

JRH DB2I2*

For DB2™/OS390 & zOS

Quick Reference

Version 7.2

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How DB2I2 works

DB2I2 is a superset of ISPF edit command. It works just like all the other ISPF commands. To direct DB2I2 to perform a task, you do the following in sequence:

- Enter line object(s) on edit line
- Enter DB2I2 command on command line
- Select line object(s) and press HOTKEY (Use ISPF KEYS command to define one of the FKEY to DB2I2 as HOTKEY)

```
EDIT JD.DB2I2.WKBENCH Columns 00001 00072
Command ==> DB2I2 command scroll ==>CSR
=COLS> -----1-----2-----3-----4-----+
SS'''''' line object
SS'''''' line object
```

- Use ? to select a line object and press HOTKEY to display HELP information of the select line object

```
EDIT JD.DB2I2.WKBENCH Columns 00001 00072
Command ==> press HOTKEY scroll ==>CSR
=COLS> -----1-----2-----3-----4-----+
? '''''' line object
```

DB2I2 Line Object

Line Object Definition

- Line object consists of two parts: line object abbreviation and line object detail separated by a blank.
- Line object can be entered any where on your edit line. However, no other information allowed to be entered before line object abbreviation.
- Line object detail can be a full name or a DB2 wild card name. For example: Q.PROFILES or Q.%.
- ‘—’ on column 1 and 2 indicates the line is a comment line.
- ‘—’ on any column within SQL block for DB2I2 RUN command indicates that all the information from ‘—’ to the end of the line will be treated as comment.

How to select line object

- Use command option **IDSN**=‘line.object.dsname’ to read in the line objects from the ‘line.obj.dsname’ file.
- Use a new ISPF line command **S** to select single line object.
- Use a new ISPF block line command **SS** to select a block of line objects.
- If there are no S or SS line command entered, the current **cursor positioned** line object is selected.
- If none of the above, then the **first displayed line object** is selected.

Line Objects Abbreviation and Description

| | | |
|-----------|--|--------------------------------|
| AC | Active log line | |
| AI | ixcreator.ixname Partno row-count key-card | (Adjust Index part line) |
| | | (Alias) |
| AL | creator.name | |
| AR | Archive log line | |
| AT | dbname.tsname partno tcreator.tbname row-count %compressed | (Adjust Table space Part line) |
| | | (Bufferpool) |
| BP | buffername | |
| CI | catalog table insert line | |
| CO | colname | (Column) |
| CL | collid | (Collection) |
| CP | check point line | (Check Point line) |
| CU | catalog table update line | |
| DB | dbname | (Database) |
| DM | planname.dbrm | (DBRM) |
| DS | datasetname | (db2 vsam dataset name) |
| DT | schema.name | (Distinct Type - V6 or above) |
| FU | schema.name | (Function name – V6 or above) |
| GV | &var=value | (Global Variable line) |
| IC | indexcolumn | (Index Column) |
| IP | creator.name partno | (Index Part) |
| IX | creator.name | (Index) |
| JI | jobname.jobnum | (Job Information) |
| PG | location.collid.name.version | (Package) |
| PL | planname | (Plan) |

| | |
|-----------|--|
| RI | Parent_creator.Parent_tname.Child_creator.Child_tname (Referential Integrity) |
| RL | Archive log RBA line |
| SC | [ssid[\loc].]dbname.tsname [ssid[\loc].]dbname.tsname [part#] |
| SG | stogroupname (StoGroup) |
| SH | schema (Schema name – V6 or above) |
| SP | schema.name (Stored Procedure name – V6 or above) |
| SY | creator.name (Synonyms) |
| TB | creator.name (Table) |
| TP | dbname.tsname partno (Table Partition) |
| TR | schema.name (Trigger name – V6 or above) |
| TS | dbname.tsname (Tablespace) |
| US | username (User) |
| VL | volume (Volume) |
| VW | creator.name (View) |
| XC | [ssid[\loc].]ixcreator.ixname [ssid[\loc].]ixcreator.ixname [part#] |

Global line object options

<NEWJOB> enter <NEWJOB> token anywhere on the line object to signal the beginning of a new job for utility generation.

%=### specify %=### Percentage adjustment from the current allocation on the edit line after the line object to override the size adjustment.

ALLOC=(alloc_type,primary,secondary) specify space allocation for DB212 command result. Specify alloc_type: CYL-for cylinder, TRK-for track, and PAGE for page. Specify primary and secondary for primary and secondary allocation, They must be both numeric. Specify this option on the edit line after the line object to override the space allocation.

DB212 Command

SYNTAX: db2i2-command [command options]

Global command options

These command options can be used with most of the DB212 command.

%=### ### % adjustment from the current space allocation. Use sub-parameter CYL or TRK to roundup to cylinder or track boundary

APPEND output append to the existing sequential file

DSPRE=DatasetPrefix instruct DB212 to use the DatasetPrefix as the prefix for the generated DB2 utility JCL work file name.

ERROR(CONTINUE|SKIP #) continue process next DB212 command or skip # commands in batch mode if there is an error during the current command process.

IDD='line-object.input.ddname' direct DB212 to read the specified file ddname in batch mode process as the line object input source.

IDSN='line-object.input.dsname' direct DB212 to read the specified file as the line object input source. Specify IDSN=*memname let you use the input from DB212 system library. For example, IDSN=*GENAT allows you reuse the query deliver with DB212 to generate AT line objects.

JOB#=### specify the start job number for generated JCL with ## option when using it with JOBCARD.

JOBNM=jobnm## specify JOB name override with ## substitute option. This option can also used with ODSN=odsn(*) option to decide the output PDS member name.

JOBCARD=N directs DB212 to disable the generation of JOBCARD for BATCH or any utility generation commands.

MACRO(your.ed.macro) Use this option to customize your output JCL generated from QUIESCE, RECOVER, REBUILD, COPY, REORG, LOAD, REPAIR, MODIFY, CHECK, REPORT, RUNSTATS, DSN1COPY, DSN1PRNT and DSCOPY. (for Db2 V7 or above only)

NEWJOB=### for any job generation. Use this option to signal a new job for ### of job steps.

NOTFOUND (CONTINUE|SKIP #) skip # command lines from the current DB212 Command or continue process next command when you have RECORD NOT FOUND in Batch mode for the following commands: AL, TB, VW, SY, TS, IX, PL, PG, RI, BIND, REBIND, PACKIT, FREE, SELECT, INSERT, UPDATE, DELETE, DCLGEN, SELPATHU, RUN

ODSN='output.dsname' direct DB212 to store output into the specified file.

ODSN='output.dsname(*)' direct DB212 to store output into the specified PDS file where the member name is determined by the either the job name from job card or by JOBNM command option. This option can be used with all DB212 utility command such as COPY, REORG, RECOVER, REBUILD, LOAD and UNLOAD.

SKIP=(#1,#2) or SKIP(#1) skip #1 command lines from the current DB212 Command line #2 times in batch mode. The current command must be processed successfully before skip will happen.

0 is the default value for #1, which means no Command lines are skipped. Specify -1 repeat the current command. Specify -2 to process previous command. If #1 is greater than end of the command line, Job will end after current command.

#2 is the number of time to skip. The default is unlimited.

SQLID=sqlid generate SET CURRENT SQLID to specified sqlid before any of applicable generated script output. For example, MIGR or GRANT commands.

STEP#=## assign step number for the DB212 generated output JCL. The step number generated will be ### + 1

T=N instruct DB212 not to print any of the title or heading/footer information for the output

WKSP=# instruct DB212 to override the default output file allocation from CYL,1,1 to CYL,#,1

Comment and continuation for batch command

'—' on column 1 and 2 indicates the command line is a comment line in the batch process.

'+' on the last position of a DB212 command line indicates the command will be continue on to the next command line.

Global Variable and Host Variable

Global Variable

- Defined with SETG command
- Used with any DB212 command when command options is too long
- Can contain host variables

Host Variable

- Used with BATCH ICMD and RUN command to substitute host variables in predefined set of DB212 command or SQL.

When use Global Variable with Host Variables, the host variable name must not be the same as global variable name.

DB212 Command Detail

B-Batch O-Online BO-Batch and Online
MO-Multiple line Object support
MT-Multiple line object Type support
WC-Wild Card % support

_____ Drill down from the selected line object. When you position you cursor on a non-blank dataset name and select the line with default (no S specified), it also allows you to Edit or Browse the positioned dataset.

Syntax: [HOSTVAR can be used for PG or DM line object only to display host variable information]

Line objects allowed: DB, TS, TB, AL, SY, VW, IX, PG, PL, SG, DM, TP, IP, DS, RI,

(DT, TR, SP, FU, SH for V6 or above)

Append stmt# to PG or DM line object to display only the Specified stmt# from the selected PG or DM

BO-MO-MT-WC

AL Generate Alias line objects from the selected line object.

Syntax: **AL**
Line objects allowed: [TB](#), [VW](#), [PG](#), [PL](#)
BO-MO-MT-WC

ALTER Generate ALTER DDL for the selected line object.

Syntax: **ALTER**
Line objects allowed: [DB](#), [TS](#), [TB](#), [IX](#), [SG](#)
([SP](#), [FU](#) for V6 or above)

O-MO-MT

AUTH Display Authorization information for the selected line objects.

