYVIEW	145	DELAISM	394
CRCLASA	854	DELAICM	
CRCLASS	855	DELAIRM	1230
CREATTR	137	DELAIRA	41
CRPARM	892	DELAIR	369
CRPARM2	910	DELAIR1	880
CRPARM3	928	DELAIR2	881
CRTALI	146	DELAUC	440
CRTATT	173	DELAUCK	454
CRTCAT	147	DELAUCL	453
CRTDOM	174	DELICIA	882
CRTDSCT	175	DELICM	472
CRTEXT	176	DELICM1	516
CRTEXT		DELICMP	468
CRTMACR	50	DELICMPR	470
CRTMAP	203	DELICNI	502
CRTMOD	176	DELICPRC	564
CRTPART	204	DELICR	494
CRTRELA	238	DELICRIP	471
CRTUNIN	205	DELICRP1	694
CRTVIEW	239	DELICRP2	572
CRTVLRG	8	DELICRP3	586
CRTVMOD	27	DELICRP4	604
DBLOOK	241	DELICRP5	573
DEFALG	273	DELICRP6	369
DEFAREA	240	DELICRP7	460
DEFCDL	274	DELICRP8	543
DEFDB	240	DELICRP9	518
DEFDBMS	275	DELICRP10	574
DEFHST	275	DELICRP11	587
DELDFL3	599	DELICRP12	425
DELDIV	369	DELICRP13	425
DELDOM	521	DELICRP14	939

DELD SCT	498	DELRBR2	954
DELD SL1	605	DELRC	430
DELD SL2	636	DELRC KW	424
DELD SL3	548	DELRCST	955
DELDT	411	DELREUS	
DELDTD	521	DELROJ	425
DELDTNO	546	DELROJE	433
DELEC	883	DELRST2	601
DELECAL	712	DELRST3	549
DELECKW	901	DELRTY2	570
DELECNM	902	DELSDF1	956
DELECON	395	DELSMOD	77
DELECRF	395	DELSN1	519
DELFLDA	39	DELSTM1	603
DELFLDS	522	DELSTM2	656
DELHPN		DELSTM3	578
DELHPNA	526	DELTEXT	452
DELHST	395	DELTX	983
DELIAUC	445	DELUNIN	
DELIAUK	903	DELVIEW	433
DELIRCS	699	DEPATT	
DELKC	510	DEPEC	288
DELKCM	423	DEPENT	254
DELKCMT	465	DEPENTD	254
DELKW	920	DEPFROM	150
DELKWAC	921	DEPKCM	159
DELKWEC	904	DEPKCM1	159
DELKWRC	937	DEPREL	223
DELLR	431	DEPREL1	256
DELMDKC	423	DEPRELA	223
DELMDRC	424	DESCRB	965
DELMIGK	466	DLDTAG	487
DELMOD	551	DLDSL2	966
DELMTAG	448	DLMDAUC	440
DELMTKC	449	DLMIGRC	513
DELOAC	694	DLMTMAP	486
DELOACE	684	DLTPRFA	488
DELOWAC	938	DMIGKKC	1236
DELPARM	77	DMIGKRC	1235
DELPCB	628	DOMUSAG	520
DELPDF	448	DPKCLST	189
DELPDI	412	DRPAC	1175
DELPSB	553	DRPALG	447
DELPSWD	542	DRPALI	
DRPALTG	448	ECRTALL	489
DRPARMS	1230	ECRTCHK	637
DRPATT	449	ECSTRUC	222
DRPCAT	450	EDITCI	
DRPCRE	458	ENTKW	645
DRPCRE1	513	ERRPRO	
DRPDB	459	ERRRPT	37
DRPDBMS	460	ERRTRAP	1003
DRPDF	676	ESCPY	
DRPDFMP	664	EXCFLAG	52
DRPDIV	476	EXIT	
DRPDOM	477	FCLOSE	
DRPDSCT	478	FCOPATT	80

