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Using REXX to Build Your Own DB2 Tools







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Agenda

- Who (what) is REXX?
- Language elements
- Using REXX and DB2
- Error Handling
- Sample applications



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What is REXX?



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REXX Language

- Scripting Language supplied with z/OS
- Can be run using TSO or batch
- Can be used to create custom scripts
- DB2 interface since DB2 Version 5



Rexx

From Wikipedia, the free encyclopedia



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Rexx (Restructured Extended Executor) is an interpreted programming language developed at IBM by Mike Cowlishaw. It is a structured, high-level programming language designed for ease of learning and reading.

Proprietary and open source REXX interpreters exist for a wide range of computing platforms; compilers exist for IBM mainframe computers. [2]

Rexx is used as a scripting and macro language, and is often used for processing data and text and generating reports; these similarities with Perl mean that Rexx works well in Common Gateway Interface (CGI) programming and it is indeed used for this purpose. Rexx is the primary scripting language in some operating systems, e.g. OS/2, MVS, VM, AmigaOS, and is also used as an internal macro language in some other software, such as KEDIT, THE and the ZOC terminal emulator. Additionally, the Rexx language can be used for scripting and macros in any program that uses Windows Scripting Host ActiveX scripting engines languages (e.g. VBScript and JScript) if one of the Rexx engines is installed.

Rexx is supplied with VM/SP on up, TSO/E Version 2 on up, OS/2 (1.3 and later, where it is officially named *Procedures Language/2*), AmigaOS Version 2 on up, PC DOS (7.0 or 2000), and Windows NT 4.0 (Resource Kit: Regina). REXX scripts for OS/2 share the filename extension .cmd with other scripting languages, and the first line of the script specifies the interpreter to be used. REXX macros for REXX-aware applications use extensions determined by the application. In the late 1980s Rexx became the common scripting language for IBM Systems Application Architecture, where it was renamed "SAA Procedure Language REXX."

A Rexx script or command is sometimes referred to as an *EXEC* in a nod to Rexx's role as a replacement for the older EXEC command language on CP/CMS and VM/370 and EXEC 2 command language on VM/SP.

Rexx



Paradigm multiparadigm: procedural,

structured

Designed by Mike Cowlishaw

Developer Mike Cowlishaw, IBM

First appeared 1979; 38 years ago

Stable release ANSI X3.274 / 1996:

21 years ago

Typing discipline

Dynamic

Filename .cmd .exec .rexx .rex

extensions

Major implementations

VM/SP, TSO/E V2, SAAREXX, ARexx, BREXX, KEXX, Regina^[1]

Dialects

NetRexx, Object REXX, now ooREXX

Influenced by

PL/I, ALGOL, EXEC, EXEC 2



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DB2 REXX Extension

- •What's Bad about it?
 - -Can't do a "singleton" SELECT
 - -It's interpretive: Slower than Cobol
- •What's Good about it?
 - -It's FREE
 - -Can define up to 200 Cursors
 - –Don't pre-define host Variables!!!! (except SPs)
 - -Supports Almost all DB2 for z/OS SQL Syntax
 - -lt's interpretive: quickly modifiable, easy to rollout





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REXX Coding Basics

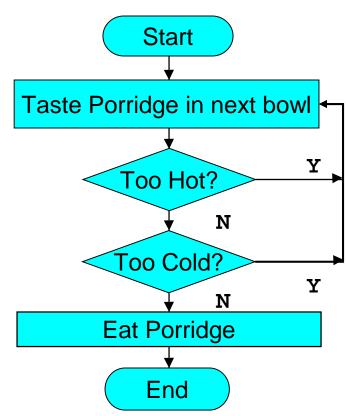


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REXX Basics - Coding

```
/* REXX - Goldilocks --
Call SELECT_PORRIDGE_RTN
Exit(0)
SELECT PORRIDGE RTN:
EAT PORRIDGE FLG = "N"
Do Until EAT PORRIDGE FLG = "Y"
 Call TASTE RTN
 If TASTE ID > 5 Then Iterate
 If TASTE ID < 5 Then Iterate
 If TASTE ID = 5 Then EAT PORRIDGE FLG = "Y"
End
Call GOBBLE PORRIDGE ALL UP RTN
Return;
```