Syntax: **AUTH** [[GRANTOR](#)|[GRANTEE](#)]
Line objects allowed: [AL](#), [BP](#), [CL](#), [DB](#), [PG](#), [PL](#), [SG](#), [TS](#), [TB](#), [US](#), [VW](#)
([DT](#), [SH](#), [FU](#), [SP](#), [TR](#) for V6 or above)

BO-MO-MT-WC

BATCH Generate BATCH JCL to run DB2I2 commands. Majority of the DB2I2 command can be executed through batch mode, so that you can free your terminal for the long running command, or schedule it to run during the preferred time. Use **ICMD** option to process DB2I2 command or prepared JCL from external file. You can specify **Host variable** substitution **&var=** with **ICMD** option. Specify **ICMD=*memname** to retrieve predefined commands from DB2I2 system library. Specify **JCL=N** option to disable the jobcard generation for prepared JCL. For example, **ICMD=*TUNEPG** generate commands to tune a db2 package. By default, DB2I2 process one command for all selected line objects. By using the **CLI** option, you have flexibility to process files before and after a call to DB2I2. Uses **CLI=MC** command option to process multiple DB2I2 commands against each line object one at a time. Uses **CLI=UTIL** command option to generate DB2 utility one line object at a time with option to automatically submit it. Uses **CLI=clidsn(mem)** option to process your own REXX or CLIST CLI interface. If you use this option, the clidsn should be Fixed 255 bytes long. Use **IDSN=** and **ODSN=** to direct the input and output file name for the BATCH command. When you specify **ODSN=** option, DB2I2 generates JCL and stores them in the ODSN specified.

Use **ODSN*=** if you want to assign the output file name to be used for generated db2i2-command.
When line object is **greater than 80 bytes long**, save the line objects in a file and use **IDSN=*DUMMY** and **IDSN*=line.object.filename** to assign line object input file, By doing so, DB2I2 will not expand the input line objects. Please refer to MCCLI and UTILCLI two sample CLI routine in the LIB dataset. SSID DD contains the following:

SSID\Connection-Location db2-version SYSIBM [Restatr no]
DB2I2CMD DD contains all the DB2I2 command lines. You can enter a '+' to continue a DB2I2 command line if it is too long.
LINEOBJ DD contains the default selected line object lines.
Syntax: **BATCH** db2i2-command command-option or
BATCH ICMD=db2i2-command.input.dataset or
BATCH ICMD=prepared-jcl-file [JCL=N]

BO-MO-MT

BIND Generate DB2 BIND command for the selected package or plan.

CL=USER assigns your TSOID as collection. **O=USER** assigns your TSOID as owner.
Syntax **BIND** [**CL=collection**] [**O=owner**] [**Q=qualifier**] [**MEM=***] [**GRANT=Y**]
Line objects allowed: [PG](#), [PL](#)
BO-MO-MT-WC

BIND COPY Generate DB2 BIND COPY commands against selected package. **CL=USER** assigns your TSOID as collection. **O=USER** assigns your TSOID as owner

Syntax: **BIND COPY** [**CL=collection**] [**O=owner**] [**Q=qualifier**] [**GRANT=Y**]
[**OPTIONS**(**COMPOSITE**|**COMMAND**) v7 or above]
Line objects allowed: [PG](#)
BO-MO-MT-WC

CHECK Generate DB2 CHECK DATA or CHECK INDEX utility JCL for selected table space or index.

Syntax: **CHECK**
[**LISTDEF=listdef.dsname**(**patt***)] [**TEMPLATE=template.dsname**]
[**OPTIONS=options.dsname**] v7 or above
Line objects allowed: [TS](#), [IX](#), [TP](#), [IP](#)
BO-MO

COAUTH Display Column Authorization information for the selected line objects.

Syntax: **COAUTH** [[GRANTOR](#)|[GRANTEE](#)]
Line objects allowed: [AL](#), [TB](#), [US](#), [VW](#)
BO-MO-MT-WC

CONNECT(location) and **CONNECT(RESET)** connect to remote location or reset connection. Issue **CONNECT(?)** to display all location information

Syntax: **CONNECT**(location name)
CONNECT(RESET)

BO

COPY Generate DB2 IMAGE COPY or MERGCOPY utility JCL for selected table space. If 'copy.parm.dsname' is specified, the copy option will be generated based on the 'copy.parm.dsname'.

Syntax: **COPY** [***copy.parmutil.dsname**]
[**LISTDEF=listdef.dsname**(**patt***)] [**TEMPLATE=template.dsname**]
[**OPTIONS=options.dsname**] v7 or above
Line objects allowed: [TS](#), [TP](#)
[IX](#), [IP](#) for db2 v6 or above

BO-MO-MT

COPYAUTH Generate GRANT DCL for specified DB2 user. This command is useful to copy all the authorizations from one DB2 user to another.

Syntax: **COPYAUTH** [[GRANTOR](#)|[GRANTEE](#)] [**TO=userid**]
Line objects allowed: [US](#)
BO-MO-MT-WC

CPY2CPY In V7 or above, generates COPYTOCOPY utility JCL to make copy of image copy offline. If FROMCOPY option is selected, use **ICGEN=#** at end of the line object to specify generation of full image copy to be used as input to CPY2CPY. # if specified must be <= 0, 0 means the most current image copy is used. You can also use **ICDATE=YYMMDD** at end of the line object to specify the full image copy from specific date is used as input to the CPY2CPY. **TEMPLATE** command option is required for CPY2CPY command.

Syntax: **CPY2CPY** **TEMPLATE=cpy2cpy.template.dsname**
[**LISTDEF=listdef.dsname**(**patt***)] [**OPTIONS=options.dsname**]
Line objects allowed: [TS](#), [TP](#), [IX](#), [IP](#)
BO-MO-MT

CREATE Generate CRAETE DDL for the selected line object.

Syntax: **CREATE**
Line objects allowed: [AL](#), [DB](#), [DT](#), [FU](#), [IX](#), [SG](#), [SP](#), [SY](#), [TB](#), [TR](#), [TS](#), [VW](#)
BO-MO-MT

CURSORD Generate DECLARE CURSOR embedded SQL statement for the selected line object.

Syntax: **CURSORD**
Line objects allowed: [TB](#), [AL](#), [SY](#), [VW](#)
BO-MO-MT

DBAUTH Display Database Authorization information for the selected line objects.

Syntax: **DBAUTH** [[GRANTOR](#)|[GRANTEE](#)]
Line objects allowed: [DB](#), [US](#)
BO-MO-MT-WC

DBDSIZE Display Database DBD size and issues warning for any Database size grater than threshold. Default is 300000 bytes.

Syntax: **DBDSIZE** [**threshold**]
Line objects allowed: [DB](#)
BO-MO

DB2CMD Issue DB2 Command using the line objects specified. Use **LIST** option to list all available DB2 commands.

Syntax: **DB2CMD** [**LIST**]
Line objects allowed: [DB2 command lines](#)
BO

DCLGEN Generate DB2 DCLGEN commands for the selected Table, Alias or View.

Syntax: DCLGEN

Line objects allowed: [TB](#), [AL](#), [VW](#), [SY](#)

BO-MO-MT-WC

DDL Generate DDL for the selected line objects. Specify %=### option to change space allocation based on ###% of current allocation. ALLOC option overrides the space allocation. Specify SQLTERM in DB2 V6 to generate DDL with ? instead of ; as the SQL terminator. TR=N is the default, which will not generate Trigger information for a TB line.

Syntax: DDL [%=### [CYL|TRK|_]] [ALLOC=(alloc_type,pri,sec)]
[SQLTERM(?) for V6 or above to specify sql terminator]
[TR=N|Y]

Line objects allowed: [AL](#), [DB](#), [TS](#), [TB](#), [IX](#), [SY](#), [VW](#), [SG](#), [RI](#)
[\(DT](#), [SP](#), [FU](#), [TR](#) for V6 or above)

BO-MO-MT

DELETE Generate SQL DELETE statements for the selected table, alias, synonyms or view.

Syntax: DELETE [MAP='delgen dsn']

Line objects allowed: [TB](#), [AL](#), [SY](#), [VW](#)

BO-MO-MT

DISPLAY Issue any valid DB2 -DISPLAY command option w/o line object or any -DSIPLAY options except DB and SP with DB,TS,TP,IX,IP. Use EDIT=Y option to edit the DISPLAY result.

Ex. DISPLAY DB(MYDB) RESTRICT LIMIT(*) EDIT=Y TSIX

Syntax: DISPLAY [DB2 display command option except DB and SPACE option]
[TSIX option to return TP or IP line objects] [EDIT=Y]

Line objects allowed: [DB](#), [TS](#), [IX](#), [TP](#), [IP](#), [BP](#)

BO-MO-MT

DSADJ Generates JCL to adjust the space allocation for the selected line objects. Use %=#### option to adjust the space ### % from the current allocation. MOVE=YES option generates DSN1COPY step to adjust the VSAM linear dataset.

Specify ALLOC option to override the space allocation:

Alloc_type can be CYL, TRK, PAGE; if omits alloc_type, DB212 uses device type information from ICF catalog as default.

Pri can be HIARBA, HIURBA or a numeric number. If omits pri, DB212 use primary allocation information from ICF catalog as default.

Sec should be a numeric number. If omits sec, DB212 use secondary allocation information from ICF catalog as default.

Specify MAXSZ option to set the max size allocation. If the calculated primary size is over the pri specified in the MAXSZ, the space allocation will be adjusted based on the values specified in the MAXSZ. Use OVRD option to specify REORG OVERRIDE table. DB212 create an INSERT SQL to insert the TP or IP line into the REORG OVERRIDE table.

Syntax: DSADJ [%=### [CYL|TRK|_]] [MOVE=YES|NO]

[ALLOC=(alloc_type,pri,sec)] [MAXSZ=(type,pri,sec)]

[OVRD=reorg_override_table]

Line objects allowed: [TP](#), [IP](#)

BO-MO-MT

DSCOPY Generates DSN1COPY utility JCL to copy Tablespace or Indexspace with OBID translation extracted. ICOPY options allows imagecopy be used Y-Local Primary, LB-Local Backup, RP-Remote Primary, RB-Remote Backup, N-No imagecopy (vsam to vsam). Recover Index is also generated unless you specify line object option RCVRIX=N or RBLDIX=N to skip the recover index step generation. If ICOPY=Y, LB, RP, RB command option is selected, you can use line object option ICGEN=# to specify generation of full image copy to be used as input to DSCOPY. # if specified must be <= 0, 0 means the most current image copy is used. You can also use ICDATE=YYMMDD to specify the full image copy from specific date is used as input to the DSCOPY. When ICOPY=N is specified, use NOSTOPS to skip STOP TS for source TS. When rebuild index step is generated, use SORTKEYS to generate SORTKEYS option for Rebuild Index step.

