



The Lawson GEN database

About Red Three

- **You've made a large investment in your system. Your transactions process ok. But can you get the reports you need to run your business?**
- **Complex Financials and H/R**
- **Lawson, Oracle, and Legacy Systems**
- **Other Lawson Technical and Application consulting to support our primary mission.**

What is the GEN Database?

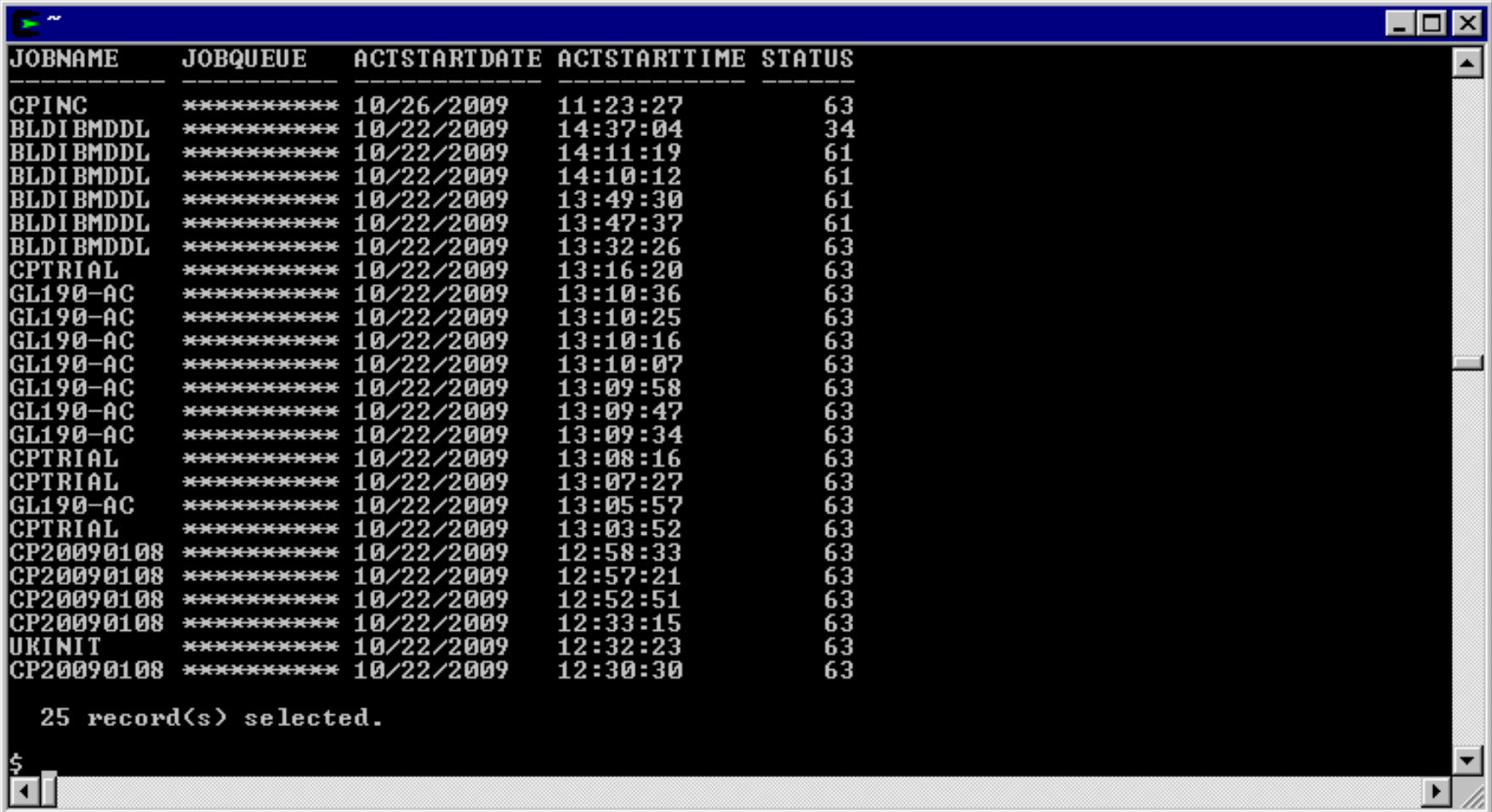
- **GEN is the metadata that Lawson runs on**
- **What's in GEN**
 - **Controlling jobs**
 - **Keeping track of applications**
 - **Maintaining security**
 - **Internal key names**
 - **Anything that Lawson needs to run.**