DRPDT		FCOPENT	665
DRPECRT		FETITAG	1284
DRPENT	479	FILEINS	973
DRPFLD	499	FINDDOM	646
DRPHST	479	FLDSEMS	666
DRPKC	1192	FMTIAUC	313
DRPKW	1157	FND1MEM	402
DRPKWC		FNDACM	682
DRPMAP	500	FNDASA	328
DRPMGKM	1224	FNDASM	667
DRPMGRC	513	FNDAUC	683
DRPMIG	524	FNDEC	
DRPMOD	525	FNDECCM	118
DRPPART	526	FNDECCR	63
DRPPRF1		FNDECM	684
DRPPSB	553	FNDECM1	78
DRPRCE	554	FNDOAC	694
DRPREC	555	FNDPDF	685
DRPREL	588	FNDRCEC	
DRPRNG	1223	FNDRCIE	
DRPRNGA	497	FNDRCM	689
DRPRULE	489	FOPEN	
DRPSET	556	FREE	
DRPSMAP	589	FREELST	1117
DRPSMOD	617	FREE_SYMTAB	
DRSPRF	618	FREGCLST	492
DRPSTMP	643	FRELST1	1306
DRPUNIN	590	FRELST2	
DRPVAL	1190	FRETAGLST	504
DRPVALA	497	FRTOREL	117
DRPVIEW	619	GDATA	
DRPVMOD		GEN1DSC	867
DTUSAGE	644	GENAKW	207
ECLOOK	619	GENALG	
GENALI	208	GENSET	14
GENALT1	695	GENTODF	
GENALTE	182	GENTOST	193
GENAREL		GENVIEW	717
GENATT	207	GETACAL	
GENATTR	127	GETCARD	705
GENCAT	191	GETCHAR	
GENCMPX	227	GETCRID	708
GENCNM1	399	GETCRNM	708
GENCNM2		GETDBST	366
GENCNM3	262	GETDFSL	14
GENCNME	212	GETDOM	361
GENCREC		GETDKT	585
GENCRPT	140	GETDTN	327
GENCRUN	194	GETECAL	712
GENDALG	263	GETECNM	229
GENDB	105	GETECS	1233
GENDCOM	224	GETGLOB	171
GENDEP	224	GETHOST	
GENDESC	22	GETMEMB	14
GENDOM	70	GETNCHR	981

GENDT	70	GETNNUM	16
GENECRT	134	GETNXNO	28
GENEHP	162	GETRCID	737
GENEKW	759	GETRCNM	752
GENENT	759	GETRDH	143
GENENT1	149	GET_FIRST_SYMB	
GENENT2	374	GET_FRST_CHAIN	
GENEUN	194	GET_NEXT_SYMB	
GENFIL		GTAUCPR	709
GENFLD	22	GTCNTPR	263
GENFROM	184	GTDIPR	709
GENGENC	225	GTDTTYP	386
GENICOM	259	GTVIEWS	717
GENIND	259	HALT	1104
GENKEY	131	HOOK_FORM	1040
GENMAP	193	HPNLOOK	552
GENMENT	162	ICOPATT	79
GENMREL		ICOPENT	102
GENMROJ		INDFROM	183
GENOA	759	INITAL	
GENPSB	696	INITCMD	
GENREC	13	INITFP	
GENREL	704	INITRDL	
GENREL1	377	INITSES	1027
GENRKW	325	INPFIL	
GENRNME	180	INS1PSB	365
INS1ROJ	713	INSPWRD	721
INSAC	247	INSQCRF	333
INSACNM	79	INSQCTG	333
INSAISM	381	INSRC	242
INSAPRM	393	INSRCRS	427
INSAREA	41	INSRNG	36
INSAUC	218	INSRSET	392
INSAUCS		INSRTPA	407
INSCATM	312	INSRTYP	721
INSCATR	277	INSRULE	721
INSCOPA	419	INSSCH	274
INSCRC	278	INSSMOD	51
INSDAA	713	INSSTM	391
INSDB	713	INSTAGLST	558
INSDBH	718	INSTFLD	40
INSDBMS	718	INSTGPA	389
INSDESC	872	INSUNIN	725
INSDFPA	407	INSVAL	27
INSDI		INSVIEW	272
INSDIPA	407	INSVMOD	62
INSDOM	174	ISLOWER	
INSDSCT	202	KCINH	1286
INSDSL	409	KCMADD	1273
INSDT	16	KCMDRP	1260
INSEC	81	KCMSUBS	1259
INSECNM	98	KEYADS	1245
INSECRF	332	KEYLOOK	219
INSECRT	403	KEYSUB	1285
INSGECLST	592	KYSTRUC	189
INSHST	718	LDECLST	255
INSIAUC	413	LISTNAME	