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REXX Basics - Comments

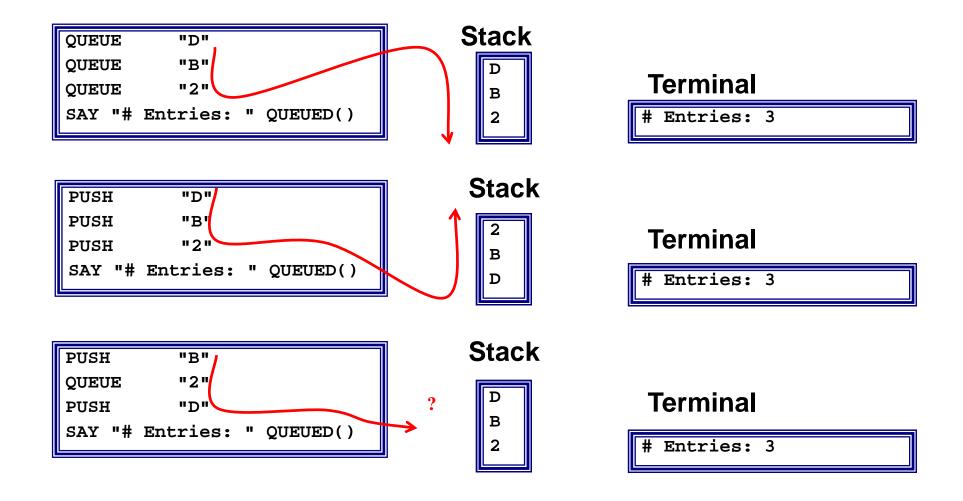
```
Select and eat Porridge
SELECT PORRIDGE RTN:
EAT PORRIDGE FLG = "N"
                                  /* Set flag designating that
                                     Goldilocks has not found
                                     acceptable porridge
Do Until EAT PORRIDGE FLG = "Y"
                               /* Keep testing porridge
    Call TASTE RTN
                                  /* Set TASTE ID to value range 1-9.
                                     A Value of "1" is very COLD,
                                     A Value of "9" is very HOT
                                                                   * /
  Too Hot
              */ If TASTE ID > 5 Then Iterate /* Check next Bowl */
  Too Cold
              */ If TASTE ID < 5 Then Iterate /* Check next Bowl */
/* Just Right */ If TASTE_ID = 5 Then,
                                           /* Bowl Selected
                     EAT PORRIDGE FLG = "Y"
                    /* End of Porridge test loop, check first bowl */
End
Call GOBBLE PORRIDGE ALL UP RTN
                                               /* Consume Porridge */
          /* Porridge has been selected and gobbled - back to main */
Return;
```





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REXX Basics – The Stack

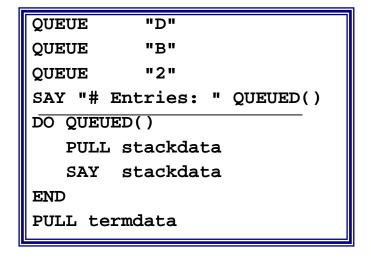


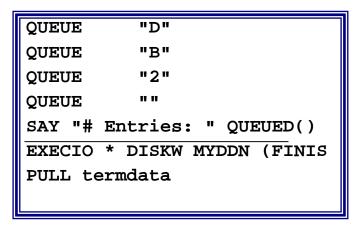


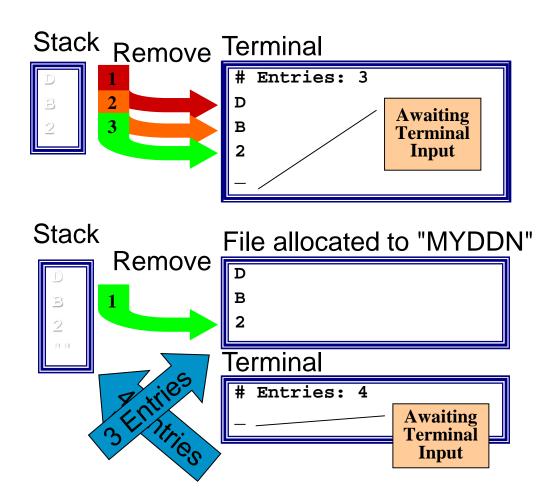
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REXX Basics – More Stack