Job Scheduler

Active Jobs		Waiting Jobs		Completed Jobs		
<input type="checkbox"/>	Job Name	Parameters	Job Queue	Start Date	Stop Date	Status
<input type="checkbox"/>	CPINC	GL293	*****	10/26/2009 11...	10/26/2009 11...	Normal Completion
<input type="checkbox"/>	BLDIBMDDL	bldibmddl	*****	10/22/2009 14...	10/22/2009 14...	Recovery Deleted
<input type="checkbox"/>	BLDIBMDDL	bldibmddl	*****	10/22/2009 14...	10/22/2009 14...	Recovery Deleted
<input type="checkbox"/>	BLDIBMDDL	bldibmddl	*****	10/22/2009 13...	10/22/2009 13...	Recovery Deleted
<input type="checkbox"/>	BLDIBMDDL	bldibmddl	*****	10/22/2009 13...	10/22/2009 13...	Recovery Deleted
<input type="checkbox"/>	BLDIBMDDL	bldibmddl	*****	10/22/2009 13...	10/22/2009 13...	Normal Completion
<input type="checkbox"/>	CPTRIAL	GL291	*****	10/22/2009 13...	10/22/2009 13...	Normal Completion
<input type="checkbox"/>	GL190-AC	GL190	*****	10/22/2009 13	10/22/2009 13	Normal Completion

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Dump of GEN file - QUEUEDJOB



JOBNAME	JOBQUEUE	ACTSTARTDATE	ACTSTARTTIME	STATUS
CPINC	*****	10/26/2009	11:23:27	63
BLDI BMDDL	*****	10/22/2009	14:37:04	34
BLDI BMDDL	*****	10/22/2009	14:11:19	61
BLDI BMDDL	*****	10/22/2009	14:10:12	61
BLDI BMDDL	*****	10/22/2009	13:49:30	61
BLDI BMDDL	*****	10/22/2009	13:47:37	61
BLDI BMDDL	*****	10/22/2009	13:32:26	63
CPTRIAL	*****	10/22/2009	13:16:20	63
GL190-AC	*****	10/22/2009	13:10:36	63
GL190-AC	*****	10/22/2009	13:10:25	63
GL190-AC	*****	10/22/2009	13:10:16	63
GL190-AC	*****	10/22/2009	13:10:07	63
GL190-AC	*****	10/22/2009	13:09:58	63
GL190-AC	*****	10/22/2009	13:09:47	63
GL190-AC	*****	10/22/2009	13:09:34	63
CPTRIAL	*****	10/22/2009	13:08:16	63
CPTRIAL	*****	10/22/2009	13:07:27	63
GL190-AC	*****	10/22/2009	13:05:57	63
CPTRIAL	*****	10/22/2009	13:03:52	63
CP20090108	*****	10/22/2009	12:58:33	63
CP20090108	*****	10/22/2009	12:57:21	63
CP20090108	*****	10/22/2009	12:52:51	63
CP20090108	*****	10/22/2009	12:33:15	63
UKINIT	*****	10/22/2009	12:32:23	63
CP20090108	*****	10/22/2009	12:30:30	63

25 record(s) selected.