Syntax: DSCOPY [ICOPY=Y|N|LB|RP|RB] [NOSTOPS] [SORTKEYS]

Line objects allowed: [SC](#), [XC](#)

BO-MO-MT

DSNJU004 Interface to DSNJU004 print log map interactively. Use BSDS= option to read the BSDS information directly from specified file. This is useful if DB2 subsystem is not up and running.

Syntax: DSNJU004 [BSDS=bsds.dname]

Line objects allowed:

BO

DSNTEP2 Interface to DSNTEP2 interactively.

Syntax: DSNTEP2 [SQLTERM(?) for v6 or above only]

Line objects allowed: [SQL blocks](#)

BO-MO

DSNTIAD Interface to DSNTIAD interactively.

Syntax: DSNTIAD [RC0] [SQLTERM(?) for v6 or above only]

Line objects allowed: [SQL blocks](#)

BO-MO

DSNTIAUL Generate DSNTIAUL utility JCL for the selected table, view, alias or SQL blocks (Use SQL option). SYSREC output can either go to disk as default (DEV=D) or send to tape with DEV=T option. Add SYSREC= and SYSPUNCH= at end of the line object to assign the SYSPUNCH and SYSREC output dataset name.

Syntax: DSNTIAUL [DEV=D|T] [SQL]

Line objects allowed: [TB](#), [VW](#), [AL](#), [SY](#), [SQL blocks](#) or

[TB creator.name](#) [SYSREC=sysrec.dsn] [SYSPUNCH=syspunch.dsn]

BO-MO-MT

DSN1COPY Generates DSN1COPY utility JCL for the selected line objects.

Syntax: DSN1COPY

Line objects allowed: [TS](#), [IX](#), [TP](#), [IP](#)

O-MO-MT

DSN1LOGP Generates DSN1LOGP utility JCL for the selected line objects. Use BSDS= option to read the BSDS information directly from specified file. This is useful if DB2 subsystem is not up and running. Use BSDS, ACTV or ARCH to specify the option for log print either from an active log, archive log or from RBA range by BSDS information.

Syntax: DSN1LOGP [BSDS='bsds.dname'] [BSDS|ACTV|ARCH]

Line objects allowed: [TS](#), [IX](#), [TP](#), [IP](#)

O

DSN1PRNT Generate DSN1PRNT utility JCL for the selected line objects.

Syntax: DSN1PRNT

Line objects allowed: [TS](#), [IX](#), [TP](#), [IP](#)

O-MO-MT

DT Generates DT- distinct type from a selected line object.

Syntax: DT (V6 or above only)

Line objects allowed: [TB](#)

BO-MO-WC

ED Edit a sequential dataset, a group of sequential datasets, or a group of members of a PDS. Use MACRO option to process a predefined ISPF edit commands. Specify MACRO(*sysmacro) to process system defined macro. For example, use MACRO(*MYMENU) to access MYMENU system defined ED macro. When edit a group of pds members, Use START=starting-member-name END=ending-member-name to narrow down the range of editing. Besides the regular ISPF edit commands, the following are a list of new edit commands, which can be used with ED:

INSERTB

INSERTA line#* character string to be inserted

INSERT

INSERT, INSERTB, and INSERTA are used to insert a line

INSERTB

INSERTA line#* IDD=ddname | IDSN=dsname

INSERT

INSERT, INSERTB, and INSERTA are used to insert a file

All INSERT command can be substitute with REXX variables

by specifying {REXX-VAR} in the inserted line or file. Line# can also be {REXX-VAR}.

Ex. INSERTA {linpos} IDSN={indsn}

Use {} and {} are substituted with { and }.

IDSN can also be a {rexx-var}.

DELETE line#* [# of lines to be deleted|_]*

DELETE is used to delete lines. Use * to delete all lines from current Line position. Both line# and num of lines can be {REXX-VAR}.

LOOP [#|EOF] and LOOP_END

Use LOOP and LOOP_END to process a group of edit command repeatedly until # times reached or EOLOOP = 'Y'

You can set EOLOOP with a REXX command or a FIND command when NOFOUND condition raised. If you did not specify #, you need to specify a FIND command before LOOP and before LOOP_END Use LOOP EOF to process until end of file is reached (with CLINE NEXT command). You needed to specify CLINE NEXT as last statement before the LOOP_END to check and see if the EOF is reached.

GETG rexx-variable=&GV

GETG is used to set a rexx variable to a global variable. The global variable must be set in previous steps. The set rexx-variable can then be used to substitute a {rexx-var} in the subsequent INSERT from a skeleton file.

SETG 'string-before' &GV 'string-after'

SETG is used to assign DB212 global variable from the current edit line with specified string pattern.

SETG2 &GV=rexx-variable

SETG2 is used to assign DB212 global variable from the current edit line with the content of a rexx-variable.

CLINE [NEXT] [PREV] [WRITE]

Use CLINE to set rexx variable CLINE with the current edit line information. Use CLINE NEXT to set CLINE to the next line and CLINE PREV to set CLINE to the previous line, EOF is set to 'Y' if end of file condition reached. Use CLINE WRITE to update the content of the current line with the content of REXX variable CLINE

CPOS [#]

Use CPOS to set rexx variable CPOS to the current line number or #. If # is used, the current line position also set to #.

TOP or BOTTOM

Use TOP or BOTTOM to position cursor to the first or last line of the edited file.

REXX one line rexx statement (continuation with + at end)

You can use REXX to parse edit line, process output, set EOLOOP and set variable to be used by INSERT. You should use ED_varname as the variable name in your REXX statement.

Special REXX variable LP contains the loop counter and EOLOOP for Looping control variable. Use REXX statement to set EOLOOP = 'Y' to end the LOOP process. REXX variable WSDSN contains the name of the current edit dataset. REXX variable ERROROFF = 'Y' to disable the error/warning message display for MYMENU process. REXX variable NEXTLINE can be set to the next line to be executed. Set EOF = 'Y' to set the end of file condition. You can check LAST_RC for the last command return code and skip the rest of the commands SIGNAL FINISH by issuing the following REXX command:

```
REXX IF LAST_RC \= 0 THEN SIGNAL FINISH.
```

Or skip commands SKIP # by issuing the following command:

```
REXX IF LAST_RC \= 0 THEN SKIP 5
```

DB212 db212 statement (continuation with + at end)

You can use DB212 to invoke DB212 command inside ED macro.

The Following ISPF edit macros can be used together with ED or Used as a **standalone ISPF command**. When they are used as ISPF edit command, they can only be processed in online mode, and you should use ENTER key to process them.

DISTINCT start-col,end-col

DISTINCT is added to drop duplicates.

NEWJOB start-col,end-col

Add <NEWJOB> token to line object if the data between start-col and end-col change.

POSTMIGR [j,d]ml

POSTMIGR are used to comment out the multiple occurrence of VIEW, ALIAS, SYNONYMS, BIND and GRANT and only leave the last occurrence as valid CRAETE, BIND or GRANT command from the output of MIGR command.

FGET 'filename.tobe.inserted'*xxxxxxx

[TYPE=B|A POS=*|line#] (required in batch mode)

FGET can be used to get information from external file or *xxxxxxx a DB212 delivered file directly into your existing edit session. Use B or A command to specify where you want the selected file to be inserted.

FPUT 'file.tobe.created' [POS=#]*|*+|# NOREC=# APPEND

Use FPUT together with CC or MM line command in online mode to copy or move a block of lines to an external file.

RESIZEIT start-col,end-co,size

RESIZE is added to resize the line object with the <NEWJOB> token based on the accumulated size between start-col and end-col and the size info.

Use * in the dataset name or member name field to allow editing a group of dataset or members of a PDS. Use PASS=Y option to pass the content of IDSN, IDD or S Selected line down to your ED macro. The total number of line objects is stored in a rexx variable LNOBJ.0 and the actual content of the line objects are stored in a rexx array LNOBJ..

For example, 'MY.*.SYPUNCH' or 'MY.*' or 'MY.JCL(TST*)' OK
'MY.ABC*.*' or 'MY.ABC*' is NOT OK

Syntax: ED 'your.eding.dataset[*],mem*[memname]'
[START=starting-mem-name] [END=ending-mem-name]
[MACRO(your.ed.macro)] [PASS=Y]

BO

EDIT and END_EDIT Use EDIT and END_EDIT pair commands in batch mode to allow ISPF edit commands be executed against a selected dataset. This command is obsolete, you should use ED command instead.

Two new addin ISPF Edit command: **DISTINCT start-col,end-col** is added to drop duplicates. **RESIZEIT start-col,end-co,size** is added to resize the line object with the <NEWJOB> token based on the accumulated size between start-col and end-col and the size info.

(This command is obsolete and replaced by ED command)

Syntax: EDIT 'edit.dsname'
ISPF Edit commands
END_EDIT

Line objects allowed: none

B

EXEC Execute DB2 Commands, IDCAMS commands, DDL, DCL or any of the DB212 scripts generated from various DB212 commands such as MIGR or DDL. [#] is the batch restart line number. Specify RC0 to continue process SQL scripts even if there are errors during process. Specify SQLTERM option in V6 or above to assign SQL terminator. Specify '+' at end of a DDL line to indicate the next DDL line is the continuation of current DDL line.

Syntax : EXEC [#] [ERROR(CONTINUE|SKIP #)] [RC0]
[SQLTERM(?) V6 or above only]

Line objects allowed: [DB212 scripts](#)

BO-MO-MT

EXPLAIN Invokes DB2 EXPLAIN and display EXPLAIN output report.