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REXX and DB2

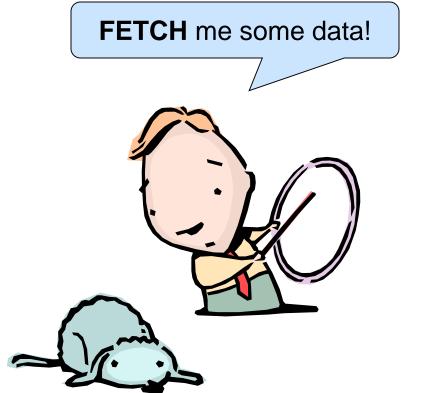


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REXX & DB2

- DB2 doesn't have a native "Scripting language" for use on ISPF
- Third party tools fill the gap
- Homegrown
 - Custom Code: Cobol, ASM,...
 - DSNTEP2 / DSNTEP4
 - DSNTIAUL

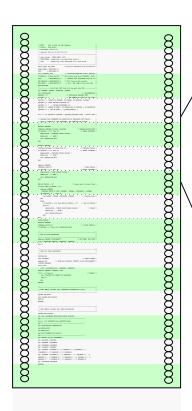






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REXX SQL Interface



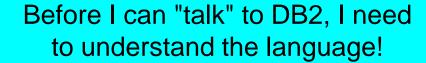
```
Build SQLSTMT - Not shown */
DECLARE CURSOR
PREPARE STMT
OPEN CURSOR
END OF CURSOR = "N"
DO UNTIL END_OF_CURSOR = "Y"
    FETCH INTO :DATA_A, :DATA_B, :DATA_C
    If SQLCODE = +100 Then END_OF_CURSOR = "Y"
    Else Call SQLERR_RTN
End
                                             Thorough
Exit;
                                               Error
SQLERR RTN:
                      Pseudo
                                             Checking
\mathbf{x}\mathbf{x}\mathbf{x}
                       Code
Return;
```

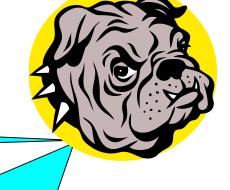




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Parlez-vous DB2?





Add "DSNREXX" to my Command Environment.

Create the REXX/DB2 command interface

```
ADDRESS MVS "SUBCOM DSNREXX"

IF RC THEN S_RC = RXSUBCOM('ADD','DSNREXX','DSNREXX')
```

Remove the REXX/DB2 command interface

```
S_RC = RXSUBCOM('DELETE','DSNREXX','DSNREXX')
```



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Connect to DB2

Establish thread between REXX and DB2



The following statements do the <u>same</u> thing.

```
ADDRESS DSNREXX "CONNECT DB2A"

IF SQLCODE /= 0 THEN CALL error_routine

DB2_SSID = "DB2A"

ADDRESS DSNREXX "CONNECT" DB2_SSID

IF SQLCODE /= 0 THEN CALL error_routine

DB2_SSID = "DB2A"

ADDRESS DSNREXX "CONNECT" DB2_SSID

IF RC = -3 THEN . . . /* Missed SUBCOM setup */
```



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Run SQL

Example of Execute Immediate

ADDRESS DSNREXX

"EXECSQL UPDATE TEST.MYTABLE SET INQ_IND = \Y'"

IF SQLCODE \= "0" THEN,

DO

ERROR NOTE = "UPDATE FAILED "

ERROR_AID = " NONE "

CALL SQLERR_RTN_EXIT

END

More on this stuff later



Test your SQLCODE!