\$



Jobs in Recovery - QUEUEDJOB

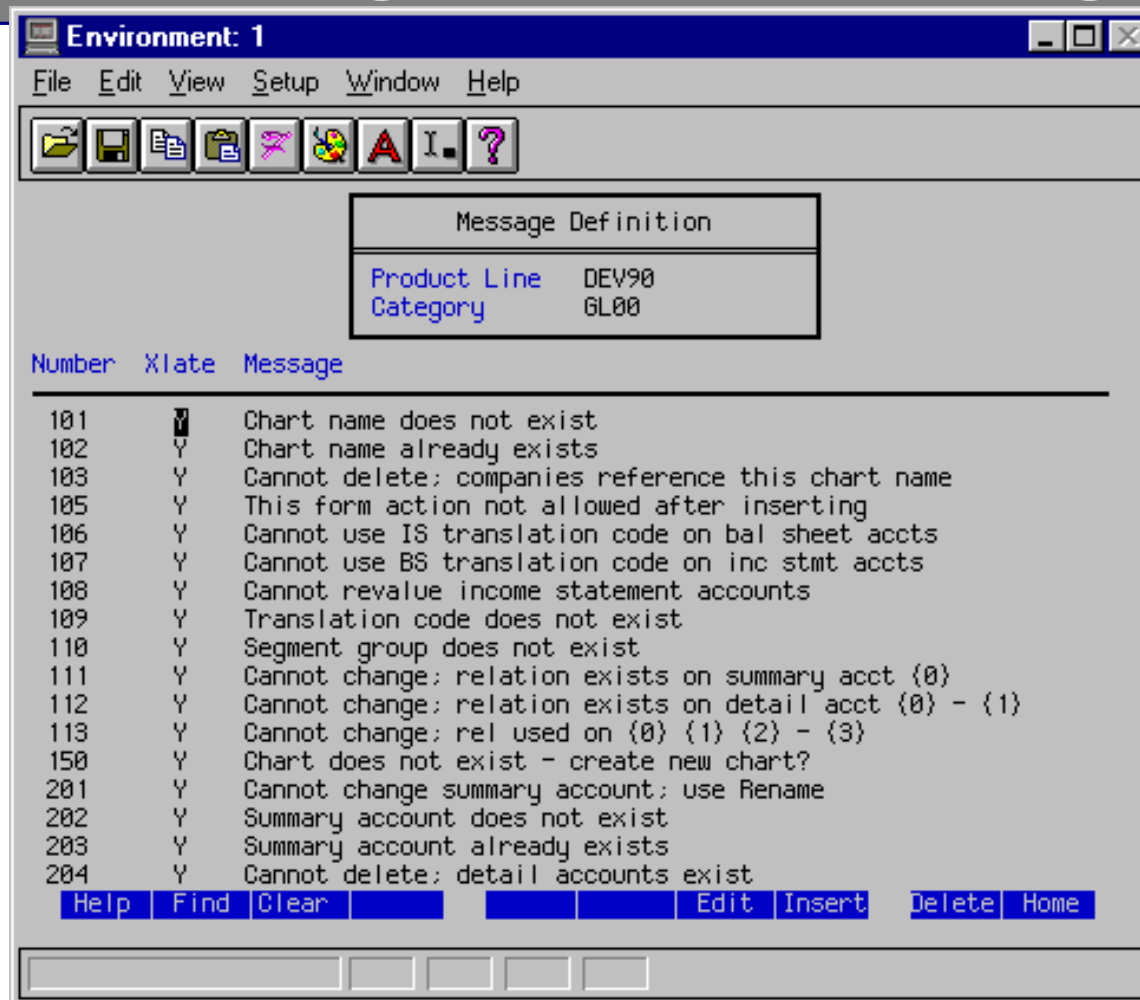
Jobs in Recovery - QUEUEDJOB

**Select username, jobname, stopdate, processid, from
gen.queuedjob where status = 34**

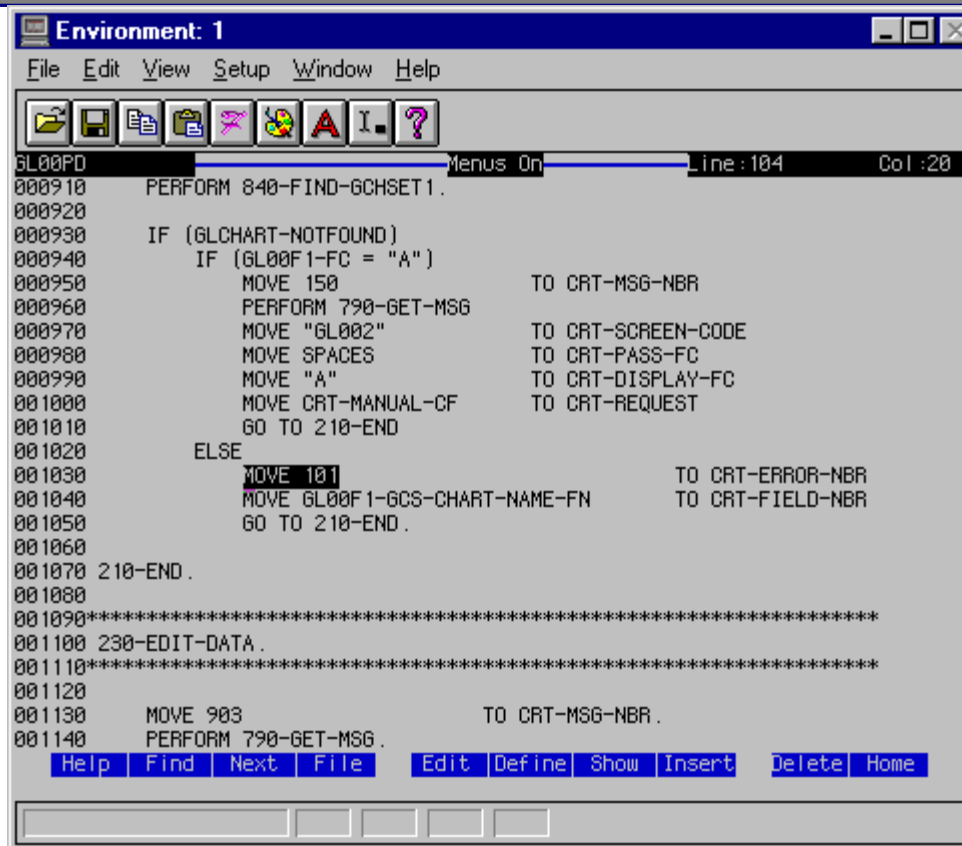
Error Messages - CRTERRMAP



msgmnt – Lawson Program



COBOL – where message number is used



```
Environment: 1
File Edit View Setup Window Help
GL00PD
000910 PERFORM 840-FIND-6CHSET1.
000920
000930 IF (GLCHART-NOTFOUND)
000940     IF (GL00F1-FC = "A")
000950         MOVE 150 TO CRT-MSG-NBR
000960         PERFORM 790-GET-MSG
000970         MOVE "GL002" TO CRT-SCREEN-CODE
000980         MOVE SPACES TO CRT-PASS-FC
000990         MOVE "A" TO CRT-DISPLAY-FC
001000         MOVE CRT-MANUAL-CF TO CRT-REQUEST
001010         GO TO 210-END
001020     ELSE
001030         MOVE 101 TO CRT-ERROR-NBR
001040         MOVE GL00F1-6CS-CHART-NAME-FN TO CRT-FIELD-NBR
001050         GO TO 210-END.
001060
001070 210-END.
001080
001090*****
001100 230-EDIT-DATA.
001110*****
001120
001130     MOVE 903 TO CRT-MSG-NBR.
001140     PERFORM 790-GET-MSG.
Help Find Next File Edit Define Show Insert Delete Home
```

CRTERRMAPP – where messages are stored

```
$ db2 "select * from gen.crterrmapp where message like '%Chart name does not exist%'"
```