Query block number 0 is used as default explain output.

Use [QNO=#] option to direct DB212 to use QNO=# as the result starting QUERYNO. Use O=planowner option to SET SQLID for unqualified name from DBRM statement (This option is only allowed if you have authorization to issue SET SQLID command). Use DESC=N to disable printing of report detail description. Use DET=Y to enable catalog statistics drill down. DET=O is the default which display detail statistics only if the selected SQL is a potential problem SQL. Use DEGREE=degree to assign CURRENT DEGREE. Use SQLTERM(?) to assign SQL terminator to allow multiple SQL to be explained. Don't specify SQLTERM option if default SQL terminator ; is used.

Use SU= option to display only for those queries with service unit greater than or equal to the thread hold specified.

Syntax: EXPLAIN [QNO=#|0] [O=planowner] [DESC=Y|N] [DET=O|N|Y]
[DEGREE=degree] [SQLTERM(?)] [Q=qualifier]
[SU=service-unit-thread hold]

Line objects allowed: [SQL statements block](#) or [DBRM statements block](#)

BO-MO

EXPLAINP Display report from existing PLAN_TABLE.. Use PG=progname to select program, PL=planname to select plan. You can use wildcard % on both progname and planname field. Use QNO=# to display only for query no=#. Use

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QNO=#1-#2 to display query no between #1 and #2. Use DET=Y to enable catalog statistics drill down. DET=O is the default which display detail statistics only if the selected SQL is a potential problem SQL. Use DESC=N to disable printing of report detail description. Use GN=generation to specify generation of explain output. Specify 0 for current generation, -1 for previous generation... The default (do not specify GN option) is all generations. Use SU= option to display only for those queries with service unit greater than or equal to the thread hold specified.

Use HOSTVAR option to display host variable information
Syntax: **EXPLAINP** [O=plan-owner] [PG=Program-Name] [QNO=[##1-#2]]
[PL=planname][DESC=Y|N] [DET=N|Y] [GN=generation]
[SU=service-unit-thread hold] [HOSTVAR]

Line objects allowed: [PL](#) or [PG](#), [DM](#) [stmt_no]
BO-MO-MT

FETCH Generate fetch into embedded SQL statements against selected line object. The host variables from DCLGEN dataset are mapped onto column name.
Syntax: **FETCH** MAP='dclgen dataset'
Line objects allowed: [TB](#), [AL](#), [SY](#), [VW](#)
BO-MO-MT

FLIST List the content of a dataset. 'flist.dsname' is used to specify the name of the dataset.
Syntax: **FLIST** 'flist.dsname'
Line objects allowed: [None](#)
BO

FREE Generate DB2 FREE commands against selected package or plan. KEEP=# option allows you to generate FREE command with # of version to keep for a db2 package. Specify CURRENT to generate FREE command for current version of the selected PG lines. You can not specify KEEP option when you select a CURRENT option.
Syntax: **FREE** [KEEP=0|#] [CURRENT]
Line objects allowed: [PG](#), [PL](#)
BO-MO-MT-WC

FU Generates FU- function information from a selected line object.
Syntax: **FU** (V6 or above only)
Line objects allowed: [TB](#), [VW](#), [PL](#), [PG](#)
BO-MO-MT-WC

GENVCAT Generates VCAT information from the selected line objects. VOL=* option generate IDCAMS define with VOLUMES(*). Specify ALLOC option to override the space allocation:
Alloc_type can be CYL, TRK, PAGE; if omits alloc_type, DB212 uses device type information from ICF catalog as default.
Pri can be HIARBA, HIURBA or a numeric number. If omits pri, DB212 use primary allocation information from ICF catalog as default.
Sec should be a numeric number. If omits sec, DB212 use secondary allocation information from ICF catalog as default.

Syntax: **GENVCAT** [VOL=*] [%=###] [CYL|TRK|_]]
[ALLOC=(alloc_type,pri,cse)]
Line objects allowed: [TS](#), [TP](#), [IX](#), [IP](#), [DS](#)
BO-MO-MT

GRANT Generates GRANT DCL for the selected line objects.
Syntax: **GRANT** [SQLID=id] [TO=to-user] [grant options]
Line objects allowed: [AL](#), [BP](#), [CL](#), [DB](#), [PG](#), [PL](#), [SG](#), [TS](#), [TB](#), [US](#), [VW](#)
([DT](#), [FU](#), [SP](#), [SH](#), [TR](#) for V6 or above)
BO-MO

HELP or ? Displays HELP screen for DB212 commands, system defined UDF and DB212 TSO command.
Syntax: **HELP?** [db2i2 command]*UDF]*db2i2 TSO command]
O

HELPL0 Displays HELP screen for all available DB212 commands for any valid line object.
Syntax: **HELPL0** [valid line object]
O

HMIGRATE Invokes HSM HMIGRATE to migrate DS line objects or AR-archive log line objects.
Syntax: **HMIGRATE**
Line objects allowed: [DS](#), [AR](#)

BO-MO-MT

HRECALL Invokes HSM HRECALL to recall DS line objects or AR-archive log line object.
Syntax: **HRECALL**
Line objects allowed: [DS](#), [AR](#)
BO-MO-MT

IMPACT Display dependent line objects from the selected line object.
Syntax: **IMPACT**
Line objects allowed: [AL](#), [DB](#), [TS](#), [TB](#), [IX](#), [SY](#), [VW](#)
([DT](#), [FU](#), [SP](#), [TR](#) for V6 or above)
BO-MO-MT

INFO Display SSID information and connection information.
Syntax: **INFO**
BO

INSERT Generate SQL INSERT statements for the selected line objects. Use MAP option to generate embedded SQL.
Syntax : **INSERT** [MAP='dclgen dsn']
Line objects allowed: [TB](#), [AL](#), [SY](#), [VW](#)
BO-MO-MT

IP Show IndexPart usage for a selected line object.
Syntax: **IP**
Line objects allowed: [DB](#), [IX](#), [TB](#), [TP](#)
BO-MO-MT-WC

IX Show Index usage for a selected line object.
Syntax: **IX**
Line objects allowed: [DB](#), [TS](#), [TB](#), [PL](#), [PG](#)
BO-MO-MT-WC

JOB CARD Set up JOB CARD Information. Please specify this if you want to use any JCL generated from DB212. Since any CC > 4 consider to be sever error in DB212, specify COND=(4,LT) option when you enter your jobcard information.
Syntax: **JOB CARD**
O

LISTC Generates IDCAM List Catalog information against select line object. The summary extent and usage information is displayed. EXT(##) option direct DB212 to only list information when extents > ##. TSIX option allows DB212 to display TP or IP information instead of DS information. IN option insert output directly into your edit session. Use SIZE=#### option to generate <NEWJOB> token on the output line for every #### cylinders. Please follow the rules below for wild card with,DS,line object:
Use *,to represents one qualifier
Use **,to represents one or more qualifiers
A double asterisk cannot precede or follow any characters it must be preceded or followed by either a period or a blank,
Example:

DS vcat.dsndbd.db** (correct)
DS vcat.dsndbd.db** (not correct)

Syntax: **LISTC** [EXT(##)] [TSIX] [IN] [SIZE=####]
Line objects allowed: [TS](#), [IX](#), [TP](#), [IP](#), [DS](#)
BO-MO-MT-WC

LISTDEF In DB2 V7, generates LISTDEF DB2 utility control statement for selected line objects. Specify ODSN=odsn(*) and JOBNM=mem## to save output to multiple members of a PDS.
Syntax: **LISTDEF** [ODSN=odsn[*]] JOBNM=mem## JOB#=#]
Line objects allowed: [DB](#), [TS](#), [TP](#), [IX](#), [IP](#), [TB](#)
BO-MO-MT

LOAD Generate DB2 LOAD utility JCL for selected table with calculated space for work files. If multiple TB line objects are selected, you can use # on each TB line to indicate the estimated # of rows to be loaded. Make sure you select 0 on the estimated row field on the selection screen to allow estimated row to be selected from the TB line.

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Use SYSIN=sysin.dsn and SYSREC=sysrec.dsn at end of the TB line object to assign the SYSIN and SYSREC input.
Use RESUME=YES at end of a TB line object to indicate the LOAD RESUME override for that particular TB line.
Specify OVERRIDE command option to overrides the SYSIN control card with the information from the 'load.parmutil.dsnname' file.
Syntax : **LOAD** ['load.parmutil.dsnname'] [OVERRIDE]
 [LISTDEF=listdef.dsnname[(patt*)]] [TEMPLATE=template.dsnname]
 [OPTIONS=options.dsnname] v7 or above
Line objects allowed: [TB tname \[#\]](#) [[SYSIN=sysin.dsn](#)] [[SYSREC=sysrec.dsn](#)]
 [[RESUME=YES](#)]

BO-MO

MIGR Generate migration DB2I2 script which includes all the DDL, IDCAM Defines, BIND plan, BIND package and DCL GRANT for selected objects. You can modify the generated DB2I2 scripts to fit your need. The scripts can then be executed by using the DB2I2 EXEC command. Specify %=### at the end of line object to override space allocation. Specify #PART=### and PTX=index-name to convert a non-partition TS to a Partition TS. Specify SQLTERM option in Db2 V6 to assign SQL terminator.

Use **POSTMIGR ED** macro to comment out duplicate VIEW, ALIAS, SYNONYMS, BIND and GRANT.