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Building an SQL Statement

```
SQLSTMT = ""
                                   /* INITIALIZE SQLSTMT TEXT
SQLSTMT.0 = 3
                                   /* SET NUMBER OF LINES IN SQL STMT */
SQLSTMT.1 = "SELECT TB.DBNAME, TB.TSNAME, IX.CREATOR,
                                                              Glue literal into
SQLSTMT.2 = "
               FROM " | SOURCE_TABLE
SQLSTMT.3 = "WHERE NAME = \" | | HOST_VARIABLE | | "' " -
                                                              the statement
/* BUILD THE SQLSTMT FOR EXECUTION; EACH LINE APPENDED TO THE PRIOR */
DO X = 1 TO SQLSTMT.0; SQLSTMT = SQLSTMT | SQLSTMT.X | | "
ADDRESS DSNREXX "EXECSQL " SQLSTMT
IF SQLCODE \= "0" THEN,
DO
   ERROR NOTE = "QUERY FAILED "
   ERROR AID = " NONE "
   CALL SOLERR RTN EXIT
END
```







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Building an SQL Statement

```
SQLSTMT = ""
SQLSTMT.0 = 3
SQLSTMT.1 = "SELECT TB.DBNAME, TB.TSNAME, IX.CREATOR, IX.NAME"
SQLSTMT.2 = " FROM "||SOURCE_TABLE
SQLSTMT.3 = "WHERE NAME = `"||HOST_VARIABLE||"'"

DO X = 1 TO SQLSTMT.0; SQLSTMT = SQLSTMT||SQLSTMT.X ||" ";END
```

Memory area for SQLSTMT

```
BLEE WHERE NAME = `fred'
```

```
DO X = 1 TO SQLSTMT.0; SQLSTMT = SQLSTMT | SQLSTMT.3 | | " " ; END
```



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Cursors

```
SQLSTMT =
       SQLSTMT.0
                   = 5
       SQLSTMT.1
                      "SELECT NAME, COLTYPE, LENGTH, SCALE, NULLS
                                                                             ш
       SQLSTMT.2
000066
                              SYSIBM.SYSCOLUMNS
       SQLSTMT.3
                                                     Use parameter marker in
       SQLSTMT.4
                                                          place of literal
       SQLSTMT.5
                    SQLSTMT.0;SQLSTMT = SQLSTMT||SQLSTMT.X||" ";END
       Address DSNREXX
               PREPARE S1 FROM :SQLSTMT"
                          Then Do
                   =
                         PREPARE CURSOR FAILED
000074
000075
000076
               SQLERR RTN Exit
```



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Cursors

000079 Address_DSNREXX

```
'EXECSQL DECLARE C1 CURSOR FOR S1"
                                                                 DECLARE CURSOR
      If SQLCODE \=
                          Then Do
                       0
          ERROR NOTE = "DECLARE CURSOR FAILED
000082
                      = " NONE
000083
          Call SQLERR RTN Exit
000084
000085 End
                                                 Fill in values for
000086
                                                parameter markers
       Address DSNREXX
        'EXECSQL OPEN C1 USING :TBSN, :TBCR"
                                                                    OPEN CURSOR
       If SQLCODE \= "0" Then Do
          ERROR NOTE = "OPEN CURSOR FAILED
000090
000091
          Call SQLERR RTN Exit
000092
```





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Cursors

```
000094 EOF SW =
000095 SAY "COLUMNS:
000096 SAY
000097 DO WHILE EOF SW = "N"
000098
          Address DSNREXX
          "EXECSQL FETCH C1 INTO :CN, :TY, :LN, :SC, :NUL"
000099
          IF SQLCODE = "100" THEN EOF SW = "Y"
000100
000101
          ELSE
000102
            DO
                 SQLCODE \= "0" Then Do
000103
                 ERROR NOTE = "FETCH JOBS FAILED
000104
                           = " NONE
                 ERROR AID
000105
000106
                 Call SQLERR RTN Exit
000107
              End
```



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Cursors

- Cursor names are pre-defined
 - C1 thru C100 defined WITH RETURN
 - C51 thru C100 also have WITH HOLD
- Statement names are also pre-defined
 - S1 thru S100

That's NOT like COBOL!