INSKC		LOADESC	992
INSKCM	251	LOOPDEP	
INSKW	957	LOWUPP	3
INSKWAC	4	LVLCHK	976
INSKWEC	5	LVLCHK1	977
INSKWRC	6	MALLOC	
INSLNKR	329	MALTOAT	726
INSMOD	967	MAPADF	327
INSNODE	1289	MAPAREC	403
INSOAC	217	MAPAROJ	383
INSORDR	968	MAPASET	382
INSPARM	76	MAPRC	402
INSPART		MEMCPY	
INSPCB	338	MGENENT	726
INSPDF		MGENOA	726
INSPDI	363	MGENREL	325
MIGREL	210	OUTDESC	1005
MKRNLS1	371	OUTFIL	
MKRNLS1	385	P1FROM	334
MODAAUC		PDATA	
MODACEC	1222	PMSGLS	
MODACKW	988	PNOFROM	302
MODAISM		PRESMIG	1217
MODAKCM	1294	PRINTF	
MODATT	137	PROCDT	1158
MODAUCE	727	PROCMD	1028
MODDBAL	727	PROCPRM	
MODECKW	989	PUTC	
MODENT	112	PUTCHAR	
MODIAUC	1285	PUT SYMB	
MODKC	138	RACKW2	738
MODKCNM	1258	RCCHK	739
MODLOC	31	RCCHK1	740
MODOATT	111	RCLASA	1013
MODPCB	33	RCLASS	1014
MODPWRD	34	RDDDESC	1015
MODRCKC	164	RECKW2	732
MODRCKW	990	RECSEMS	30
MODREL	165	RELKW	
MODREL1	198	REVIEW	302
MODRELA	165	RENMOBJ	741
MODSCH	25	RESETFN	
MODYFLD	550	RESETMN	
MRGMOD	728	RETACKW	741
MRGMOD1	730	RETATTR	1156
MRGMOD2	731	RETDT	42
MRGNODE	1000	RETECKW	645
NCOMMIT	1105	RETRAC1	746
NDDL/MAIN	991	RETRAC2	751
NEWTAGM	1202	RETRACP	738
NEW SCOPE		RETRCKW	746
NEXTKC	35	RETREC1	752
NEXTKCM	182	RETREC2	756
NFLCLOS	185	RETRECP	708
NFLOPEN	93	RETRFLD	17
NRGET	1001	RETRNGA	1207
NROLBAK	1071	RETSTD	1240

NRSTORE.....1002	RETVALA 1174
OISCR	RETVMOD
OLDTAGM 1173	RMVPAG
OPNFIL	RNGVERF
OPNFRM	ROLBACK 1071
ORALON.....729	RPLFRM
RRCKW2.....752	SELUNIN 1246
SAVTAGS	SELURT 659
SCANF	SETCOMM.....1016
SEL1DSC 872	SETGLOB.....1025
SELACNM 181	SETOUT 1087
SELAIMP 642	SET LEVEL
SELAIMT.....762	SIGNAL
SELAISM.....757	SMVIEW 361
SELAPRM 227	SPRINTF
SELCATC.....757	SQLAB1
SELCATM 517	SQLAB2
SELCRAD.....763	SQLAD1
SELCRDN	SQLAD2
SELDB 106	SQLADR
SELDBAA 13	SQLBS1
SELDBMS 304	SQLBS2
SELDBNM 194	SQLCLS
SELDBRT 160	SOLEXE
SELDESC 869	SQLFCH
SELDFPM 227	SQLLO1
SELDI 263	SQLOPN
SELDSTP 68	SQLOSQ
SELECNM 150	SQLSCA
SELECXR	SQLSCC
SELFLDS	SQLSCH
SELHOST 106	SQLSQS
SELHP.....763	SQLTFL
SELHSTS.....766	SQLTOC
SELIAUC 244	SQLWNR
SELIKEY 221	STARTBL 196
SELKCM 131	STRCAT
SELKCMA	STRCPY
SELMODS 167	STRINS 981
SELMREC 140	STRLEN
SELMTAG 193	STRNCMP
SELPARM	STRNCPY
SELPEC 108	STRQCRF 333
SELRCNM 117	STRTLST 1318
SELRELC	TERATTR 157
SELRELL	TERDIR 102
SELRMAP 192	TERKEY 219
SELRSET 634	TERMFP
SELRTPM 227	TERMSSES 1017
SELSET 169	TERREL 103
SELSETC.....1024	TERSIM 82
SELSTM 635	TERSTR 129
SELTGEC	TLOOPCK 1298
TOPNODE 735	UPDRCB 806
TOUPPER	UPDRCNM.....1070