Syntax: **MIGR** [AL=Y] [SY=Y] [VW=Y] [BIND=Y] [GRANT=Y]
 [RI=B|C|P|N][%=###] [CYL|TRK|_]
 [ALLOC=(alloc_type,pri,cse)]
 (The following options are for V6 or above)
 [SQLTERM(?)] [DT=Y] [LO=Y] [FU=Y] [TR=Y]

Line objects allowed: [AL, DB, TS, TB, IX, SY, VW, SG, RI](#)
 ([DT, FU, SP, TR](#) for V6 or above only)

BO-MO-MT

MODIFY Generate DB2 MODIFY utility JCL for the selected line objects. Additional job step issues TSO DELETE for all the image copy data sets deleted from Ibm system catalog.

Syntax: **MODIFY** ['modify.parm.dsnname']
 [LISTDEF=listdef.dsnname[(patt*)]] [OPTIONS=opt.dsnname] v7 or above
Line object allowed: [TS, TP](#)

BO-MO-MT

OPTIONS In DB2 v7 generates DB2 utility OPTIONS control statements.

Syntax : **OPTIONS** [IDSN=options.indsn] [ODSN=options.outdsn]
Line objects allowed: [N/A](#)

O

PACKIT Generate DB2 BIND command for the selected DBRM or plan.

Syntax : **PACKIT** [CL=collection-ID] [O=owner] [Q=qualifier] [MEM=*]
Line objects allowed: [DM, PL](#)

BO-MO-MT-WC

PARMUTIL Generate utility parameter control statement file for the following DB2 utilities: REORG, COPY, LOAD, RUNSTATS, MODIFY, REPAIR or RECOVER, REBUILD, CHECK, REPORT, DCLGEN (LISTDEF, UNLOAD, CPY2CPY for DB2 V7 or above only).

Syntax: **PARMUTIL** parmutil-util-option 'parmutil.dsnname'
 where parmutil-util-option must be one of the utility list above

Line objects allowed: [none](#)

O

PG Displays associated DB2 Package information for the selected line objects.

Specify TR=N to generate no trigger package.

Syntax: **PG** [TR=Y|N]

Line objects allowed: [TS, AL, TB, SY, VW, IX, PL, DB](#)
 ([SP, FU](#) for V6 or above only)

BO-MO-MT-WC

PGAUTH Display Package Authorization information for the selected line objects.

Syntax : **PGAUTH** [GRANTOR|GRANTEE]

Line objects allowed: [PG, US](#)

BO-MO-MT-WC

PL Displays associated DB2 Plan information for the selected line objects.

Syntax: **PL**

Line objects allowed: [TS, AL, TB, SY, VW, IX, PG, DB](#)

([SP, FU](#) for V6 or above only)

BO-MO-MT-WC

PLAUTH Display Plan Authorization information for the selected line objects.

Syntax: **PLAUTH** [GRANTOR|GRANTEE]

Line objects allowed: [PL, US](#)

BO-MO-MT-WC

QBUILD Generates SQL WHERE predicates directly from selected line objects.

Syntax: **QBUILD** [F1=field name 1] [F2=field name 2] [F3=field name 3]
 [F4=field name 4]

Line objects allowed: [any valid line objects except .AC, AR, CI, CO, CP, CU, GV, IC, RL](#)

BO-MO-WC

QUIESCE Generates DB2 QUIESCE utility JCL for the selected line objects.

Syntax: **QUIESCE** [WRITE=NO] [TABLESPACESET]
 [LISTDEF=listdef.dsnname[(patt*)]] [OPTIONS=options.dsnname] v7 or above

Line objects allowed: [TS, TP](#)

BO-MO-MT

RBA Generate all available RBA/LRSN points from SYSIBM.SYSCOPY table for selected line objects. Specifies yyyy-mm-dd command option to restrict only the RBA/LRSN point not greater than the selected date be returned. Specify JU004 option to merge the RBA output with output from a previous DSNJU004 command output.

Syntax: **RBA** [yyyy-mm-dd] [JU004='dsnju004.output']

Line objects allowed: [TS, TP](#) ([IX, IP](#) for V6 or above)

BO-MO-MT

REBIND Generate DB2 REBIND commands for the selected package or plan. DET=Y option generates all REBIND options. The default is DET=N, no rebind options are generated.

Syntax: **REBIND** [DET=N|Y]

Line objects allowed: [PG, PL](#)

BO-MO-MT-WC

REBUILD Generate DB2 REBUILD index utility JCL for the selected line objects. (V5 and above).

Syntax: **REBUILD** ['rebuild.parmutil.dsnname']
 [LISTDEF=listdef.dsnname[(patt*)]] [TEMPLATE=template.dsnname]
 [OPTIONS=options.dsnname] v7 or above

Line objects allowed: [TS, IX, TP, IP](#)

BO-MO

RECOVER Generate DB2 RECOVER utility JCL for the selected line objects.

Specify RBLDIX=N|Y|A at the end of line object to override the rebuild index panel option. N-no rebuild, A-rebuild index(ALL), Y-rebuild index only the selected part

Syntax: **RECOVER** ['recover.parmutil.dsnname']
 [LISTDEF=listdef.dsnname[(*)]] [OPTION=opt.dsnname] v7 or above

Line objects allowed: [TS, IX, TP, IP](#)

BO-MO

REORG Generate DB2 REORG utility JCL for the selected tablespace or index. If 'reorg.parm.dsnname' is specified, the reorg option is generated based on the 'reorg.parm.dsnname'. Use option RCHK to generate REORGCHK step before REORG step. Specify OVRD option to assign reorg override table for REORGCHK. In v6 for UNLOAD or DISCARD option, you can specify SYSREC= and SYSPUNCH= at the end of the line object to assign SYSREC and SYSPUNCH data set name. Specify MAPTABLE=reorg_mapping_table at the end of the line object to override the MAPPING table for the online reorg.

Syntax: **REORG** ['reorg.parm.dsnname'] [RCHK [OVRD=reorg_override_table]]
 [LISTDEF=listdef.dsnname[(patt*)]] [TEMPLATE=template.dsnname]
 [OPTIONS=options.dsnname] v7 or above

Line objects allowed: [TS, IX, TP, IP](#)

[SYSREC=sysrec.dsn] [SYSPUNCH=syspunch.dsn]
[MAPTABLE=reorg_mapping_table]

BO-MO

REORGCHK Use REORGCHK to set condition code, in batch mode, to CC1, if a tablespace, tabelpart, index or indexpart does not require to run REORG. Set to CC2 if it does require to run REORG. The default CC1 is 0 and CC2 is 1. Use OVRD option to override and force a REORG. DB2I2.REORG_OVERRIDE is the default if no OVRD specified. Please refer to HELP *DDLREORG for the detail of the REORG override table definition.

Syntax: **REORG** [RC(0,1|CC1,CC2)]
[OVRD=DB2I2.REORG_OVERRIDE|your.reorg_override_table]

Line Object Allowed: [TS, TP, IX, IP](#)

BO

REPAIR Generate DB2 REPAIR utility JCL for the selected tablespace or index.

Syntax: **REPAIR** ['repair.parmutil.dsnname']

Line objects allowed: [DB, TS, IX, TP, IP](#)

BO-MO

REPORT Generate DB2 REPORT utility JCL for the selected line objects.

Syntax: **REPORT**
[LISTDEF=listdef.dsnname(*)] [OPTIONS=options.dsnname] v7 or above

Line objects allowed: [TS, TP \(IX, IP for V6 or above\)](#)

BO-MO-MT

RESETG Reset all Global Variables.

Syntax: **RESETG**

Line objects allowed: [N/A](#)

BO

REVOKE Generates REVOKE DCL for the selected line objects.

Syntax: **REVOKE** [FROM=from-user]

Line objects allowed: [AL, BP, CL, DB, PG, PL, SG, TS, TB, US, VW](#)
([DT, FU, SP, SH](#) for V6 or above only)

BO-MO-MT

REXX Use REXX DB2I2 command in batch mode to invoke REXX Exec or TSO CLIST with a stream of DB2I2 commands. Either IDD= or IDSN command option is required for this command. Use command option IDD= to indicate the DDNAME of the REXX/CLIST source. Use IDSN= to indicate the DSNNAME of the REXX/CLIST source.

Syntax: **REXX** [IDD=input.ddname|IDSN=input.dsnname]

Line objects allowed: [none](#)

BO

RI Generate Referential Integrity line objects from the selected TB line object.

Syntax: **RI**

Line objects allowed: [TB, DB](#)

BO-MO-WC

RSAUTH Display Resource Authorization information for the selected line objects.

Syntax: **RSAUTH** [GRANTOR|GRANTEE]

Line objects allowed: [BP, CL, SG, TS, US, DT](#)

BO-MO-MT-WC

RUN Produces result for specified SQL SELECT statement block. IN option returns result within your workbench edit session. Use the LIMIT(#) option to change the run result fetch limit 300. T=Y default option display the result column heading. T=N suppress heading display. The host variable option allows you to define host variable &N='vvvv' in the query and substitute them during run. NOTFOUND(SKIP #) option can be specified for batch to allow a not found bypass commands option. Specify DLM= to assign output field delimiter. You can use -INC to include part of your query from external source inside your SQL block.

Syntax: **RUN** [LIMIT(300#)] [IN] [T=Y|N] [host variable option] [DLM=?]
[NOTFOUND(CONTINUE|SKIP #)] [EDIT=N|Y] [TRUNC=N|Y]

Line objects allowed: [SQL blocks](#)

BO-MO-multiple line one Select SQL

RUNSTATS Generate DB2 RUNSTATS utility JCL for the selected tablespaces or indexes. If 'runstats.parm.dsnname' is specified, RUNSTATS option is generated base on the 'runstats.parm.dsnname'.

Syntax: **RUNSTATS** ['runstats.parmutil.dsnname']

[LISTDEF=listdef.dsnname([patt*])] [OPTIONS=opt.dsnname] for v7 and above

Line objects allowed: [TS, IX, TP, IP](#)

BO-MO-MT

SDSF Interface to SDSF to display output queue information for selected job name and job number. By specifying ODSN option or running SDSF in batch mode, it allows you to spool the output queue information.