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Display Table Definition

Option ===> TSO TB DB1A THEMIS81.PROJ

Continuous Terminal and user parameters

Table: THEMIS81.PROJ

Database: DTHM81

Tablespace: TS00PROJ

Tablespace Type: Classic Segmented

COLUMNS:

PROJNO CHAR (6) NOT NULL PROJNAME VARCHAR (24) NOT NULL

DEPTNO CHAR (3) NOT NULL

EMPNO CHAR (6) NOT NULL

PRSTAFF DECIMAL (5,2)

PRSTDATE DATE

PRENDATE DATE

MAJPROJ CHAR (6)





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Calling a DB2 Command from REXX

Command goes on the stack with blank line to complete



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Error Handling





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Building an SQL Statement

```
SQLSTMT = ""
                                  /* INITIALIZE SQLSTMT TEXT
SQLSTMT.0 = 3
                                  /* SET NUMBER OF LINES IN SQL STMT */
SQLSTMT.1 = "SELECT TB.DBNAME, TB.TSNAME, IX.CREATOR, IX.NAME"
SQLSTMT.2 = " FROM " | SOURCE_TABLE
SQLSTMT.3 = "WHERE NAME = \" | | HOST_VARIABLE | | "'"
/* BUILD THE SQLSTMT FOR EXECUTION; EACH LINE APPENDED TO THE PRIOR */
DO X = 1 TO SQLSTMT.0; SQLSTMT = SQLSTMT | SQLSTMT.X | | " "; END
ADDRESS DSNREXX "EXECSOL " SQLSTMT
IF SOLCODE \= "0" THEN,
DO
   ERROR NOTE = "QUERY FAILED "
   ERROR AID = " NONE "
   CALL SOLERR RTN EXIT
END
```



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Error Handling



SELECT TB.DBNAME, TB.TSNAME, IX.CREATOR, IX.NAME

FROM SYSIBM.SYSTABLES

WHERE NAME = 'fred'

APPLICATION DIAGNOSTICS

QUERY FAILED

NONE

Shouldn't this be an SQLCODE –206?!







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Error Handling

```
SQLERR RTN DISPLAY:
    "SQL STATEMENT RECEIVEING ERROR FOLLOWS"
Say
                                              Display the offending
   X = 1 TO SQLSTMT.0;Say SQLSTMT.X;END
                                                    Statement
Say
    "APPLICATION DIAGNOSTICS"
    ERROR_NOTE
                        Supplied by the caller
Say ERROR AID
    "DB2 DIAGNOSTICS FULLUW:
Say
    "RESULT OF SQL STATEMENT:"
     'SQLCODE ='SQLCODE
     'SQLERRM = 'SQLERRMC
                                Dump the SQLCA
     SQLERRML='SQLERRML
    'SQLERRP ='SQLERRP
    'SQLERRD ='SQLERRD.1',
                               SQLERRD.2','|| SQLERRD.3',',
               ¦¦ SQLERRD.5'
                                 SQLERRD.6
               'SQLWARN<u>.0'</u>
                                 SQLWARN.1',
                                                 SQLWARN.2'
```