PRODUCTLINE	LANGUAGE	TARGETMACH	TRANCODE	ERRORNBR	MESSAGE
PROD90		0	GL110	168	Chart name does not exist
PROD90		0	GL199	115	Chart name does not exist
PROD90		0	GL1N0	100	Chart name does not exist
PROD90		0	EDAC	150	Chart name does not exist
PROD90		0	GLCHR	100	Chart name does not exist
PROD90		0	GL00	101	Chart name does not exist
PROD90		0	GL02	101	Chart name does not exist
PROD90		0	GL02	201	Chart name does not exist
PROD90		0	GL02	301	Chart name does not exist
PROD90		0	GL02	601	Chart name does not exist
PROD90		0	GL03	101	Chart name does not exist
PROD90		0	GL03	350	Chart name does not exist
PROD90		0	GL10	200	Chart name does not exist
PROD90		0	GL124	208	ERROR - Chart name does not exist
PROD90		0	GL20	301	Chart name does not exist
PROD90		0	GL200	100	Chart name does not exist

```
16 record(s) selected.
```

rngdbdump may be used

```
/home/lawson>
/home/lawson>
/home/lawson>
/home/lawson>
/home/lawson> rngdbdump -tc gen crterrmap | grep 'Chart name does not exist' >
"PROD90" ... "EDAC",150,"Chart name does not exist",,1
"PROD90" ... "GL00",101,"Chart name does not exist",,1
"PROD90" ... "GL02",101,"Chart name does not exist",,1
"PROD90" ... "GL02",201,"Chart name does not exist",,1
"PROD90" ... "GL02",301,"Chart name does not exist",,1
"PROD90" ... "GL02",601,"Chart name does not exist",,1
"PROD90" ... "GL03",101,"Chart name does not exist",,1
"PROD90" ... "GL03",350,"Chart name does not exist",,1
"PROD90" ... "GL10",200,"Chart name does not exist",,1
"PROD90" ... "GL110",168,"Chart name does not exist",,1
"PROD90" ... "GL124",208,"ERROR - Chart name does not exist",,1
"PROD90" ... "GL199",115,"Chart name does not exist",,1
"PROD90" ... "GL20",301,"Chart name does not exist",,1
"PROD90" ... "GL200",100,"Chart name does not exist",,1
"PROD90" ... "GLCHR",100,"Chart name does not exist",,1
"PROD90" ... "GLINQ",100,"Chart name does not exist",,1
/home/lawson>
-
```

Lawson Program - pgmdef


Program Definition

Define Program

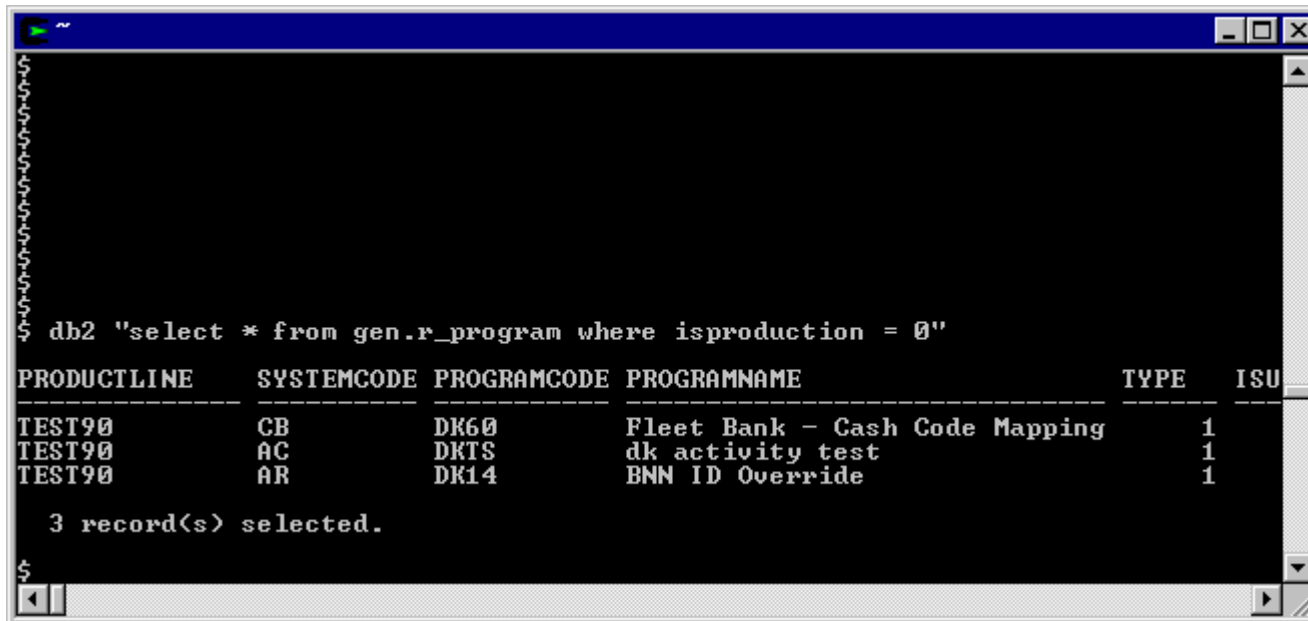
Product Line	TEST90
System Code	AC
Program Code	AC00
Program Type	Online Update
Program Name	Activity Group
Allow Generation For	None
In Production On	Unix
Cluster Node	
Run Type	Four G/L
Number Of Users Per Process	
Can Be Accessed Via INVOKE	Yes
Executable	Timeout