Syntax: **SDSF** ISPF-SDSF-primary-menu-option

Line objects allowed: [JI](#)

BO-MO

SELECT Generate SQL SELECT statements for the selected table, alias, synonyms or view.

Syntax: **SELECT**

Line objects allowed: [TB, AL, SY, VW](#)

BO-MO-MT

SELPATHU Generates SQL UPDATE statement for SYSIBM catalog table which influence selection path of the DB2 Optimizer.

Syntax: **SELPATHU**

Line object allowed: [CI, CU](#)

BO-MO-MT

SELPATHV Generates CI and CU line objects. The CI and CU lines display DB2 catalog information which influence selection path of the DB2 Optimizer.

Syntax: **SELPATHV** [OPTION=REPORT|CUCI]

Line object allowed: [TB](#)

BO-MO-WC

SETG Sets Global Variables.

Syntax: **SETG**

Line object allowed: [GV](#)

BO-MO

SETRBA Uses SETRBA command to set the INCORE RBA which can then be used in the recover to RBA or recover to LOGPOINT process. To set INCORE RBA just position the cursor on any of the valid RBA field and issue SETRBA.

Syntax: **SETRBA**

Line object allowed: [any edit line with valid RBA field](#)

BO

SHAUTH generates SH – schema authorization from selected line objects.

Syntax: **SHAUTH** (v6 or above only)

Line object allowed: [SH, US](#)

BO-MO-MT-WC

SNAPSHOT generates DSN1PRNT snapshot for a selected page of a line object. The DSN1PRNT options can be any valid DSN1PRNT options except the NUMPARTS, which is derived from the selected line object.

Syntax: **SNAPSHOT** pgno-in-hex [DSN1PRNT options]

Line object allowed: [TS, TP, IX, IP](#)

BO-MO-MT

SP generates SP – stored procedure line object information from selected line objects.

Syntax: **SP** (V6 or above only)

Line object allowed: [TB, VW, PL, PG](#)

BO-MO-MT-WC

SPACE allows you to estimate space requirement for a db2 table or an index. You can specify row count and %compressed at end of TB line or row count and key card at end of IX line to bypass the estimation screen.

Syntax: **SPACE**

Line object allowed: [TB, IX](#)

BO-MO-MT

SPACEADJ allows you to generate DSADJ line objects based on the row count for table partition and row count and key card for index partition. The output format is TP dbname.tsname partno ALLOC=(alloc_type,pri,sec) for table partition and IP ixcreator.ixname partno ALLOC=(alloc_type,pri,sec) for index partition. Use CYL or TRK to adjust to cylinder or track boundary. Syntax: SPACEADJ [CYL|TRK|PAGE] Line object allowed: AL, AT BO-MO-MT

SSID(ssid) Set DB2 subsystem ID. Issue SSID(?) to display all SSID information Syntax: SSID(ssid) or SSID(?) BO

START Issue DB2 START command for the selected line objects. Syntax: START [db2 start command options] Line objects allowed: DB, TS, IX, TP, IP BO-MO-MT

STATS Produces DB2 catalog statistic summary for selected database, tablespace, table or indexes and their dependent objects. The statistics recommendation assists you to identify potential problem. Use TSIX option to return in TS, TP, IX or IP line object. Use OPTION=REORGTSIX or OPTION=REORGTPIP to return line object in TSIX or TPIP needed to be REORGed. Syntax: STATS [TSIX] [OPTION=ALL|REORGTSIX|REORGTPIP] Line objects allowed: DB, TS, TB, IX, TP, IP, PL, PG BO-MO-MT-WC

STOP Issue DB2 STOP command against selected database, tablespace or indexes. Syntax: STOP Line objects allowed: DB, TS, IX, TP, IP BO-MO-MT

SUPERC Use SUPERC to invoke IBM SUPERC to compare the content of the newds and oldds. Syntax: SUPERC newds oldds [ODSN='output.dsname'] Line objects allowed: BO

SY Generate Synonyms line objects from the selected line object. Syntax: SY Line objects allowed: TB, VW, PL, PG BO-MO-MT-WC

SYSIBM(creator) Set DB2 catalog table creator ID. Default is SYSIBM Syntax: SYSIBM(mirror-table-creator|SYSIBM) BO

TAG Tags a SYSCOPY line for RECOVER or DSN1COPY to identify RBA point of time recovery or TOCOPY image copy dataset name. Or tag a active log, archive log, check point or archive log rba line. Syntax: TAG Line objects allowed: syscopy_line, mymenu_line, AC, AR, CP, RL BO

TB Shows associated DB2 tables for specified line objects. Syntax: TB Line objects allowed: DB, TS, IX, PL, PG, AL, VW, SY (DT, FU, TR for v6 or above only) BO-MO-MT-WC

TBAUTH Shows table authorizations for specified line objects. Syntax: TBAUTH Line objects allowed: AL, VW, TB BO-MO-MT-WC

TEMPLATE In DB2 V7, create TEMPLATE control statement to be used with other DB2 utilities. The template-option can be one of the following: CHECKDATA, CHECKIX, CHECKLOB, COPY, CPY2CPY, LOAD, MERGECOPY, REBUILD, REORGIX, REORGTG, UNLOAD. Use IDSN option to clone existing TEMPLATE. Or leave out IDSN to generate a new set of template. Syntax: TEMPLATE template-option [IDSN=input.skelton] [ODSN=output.file]

Line objects allowed: N/A BO

TOKENSCN Use TOKENSCN to scan the specified 'load.library' to check if the consistent token matches. If optional member is specified the scan is done interactively, otherwise, a superc scan batch job is generated. Syntax: TOKENSCN 'load.library[member]' Line objects allowed: PG, DM BO

TP Show TablePart usage for a selected line object. Syntax: TP Line objects allowed: DB, TS, TB BO-MO-MT-WC

TR Shows associated DB2 Triggers for specified line objects. Syntax: TR (v6 or above only) Line objects allowed: DB, TB, PG BO-MO-MT-WC

TS Shows associated DB2 Tablespaces for a specified line objects. Syntax: TS Line objects allowed: DB, TB, PL, PG BO-MO-MT-WC

TSIX Shows associated DB2 Tablepart or Indexpart information from a selected DS line object. Syntax: TSIX Line objects allowed: DS BO-MO-MT-WC

TSO Use DB2 TSO to invoke TSO command within DB2 workbench. Syntax: TSO [TSO command] Line objects allowed: none BO

The following are built-in TSO commands:

FCPY allows you to copy files or append to an existing sequential dataset. Format: TSO FCPY indsn outdsn [APPEND].

TWAIT allows you to wait for time event. Format: TSO TWAIT [PERD|ACTL]hhmmssst. For example, Use the following statement to wait for 3 minutes before resume execution: TSO TWAIT PERD00030000 Use the following statement to wait until 4:00 PM before resume execution: TSO TWAIT ACTL16000000

CAPTBUFR allows you to capture bufferpool information from DISPLAY BUFFERPOOL DETAIL output into a DB2 table. Format: TSO CAPTBUFT Indsn-Outdsn-DB2.Buffer.Tbl-DB2ver.

READBUFR allows you to display bufferpool information from the DB2 table which contain the output from CAPTBUFR. Format: TSO READBUFR ssid\location-DB2.Buffer.Tbl-Bpool-Outdsn

DB2ILOG allows you to generate tracking job steps to existing JCL. It inserts a step before the first job step and after the last job step. The tracking steps insert the following TSO command before the first step and after the last step: TSO DB2I2TRK your.tracking_table STATUS Where STATUS = 'S' for the start of the job - before the first step STATUS = 'E' for the end of the job - after the last step with COND=(8,GE) STATUS = 'A' for the abend of the job - after the last step with COND=(8,LT) STATUS = 'A' for the abend of the job - after the last step with COND=((8,LT),ONLY)

To use this TSO command, you need to define the db2 tracking table. Please refer to Db2I2 Reference for detail about how to define the tracking db2 table. Make

sure comment out COND=(4,LT) from your JOBCARD so that these job steps can be processed accordingly.

Format:

TSO DB2I2LOG jcl.input your.tracking_table

where jcl.input can be: my.jcl(aa*), My.test.* or My.*.jcl

DB2I2TRK allows you dynamically insert the following job tracking information into the specified db2 tracking table:

JOBNAME, JOBNUM, STATUS, LAST_UPD_TSTMP

To use this TSO command, you need to define the db2 tracking table. Please refer to Db2I2 Reference for detail about how to define the tracking db2 table.

Format:

TSO DB2I2TRK your.tracking_table [S|E|A]

DR allows you to display register database and generates recovery jobs based on the information from syslogrange.

Format:

TSO DR 'register.database.dataset' outfile-prefix Y|N [track_table_name]

Where

'register.database.dataset' is a sequential file contains the following:

1st record DRPRMRPT='report.-recovery-parmutil'
 2nd record DRPRMRCV='recovery-parmutil'
 3rd record database report-jobname recovery-jobname

Example of a register database dataset:

DRPRMRPT='JRHJ.PARMUTIL(REPORTDR)'
 DRPRMRCV='JRHJ.PARMUTIL(RECOVRDR)'
 PRODDB1 DB1J1 DB1##
 PRODDB2 DB2J2 DB2##

Specify ## on recovery job name allows concurrently running
 Generated recovery jobs.

Outfile-prefix for the output file prefix for all the generated outputs.

Specify Y to submit the recovery jobs after the tablespaces have been identified needed to be recovery.

Specify optional track_table_name if you want db2i2 to insert job tracking steps with DB2I2LOG command.

P000710 takes the output from DB2 REPORT RECOVERY and generates TS line object, which represents all the table spaces, which have open for update since the specified RBA point.