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DSNTIAR?

```
Sau 🎦
  Package SQLCA for DSNTIAR usage
NUMERIC DIGITS 10
                                  /* Allow for big numbers in SQLCA */
SQL ERRD = ""; Do I = 1 To 6; SQL ERRD = SQL ERRD | D2C(SQLERRD.I,4); End
SQL WARN = "";Do I = 0 To 10;SQL WARN = SQL WARN||LEFT(SQLWARN.I,1);End
SQLCA = 'SQLCA  '|D2C(136,4)|D2C(SQLCODE,4)|D2C(70,2),
                                |SQL ERRD||SQL WARN||LEFT(SQLSTATE,5)
   If the length is beyond DSNTIAR possible values (72-240), reset */
If MSG_LEN < 72 | MSG_LEN > 240 Then MSG_LEN = 120 /* Outside scope */
If MSG LEN = "MSG LEN" Then MSG LEN = 120 /* Default msg length 120 */
DB2_ERR_MSG = D2C(MSG_LEN * 12,2) | COPIES(' ',MSG_LEN * 12)
DB2 ERR LEN = D2C(MSG LEN,4)
                    /* Execute DSNTIAR program with SQLCA/Parm data */
Address
Address LINKPGM "DSNTIAR SQLCA DB2 ERR MSG DB2 ERR LEN'
If RC < 5 Then,
            Then Say "DSNTIAR RC-/ Message Area Truncat
```



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User Messages



RFMS0015 - rexxname Failure to connect to database. RC: return code SSID: ssid

Explanation:

Attempt to connect to DB2 Subsystem failed. Return code and DB2 SSID displayed.

Severity:

Severe

Application Action:

Connection to DB2 could not occur. Message is displayed; processing halts.

User Response:

Check to see if the subsystem name is spelled correctly.

Check to see if the DB2 subsystem is active

Check to see if the Rexx is executing on the proper LPAR where the DB2 is supposed to be running.





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Examples...



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Running REXX in Batch

```
//STEP1 EXEC PGM=IKJEFT1B,REGION=3M,
// PARM='CLEANUP DBTHMA1'
//SYSEXEC DD DISP=SHR,DSN=THEMIS.BATCH.REXX
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//SYSTSIN DD DUMMY
//*
```

First word of the PARM is the REXX being run. Next come any arguments expected by the script. SYSEXEC is the location of the script.



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Running REXX in Batch

```
//STEP1 EXEC PGM=IKJEFT1B,REGION=3M,
// PARM='CLEANUP DBTHMA1'
//SYSEXEC DD DISP=SHR,DSN=THEMIS.BATCH.REXX
//SYSTSPRT DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//SYSTSIN DD DUMMY
//*
```

This particular script does the following.

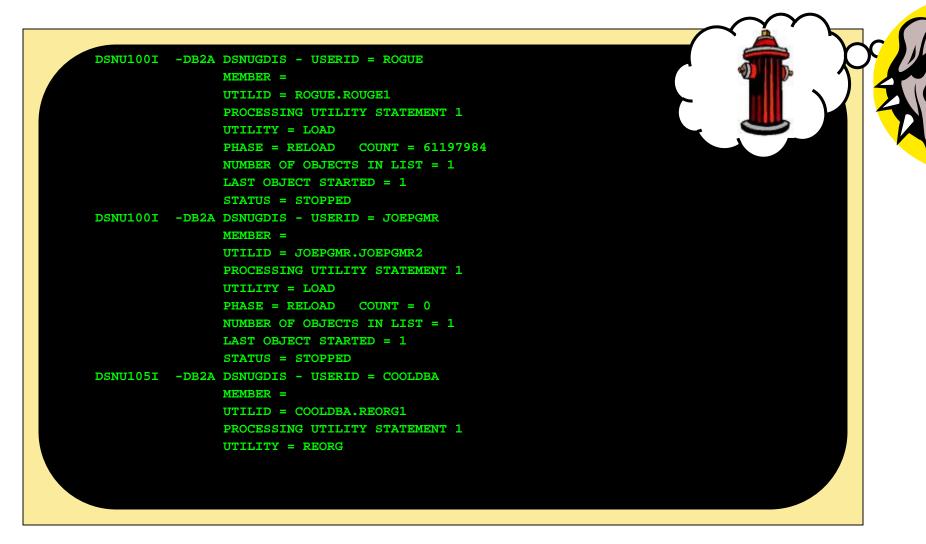
- Deletes any datasets owned by DBTHMA1
- Queries the DB2 catalog and drops any objects owned by DBTHMA1
 - > Tables
 - > Views
 - Stored Procedures