TRADIR	81	UPDRDFU	1098
TRAFIL	101	UPDREC	776
TRMDDL	1029	UPDRRCB	1099
TRMDML		UPDRRS	1100
TXTTYP	965	UPDRSS	805
UERROR	2	UPDRSTM	1114
UINDDL/MAIN	1036	UPDRT	776
UPD1PSB	1231	UPDRULE	777
UPDAC	1171	UPDSET	790
UPDACAL	1154	UPDSMOD	
UPDACNM	1037	UPDSTM	807
UPDAPP	1038	UPDTCR	1115
UPDAUC	809	UPDTDOM	1116
UPDAUCE	1205	UPDTDI	
UPDAUCS	766	UPDTKW	1132
UPDCRNM	1085	UPDTRC	1133
UPDDAA	1050	UPDUDT	772
UPDDB	779	UPDVIEW	1134
UPDDBH	780	UWARN	24
UPDDBN	1051	VALDROP	791
UPDDDI	770	VALDTN	380
UPDDF	1052	VALROJ	811
UPDDFU	808	VALVERF	
UPDDI	768	VALVWRC	335
UPDDT	767	VERACDT	477
UPDDTI	768	VERACNM	64
UPDECAL	1153	VERAIM	637
UPDECNM	1053	VERAIMD	474
UPDEDF	771	VERAIMR	
UPDFDF	787	VERAISM	269
UPDFDFU	775	VERALG	455
UPDFLD	775	VERALGI	305
UPDFPDF	1067	VERALI	792
UPDHOST	769	VERALMP	303
UPDHST	778	VERAODM	177
UPDIND	32	VERAPDF	616
UPDKCT	1244	VERAPRM	393
UPDLRNM	1086	VERAREA	31
UPDMNAM	1068	VERARL	31
UPDMOD	1069	VERATAG	1227
UPDMP	773	VERATT	178
UPDNXNO	45	VERATTP	751
UPDPDF	1082	VERAUC	
UPDPSB	781	VERCMSV	
UPDRAUC	1083	VERCMU	279
VERCR		VERHPST	328
VERCRC	1208	VERHST	275
VERCRDA		VERHZP	235
VERCRNM	151	VERIREL	1221
VERCRTC	792	VERITAG	131
VERDB	115	VERKC	359
VERDBA	812	VERKCM	
VERDBAA	813	VERKCMG	
VERDBAL	83	VERKCT	177
VERDBAS	143	VERKCT1	182
VERDBH	365	VERKW	924

VERDBMS		VERKWE.....830	
VERDBRL	474	VERKWR	211
VERDBRT	237	VERLR	150
VERDBST	813	VERLUW	842
VERDF	813	VERMAPD	327
VERDFDT	520	VERMOD	63
VERDFID	299	VERMPDF	609
VERDFLD		VERMPDT	842
VERDFPA		VERMUNI	
VERDFUS	573	VERNMA	1137
VERDI	885	VERNME	
VERDIDN	364	VEROAC	157
VERDIDT	520	VEROBJ	871
VERDIID	841	VEROBJ1	865
VERDIPA		VERPARM	
VERDOM	173	VERPART	237
VERDPSB	307	VERPASS	105
VERDSCT	175	VERPCB	105
VERDSL3		VERPSB	339
VERDSTP		VERRCB	458
VERDT	8	VERRCBS	382
VERDTD	32	VERRCC	210
VERDTFL	327	VERRCMP	
VERDTN	830	VERRCNM	150
VERDTYP		VERRCST	842
VERDUNI	496	VERRCT	383
VERECN	204	VERREC	114
VERECR	830	VERRNG	1223
VERECRT	356	VERROJ	615
VERENT	63	VERROJR	637
VERENTP	756	VERRPS	496
VERERMD	474	VERRSET	142
VERFJOB	51	VERRSUS	574
VERHORZ	543	VERRT	382
VERHPDF	299	VERRTID	848
VERHPN	237	VERRTNO	162
VERRULE	848		
VERSCH	848		
VERSDT			
VERSMOD	139		
VERSMS	382		
VERSTID	849		
VERTAG	327		
VERTAP	528		
VERTAUC	557		
VERTKCM	1271		
VERTMAP	528		
VERTPDI	528		
VERTYP			
VERUDT			
VERUDTN	885		
VERUNIN	849		
VERVAL	279		
VERVIEW			
VERVWQU	528		

VMODPRM	76
VOMAPS	401
VROBJ	858
VROBJ1	866
VTAGAUC	1242
WRDSFL	1005
WRTACKW	121
WRTALG	
WRTALI	95
WRTANAM.	850
WRTDESC	122
WRTDITM	717
WRTDSTP	85
WRTECKW	99
WRTENAM	128
WRTENT	
WRTLIN	13
WRTOAT	111
WRTSLCT	720
WRTWHCL	723
YYERROR	1180
YYPARSE	1123

SECTION 4

QUALITY ASSURANCE PROVISIONS

4.1 Introduction and Definitions

"Testing" is a systematic process that may be preplanned and explicitly stated. Test techniques and procedures may be defined in advance, and a sequence of test steps may be specified. "Debugging" is the process of isolation and correction of the cause of an error.

"Antibugging" is defined as the philosophy of writing programs in such a way as to make bugs less likely to occur and when they do occur, to make them more noticeable to the programmer and the user. In other words, as much error checking as is practical and possible in each routine should be performed.

4.2 Computer Programming Test and Evaluation

The quality assurance provisions for test consists of the normal testing techniques that are accomplished during the construction process. They consist of design and code walk-throughs, unit testing, and integration testing. These tests are performed by the design team. Structured design, design walk-through and the incorporation of "antibugging" facilitate this testing by exposing and addressing problem areas before they become coded "bugs."

3.11 Program Listings Comments

This information is contained in the Module Descriptions in section 3.10.