To invoke P000710-Report Recovery Analysis Routine, you need to specify a DD with the following:

//RPRDD DD DSN=output.from.report.recovery

Where output.from.report.recovery contains the output from a DB2 REPORT RECOVERY output

Format:

TSO P000710 output.TS.line.object RBA=xxxxxxxxxxxx

or **TSO P000710** output.TS.line.object LRSN=xxxxxxxxxxxx

Where

output.TS.line.object :

contains the output TS line object from P000710

RBA or LRSN=xxxxxxxxxxxx :

Specify the 12 byte HEX RBA point which is used to decide if a TS line will be generated. If sysibm.syslograngex contains a log range which after the specified 12 byte Hex, then a TS line object will be generated for the reported table space.

JOBGEN reads the input JCL and strip and replace all inline control parameters with information specified from control file.

Format:

TSO JOBGEN 'JCL.input.dataset' 'control.dataset' [REP]

Where

'control.dataset' contains the following:

1st record 'SSID.dataset(SSID)'
 used to substitute the inline //SSID DD *
 2nd record 'Output.JCL.library'
 used to receive the output JCL. JOBNAME is used as
 the output JCL member name
 3rd record 'Output.parameter.library'

optional output parameter library. If specified, all the

//... DD * [\$\$memname]

//... DD DATA,DLM=xx [\$\$memname]

will be written to the library specified.

If optional [\$\$memname] specified, the specified Memname will be used as the member of the output Parameter. Otherwise, member C##### will be randomly generated as the output member name.

Example of a control dataset:

'my.control(SSID)'

'my.jcllib'

'my.parmlib'

TRANSFRM reads input definition, map the input data file with output definition file to generate an output file which contains transformed output based on the input, output definition files and the input data file.

Format:

TSO TRANSFRM

IDEFDD=input.def.ddname|IDEFDSN=input.def.dsname +

ODEFDD=output.def.ddname|ODEFDSN=output.def.dsname +

DATADD=input.data.ddname|DATADSN=input.data.dsname +

ODSN=transform,output.dsname +

[COMMIT=(freq,dlm;)] [LRECL=irecl|80] [WKSP=1|pri_alloc]

[QUOTE;][SAMPLE=#]

Where

'IDEFDD or IDEFDSN - input definition which can contains the following:
 varname POS(position) DATATYPE(length,precision) NULLIF(pos)='?'

Example,

[WHEN(col1:col2)='???'] [WHEN(col1:col2)=X'????']

CHAR1 POS(40) CHAR(10)

VARCHAR1 POS(115) VARCHAR(254)

SMALLINT1 POS(1) SMALLINT

INTERGER1 POS(3) INTEGER

DECIMAL1 POS(35) DEC(7,2)

DATE1 POS(774) DATE

TIME1 POS(785) TIME

TIMESTAMP1 POS(774) TIMESTAMP NULLIF(800)='?'

Note: you can specify multiple WHEN clause inside input definition
 NULLIF(col1:col2)='???' or NULLIF(col1:col2)=X'????'

'ODEFDD or ODEFDSN - definition file used to format output file. Each input variable defined in the IDEFDSN can be used in the ODEFDSN with {varname}:

Example,

[WHEN(col1:col2)='???'] [WHEN(col1:col2)=X'????']

INSERT INTO MY_TABLE (

CHAR1, VARCHAR1, SMALLINT1, INTERGER1, DECIMAL,

DATE1, TIME1, TIMESTAMP1)

VALUES(

{CHAR1},

{VARCHAR1},

{SMALLINT1},

{INTERGER1},

{DECIMAL1},

{DATE1},

{TIME1},

{TIMESTAMP1});

Note: you can specify multiple WHEN clause inside output definition

COMMIT(freq,dlm) can be used to insert COMMIT statement for each freq records, if the output records are in SQL format. Dlm if not specified default to a semicolon. **LRECL** is used to specify the LRECL of the output file. Default if not specified is 80. **WKSP** can be used to specify the output file primary allocation in cylinder. Default if not specified is 1 cylinder. **QUOTE** option generates single quote around CHAR, VARCHAR, DATE, TIME and TIMESTAMP data type except when the selected variable is a NULL. Use **SAMPLE** option to process only the first # input records.

TO72 compress and remove unnecessary blanks from DB2I2 script line and convert them to 72 bytes long for DSNTAID and EXEC DB2I2 commands. The following lines will not be compressed:

DB2CMD line – DB2CMD on the first 6 position of the line

IDCAMS line – IDCAMS on the first 6 position of the line

A blank line

Format:

TSO TO72 indsn outdsn dlm

TSSET Generate table Space SET information in TS line object format from the selected TS line object.

Syntax: **TSSET**

Line objects allowed: **TS**

BO-MO

UNLOAD In DB2 V7, generates UNLOAD utility JCL to unload from TS, TP, TB or image copy of TS or TP.

Specify FROM IMAGECOPY option allows unload from image copy. You can not use this option with LISEDEF.

Specify ICGEN=gg and ICDATE=YYMMDD at end of the selected line object to specify the generation of image copy gg as the input to the UNLOAD, gg if specified, must be <= 0.

Current generation of image copy is selected if no ICGEN specified.

Specify ICDATE=YYMMDD to select a specific date of image copy as input to the UNLOAD.

Specify field specification and WHEN specification if desired.

Specify SYSREC and SYSPUNCH options to specify the SYSPUNCH and SYSREC dataset information. You can use this information to override the template specified in TEMPLATE command or default unload dataset name.

TEMPLATE command if required if you use LISTDEF to select your UNLOAD DB2 objects.

Syntax: **UNLOAD** [LISTDEF=listdef.dsname(patt*)]
[TEMPLATE=template.dsname]
[OPTIONS=options.dsname]

Line objects allowed: **TS, TP, TB**

BO-MO-MT

UPDATE Generate SQL UPDATE statements for specified line object. Use MAP option to generate embedded SQL.

Syntax: **UPDATE** [MAP='dclgen dsn']

Line objects allowed: **TB, AL, SY, VW**

BO-MO-MT

USAUTH Display User Authorization information for the selected line objects.

Syntax: **USAUTH** [GRANTOR|GRANTEE]

Line objects allowed: **US**

BO-MO-WC

VIEWG Display all existing Global Variables.

Syntax: **VIEWG**

Line object allowed: **N/A**

BO

VW Generate View line objects from the selected line object.

Syntax: **VW**

Line objects allowed: **TB, VW, AL, SY, PL, PG**
(SP, FU for V6 only)

BO-MO-MT-WC

ZPARM Display DSNZPARM information.

Syntax: **ZPARM** [dsnzparm-name]

BO

User Defined Function (UDF)

There are two types of UDF: system UDF and user UDF. System UDF located in the DB212 system library and shipped with DB212 system. A user UDF is created by you and stored in your own file. The following system user defined functions are shipped with the DB212 product to demonstrate how to build a user defined function. The UDF must be used with BACTH command and ICMD command option. The system UDF are located in the DB212.LIB library, you use BATCH ICMD=*udfname to invoke them. For example ICMD=*ACCCOMP to invoke plan_table comparison between two different generations of the same program: A user UDF is defined and save in your own file and invoked by BATCH ICMD=your.udf.file. Both types of UDF allows host variable substitute.

ACCCOMP provides scripts to compare different generations of program from the same DB2 PLAN_TABLE. The format to run ACCCOMP is:

BATCH ICMD=*ACCCOMP &owner=xxxxxxx &pg=xxxxxxx

Where &owner is the owner name of plan_table

&pg is the program name

ACCCOMPR provides scripts to compare the current generation of program from the two different DB2 PLAN_TABLE from different locations. The format to run ACCCOMPR is:

BATCH ICMD=*ACCCOMPR &ownr1=xxxxxxx &loc1=xxxxxxx +
&ownr2=xxxxxxx &loc2=xxxxxxx +
&pg=xxxxxxx

Where &ownr1 is the owner name of the first plan_table

&loc1 is the location name of the first plan_table

&ownr2 is the owner name of the 2nd plan_table

&loc2 is the location name of the 2nd plan_table

&pg is the program name

GENURLD Generates DSNTIAUL unload JCL followed by LOAD, REPAIR no copying and RUNSTATS job steps.

Format:

BATCH ICMD=*GENURLD &JCLWS='build.jcl' ODSN=gen.jcl

Where

'gen.jcl' contains the output JCL to generate the build.jcl. You can keep this file and reuse it in the future.

'bulid.jcl' contains the output JCL after submit the 'gen.jcl'

OBJCOMP provides scripts to compare two different DB2 Objects. The format to run OBJCOMP is:

BATCH ICMD=*OBJCOMP &loc1=loc1 &loc=loc2 &objt=objt &obj=obj

Where &loc1 is the location name of the first object

&loc2 is the location name of the 2nd object

&to is the user id to be removed

&objt is object type DB, TS, TB or IX

&obj is the name of the object

REMOVEID provides scripts to help you to remove a user ID from your DB2 sub-system. The format to run REMOVEID is:

BATCH ICMD=*REMOVEID &from=xxxxxxx &to=xxxxxxx &suff=

Where &from is the user id to be removed

&to is the user id to be removed

&suff is the work file suffix which allows you to run multiple REMOVEID jobs concurrently

TUNEPG provides scripts to tune DB2 packages. The format to run TUNEPG is:

BATCH ICMD=*TUNEPG &OUTPUT=xxxxxxx &TSOID=xxxxxxx &suff=

Where &OUTPUT is the output file

&TSOID is your TSOID, must contain BIND authority

&suff is the work file suffix which allows you to run multiple TUNEPG jobs concurrently

TUNETB provides scripts to tune DB2 tables. The format to run TUNETB is:
BATCH ICMD=*TUNETB &OUTPUT=xxxxxxx &TSOID=xxxxxxx &stuff=
Where &OUTPUT is the output file &TSOID is your TSOID, must
contain BIND authority
&stuff is the work file suffix which allows you to run
multiple TUNETB jobs concurrently

Sample scripts

The following sample scripts can be invoked with BATCH ICMD=*name just like UDF. Except there are no host variable substitute:

COPYSTAT provides scripts to help you to copy catalog statistics from one location to another.