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-DISPLAY UTILITY(*)







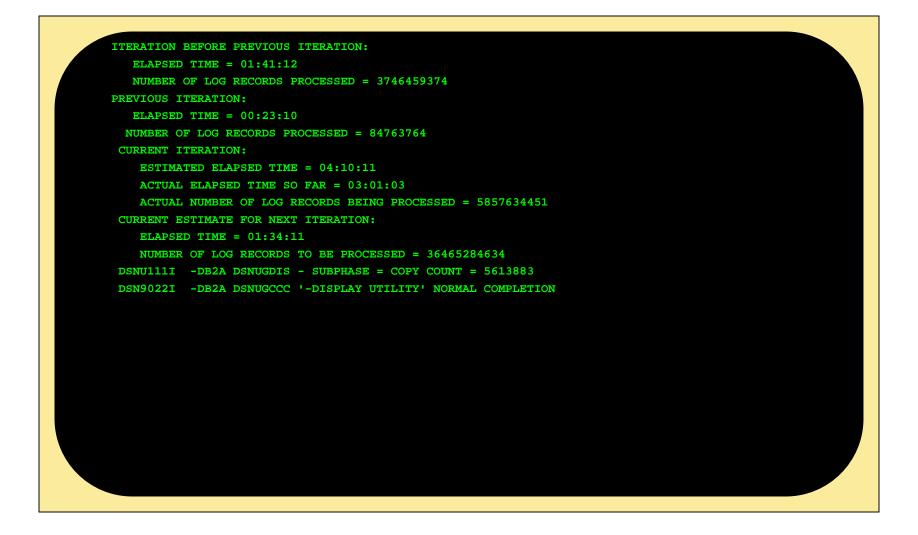
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```
PHASE = BUILD
                               COUNT = 3260046018
               NUMBER OF OBJECTS IN LIST = 1
               LAST OBJECT STARTED = 1
DSNU111I -DB2A DSNUGDIS - SUBPHASE = COPY COUNT = 9044775
DSNU111I -DB2A DSNUGDIS - SUBPHASE = SORTOUT COUNT = 2056453640
DSNU111I -DB2A DSNUGDIS - SUBPHASE = RUNSTATS COUNT = 1720416
DSNU105I -DB2A DSNUGDIS - USERID = RFAZIO
               MEMBER =
               UTILID = REORG001
               PROCESSING UTILITY STATEMENT 1
               UTILITY = REORG
               PHASE = LOG COUNT = 0
               NUMBER OF OBJECTS IN LIST = 1
               LAST OBJECT STARTED = 1
                STATUS = ACTIVE
DSNU347I -DB2A DSNUGDIS -
               DEADLINE = NONE
DSNU384I -DB2A DSNUGDIS -
               MAXRO = DEFER
               LONGLOG = CONTINUE
               DELAY = 1200 SECONDS
DSNU383I -DB2A DSNUGDIS - CURRENT ITERATION NUMBER = 207
WRITE ACCESS ALLOWED IN THIS ITERATION = YES
```





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DB2 Utility Report for DB2 Subsystem ID DBT4 Display Mode: TERSE MOD5
UTILID Mask(*)

REF						STI	ML			
NBR	USERID	UTILID	TYPE	PHASE	COUNT	NBR	CUR	TOT	STATUS	MEMBER
1	ROGUE	ROGUE.ROUGE1	LOAD	RELOAD	61,197,984	1	1	1	STOPPED	
2	JOEPGMR	JOEPGMR.JOEPGMR2	LOAD	RELOAD	0	1	1	1	STOPPED	
3*	COOLDBA	COOLDBA.REORG1	REORG	BUILD	3,260,046,018	1	1	1	ACTIVE	
4*	RFAZIO	REORG001	REORG	LOG	0	1	1	1	ACTIVE	

* - Additional utility info available for display <Enter> to loop, <Quit> to exit, <Help> for more options Commas?!?!





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REF	STMLIST									
NBR	USERID -				COUNT					MEMBER
1		ROGUE.ROUGE	1 LOAD	RELOAD	61,197,984	1	1	1	STOPPED	
2	JOEPGMR	JOEPGMR.JOEPGMF	22 LOAD	RELOAD	0	1	1	1	STOPPED	
3					3,260,046,018					
3	COOLDBA	COOLDBA.REORG	SI SUBPHASE	COPY	9,044,775					
3	COOLDBA	COOLDBA.REORG	SI SUBPHASE	SORTOUT	2,056,453,640					
3	COOLDBA				1,720,416					
4	RFAZIO	REORG0(0				ACTIVE	
4	RFAZIO	REORG0	1 SUBPHASE	COPY	5,613,883					
	ITERATION-	Time	LOG RECOR	RDS						
	205 ACTUA	AL 01:41:12	3,746,459,3	374						
	206 ACTUA	AL 00:23:10	84,763,	764						
	207 ACTUA	AL 03:01:03	5,857,634,4	451 WRITE	ACCESS ALLOWED					
	207 ESTIM	MATE 04:10:11	1	N/A						
	208 FOREC	CAST 01:34:11 3	86,465,284,6	534						
RE	ORG DEADLI	INE = NONE								
MAX	RO = DEFER	R, LONGLOG = CON	TINUE, DELA	AY = 1200	SECONDS					





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A REXX SQL Processor