AC108	Structure Reorganization	Batch Update
AC11	Copy Activity	Online Update
AC110	Activity Copy	Batch Update
AC112	Mass Activity Status Change	Batch Update

Help Clear Select Copy Home



R_PROGRAM – programs not in production



```
$ db2 "select * from gen.r_program where isproduction = 0"
PRODUCTLINE   SYSTEMCODE  PROGRAMCODE  PROGRAMNAME                                     TYPE  ISU
-----
TEST90        CB          DK60         Fleet Bank - Cash Code Mapping                 1
TEST90        AC          DKTS         dk activity test                               1
TEST90        AR          DK14         BNN ID Override                               1

  3 record(s) selected.
$
```


Users – from R_USER

```

$ db2 "select * from gen.r_user"

```

USERNAME	SECCLASS	ADMCLASS	PRINTERNAME	LOCALE	SECOFFICER	CLASSSUP	PRODUCTLINE	CRTDSPOPT	HILITERE
lawson	ADMIN		Acct-HP		1	1		0	
lawadm	ADMIN		Acct-HP		1	1		0	
ajacobso	ADMIN		Acct_Main		1	1		0	
	ADMIN		Acct_Main		1	1		0	
	USER				0	0		0	
	USER		Acct-HP		0	0		0	
	USER		Acct-HP		0	0		0	
	ACCTMGR		Acct-HP		0	0	TEST90	0	
	USER		Acct_Main		0	0		0	
	ADMIN		Acct_Main		0	0		0	
	USER		Acct_Main		0	0		0	
	USER		Acct_Main		0	0		0	
	USER				0	0		0	
	USER				0	0		0	
	USER		Acct-HP		0	0		0	
	ADMIN		Acct-HP		0	0		0	
	ADMIN				1	1		0	
	ADMIN				0	0		0	
	ADMIN		Acct-HP		0	0		0	
	USER		Acct-HP		0	0		0	
	USER		Acct-HP		0	0		0	
	QAUSER		Acct-HP		0	0		0	
	USER		Acct-HP		0	0		0	
	USER				0	0		0	
	CO5USER		Acct_Main		0	0		0	
	USER		Acct_Main		0	0		0	
	USER		Acct_Main		0	0		0	
	FULLYOPEN		Acct-HP		1	0		0	
	LONDON		Acct_Main		0	0		0	
	USER		Acct_Main		0	0		0	
	USER		Acct_Main		0	0		0	
	ACCTMGR		Acct-HP		1	0		0	

35 record(s) selected.

Ideas

- **Script to compile a program**
 - **What system is the program in?**
- **Script to backup/copy a program**
 - **Source files by system code; workfile(s); pgmdef entry**
- **Script to email about jobs in recovery, changes to security**
- **Script to solve world hunger**

Wrapping Up

- **GEN – The Lawson “gold mine”**
 - **Maintenance scripts**
 - **Alert scripts**
 - **No-nonsense data dumps**
- **Query with SQL (9.x only) and/or rngdbdump**
- **For update, use the appropriate dump/load metadump/metaload utilities**
- **TMTOWTDI.**