```
//REXX
           EXEC PGM=IRXJCL, PARM='SQLPROC DB2A'
           DD DISP=SHR, DSN=MY.REXX.EXEC  Your Rexx source lib.
//SYSEXEC
//SYSPRINT DD SYSOUT=*
//SQLSTMT DD *
-- Drop my.index
-- If it's gone already...great; keep going
DROP INDEX MY. INDEX;
--sqltest(-204, Dropped already...ok)
INSERT INTO MY.TABLE VALUES(....);
--sqltest(-803, Dup is ok)
DELETE FROM MY. TABLE WHERE X='Y';
UPDATE MY.TABLE
   SET X='Y'
 WHERE X='N';
```

Note: This is an input script. **DSNTEP2** says +100 on update is GOOD...is it?

The REXX code is not shown!

+100 Update **Bad Conditions:** +100 Delete Good Conditions: -803 Insert -204 Drop



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The "Enforcer" - APPLCHKR



Define Rules

- Check the objects against the rules regularly
- Report warnings
- Correct errors
- Simplify your daily routine

For every table in a given database...

Verify the CREATOR is 'x'

Ensure each table has the 5 required.

Ensure each table has the 5 required aliases: A, B, C, D, E Some tables may have optional alias of Q or P All tables need select granted to authid U1, update to U2 All views on these tables need different security profile



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Dropping a tablespace

Drop a tablespace with 254 parts

Lock DB2 Directory

Lock DB2 Catalog

Lock DataBase Descriptor (DBD)

Can take 10 min each tablespace.

LOCKDOWN 1 Second



Directory



DB2 Catalog





REXX Name: TSDROP

Control card Input: DBNAME.TSNAME Masking allowed

JCL Output: DB2 CMD -STOP DATABASE() SPACE(Tablespace)

DB2 CMD -STOP DATABASE() SPACE(Indexspace)

IDCAMS DELETE Tablespace Part x IDCAMS DELETE Indexspace Part x

SQL DROP TABLESPACE



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Reference

DB₂

????-???? DB2 for OS/390 REXX Language Support *Version 5 (1999)***SQLDA IS WRONG!!!

SC27-8859 DB2 12 for z/OS SQL Reference SC27-8845 DB2 12 for z/OS Application Programming and SQL Guide



SA-22-7790 z/OS TSO/E REXX Reference

Redbook

SG24-6465 DB2 UDB for z/OS Version 8 Performance Topics SG24-6108 DB2 UDB Server for OS/390 Version 6 Technical Update SG24-6418 DB2 for z/OS and OS/390 : Squeezing the Most Out of Dynamic SQL

IDUG Presentation

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