GENSCCMD provides scripts to prepare and execute DSCOPY command.

MIGRTB provides scripts to help you to migrate DB2 tables.

MONBUFR provides scripts to capture DB2 Bufferpool information and report them.

UNLDRELD provides scripts to help you preparing UNLOAD and RELOAD processing.

Sample User Defined Queries (UDQ)

The following sample user defined queries are shipped with the DB2I2 product to demonstrate how to build the user defined command with ICMD option. These commands are located in the DB2I2.LIB library, you use RUN IDSN=*udqname to invoke them. For example, use the following command generate AT line object for specified db.ts:

```
RUN IDSN=*GENAT &DB='dbname' &TS='tsname'
```

GENAI contains query to build AI line objects from a specified index. The format to run GENAI is:

```
RUN IDSN=*GENAI &IXC='ixcreator' &IXN='ixname'
```

GENAT contains query to build AT line objects from a specified tablespace.

The format to run GENAT is:

```
RUN IDSN=*GENAT &DB='dbname' &TS='tsname'  
&COMPRATIO=%compressed
```

GENUNLDQ contains query to build TB line objects to be used for

DSNTIAUL. The format to run GENUNLDQ is:

```
RUN IDSN=*GENUNLDQ &WHEREWS='where.predicates.from.QBUILD'  
Where  
&WHERE contains the information from QBUILD output
```

GENUNLD1 contains query to build TB line objects to be used for

DSNTIAUL and UNLOAD with some enhancement.

The format to run GENUNLDQ is:

```
RUN IDSN=*GENUNLD1 &DEF=###  
&DS=dataset-prefix  
&WHERE='where.predicates.from.QBUILD'
```

Where

```
&DEF :default number of rows if no runstats information collected  
&DS :dataset prefix for SYSREC and SYSPUNCH  
&WHERE :contains the information from QBUILD output
```

GENSC contains query to build SC line objects to be used by DSCOPY command. The format to run GENSC is:

```
RUN IDSN=*GENSC &FSSID=Source SSID
```

```
&FLOC=Source LOCATION
```

```
&TSSID=Target SSID
```

```
&TLOC=Target LOCATION
```

```
&RCVRIX- Specify &RCVRIX=RCVRIX=Y to generate REBUILD INDEX
```

```
&RCVRIX=RCVRIX=N No REBUILD INDEX step
```

```
&RCVRIX= is the same as RCVRIX=Y
```

```
&ICDATE- Specify &ICDATE=ICDATE=yymmdd to request specific  
date of image copy as input
```

```
&ICDATE= choose most current full image
```

```
copy as input
```

```
&ICGEN - Specify &ICGEN=ICGEN=### to request specific  
generation of image copy as input
```

```
### must be <= 0
```

```
&ICGEN= choose most current generation
```

```
of full image copy as input
```

```
&WHERE - Specify &WHERE='qbuild.where.predicate.dsname' to
```

```
include the WHERE predicates generated
```

```
from QBUILD command
```

GENXC contains query to build XC line objects to be used by DSCOPY command. The format to run GENXC is:

```
RUN IDSN=*GENSC &FSSID=Source SSID
```

```
&FLOC=Source LOCATION
```

```
&TSSID=Target SSID
```

```
&TLOC=Target LOCATION
```

```
&ICDATE- Specify &ICDATE=ICDATE=yymmdd to request specific  
date of image copy as input
```

```
&ICDATE= choose most current full image
```

```
copy as input
```

```
&ICGEN - Specify &ICGEN=ICGEN=### to request specific  
generation of image copy as input
```

```
### must be <= 0
```

```
&ICGEN= choose most current generation
```

```
of full image copy as input
```

```
&WHERE - Specify &WHERE='qbuild.where.predicate.dsname' to
```

```
include the WHERE predicates generated
```

```
from QBUILD command
```

Sample ED macros

The following sample ED macros are shipped with the DB2I2 product to demonstrate how to build ED macros. These commands are located in the DB2I2.LIB library, you use FGET *macronm to copy them into your edit session and make change and create your own copy.

TPTOSQL demonstrates how to use various ED command to translate TP line objects to DELETE and INSERT sql to update COPY_SEQ_TABLE. The COPY_SEQ_TABLE contains the of image copy backup to the same job.

POTRCVR demonstrates how to use various ED command to process smart point of time (to last QUIESCE point) recovery for a DB line object.

POTRCVRD demonstrates how to use various ED command to process smart point of time (to last QUIESCE point) recovery for a DB line object (DASD image copy with one recovery for all line objects).

POTRCVRT a modified version of POTRCVR used to demonstrates how to use various ED command to process smart point of time (to last QUIESCE point) recovery for a DB line object, with consideration of image copies are backing up to TAPE and backup sequence.

Date Published 2/23/2005

INSSKEL, DELSKEL, DDLCOPYS are INSERT sql skeleton, DELETE sql skeleton and COPY_SEQ_TABLE DDL, which are required for the PORTRCVRT macro.

Line Object to Command Reference

Line Available DB2I2 Commands

| Line Object | Available | DB2I2 | Commands |
|-------------|------------------|------------------|----------------|
| AC | TAG | | |
| AI | QBUILD | SPACEADJ | |
| AL | AUTH | COAUTH | CREATE |
| | CURSORD | DrillDown | DCLGEN |
| | DDL | DELETE | DSNTIAUL |
| | FETCH | GRANT | IMPACT |
| | INSERT | MIGR | PG |
| | PL | QBUILD | REVOKE |
| | SELECT | TB | UPDATE |
| | VW | | |
| AR | HMIGRATE | HRECALL | TAG |
| AT | QBUILD | SPACEADJ | |
| BP | AUTH | DISPLAY | GRANT |
| | QBUILD | REVOKE | RSAUTH |
| CI | SELPATHU | | |
| CL | AUTH | GRANT | QBUILD |
| | REVOKE | RSAUTH | |
| CO | N/A | | |
| CP | TAG | | |
| CU | SELPATHU | | |
| DB | ALTER | AUTH | CREATE |
| | DrillDown | DBAUTH | DBDSIZE |
| | DDL | GRANT | IMPACT |
| | IP | IX | <u>LISTDEF</u> |
| | MIGR | PL | PG |
| | QBUILD | REPAIR | REVOKE |
| | RI | STATS | TB |
| | TP | TR | TS |
| | TSSET | | |
| DM | DrillDown | PACKIT | QBUILD |
| | TOKENSCN | | |
| DS | GENVCAT | MIGRATE | HRECALL |
| | LISTC | QBUILD | TSIX |
| DT | CREATE | <i>Drilldown</i> | DDL |
| | GRANT | MIGR | QBUILD |
| | REVOKE | TB | |
| IC | N/A | | |
| FU | CREATE | <i>Drilldown</i> | DDL |
| | GRANT | MIGR | PG |
| | PL | QBUILD | REVOKE |
| | TB | VW | |
| GV | SETG | | |
| IP | CHECK | <u>CPY2CPY</u> | COPY |
| | DrillDown | DISPLAY | DSADJ |
| | DSN1COPY | DSN1LOGP | DSN1PRNT |
| | GENVCAT | LISTC | <u>LISTDEF</u> |
| | QBUILD | RBA | REBUILD |
| | RECOVER | REORG | REORGCHK |
| | REPAIR | REPORT | RUNSTATS |
| | SNAPSHOT | START | STOP |
| IX | ALTER | CHECK | <u>CPY2CPY</u> |
| | COPY | CREATE | DrillDown |
| | DDL | DISPLAY | DSN1COPY |
| | DSN1LOGP | DSN1PRNT | GENVCAT |
| | IMPACT | IP | LISTC |
| | <u>LISTDEF</u> | MIGR | PG |
| | PL | QBUILD | RBA |
| | REBUILD | RECOVER | REORG |
| | REPORT | REORGCHK | REPAIR |
| | RUNSTATS | SNAPSHOT | SPACE |
| | START | STATS | STOP |
| | TB | <u>UNLOAD</u> | |
| JI | SDSF | | |
| PG | AL | AUTH | BIND |
| | BIND COPY | DrillDown | FREE |
| | FU | GRANT | IX |
| | PGAUTH | PL | QBUILD |
| | REBIND | REVOKE | SP |
| | SY | TB | TOKENSCN |
| | TR | TS | VW |
| PL | AL | AUTH | BIND |
| | DrillDown | FREE | FU |
| | GRANT | IX | PACKIT |
| | PG | PLAUTH | QBUILD |
| | REBIND | REVOKE | SP |
| | SY | TB | TS |
| PL | VW | | |
| RI | DrillDown | DDL | MIGR |
| | QBUILD | | |
| RL | TAG | | |
| SC | DSCOPY | QBUILD | |
| SH | <i>DrillDown</i> | AUTH | GRANT |
| | QBUILD | REVOKE | SHAUTH |
| SG | ALTER | AUTH | CREATE |
| | DrillDown | DDL | GRANT |
| | MIGR | QBUILD | REVOKE |
| | RSAUTH | | |
| SP | CREATE | <i>Drilldown</i> | DDL |
| | IMPACT | MIGR | PG |
| | PL | QBUILD | |
| SY | CREATE | CURSORD | DrillDown |
| | DCLGEN | DDL | DELETE |
| | DSNTIAUL | FETCH | IMPACT |
| | INSERT | MIGR | PG |
| | PL | QBUILD | SELECT |
| | TB | UPDATE | VW |
| TB | AL | ALTER | AUTH |
| | COAUTH | CREATE | CURSORD |
| | DrillDown | DCLGEN | DDL |
| | DELETE | DSNTIAUL | DT |
| | FETCH | FU | GRANT |
| | IMPACT | INSERT | IP |
| | IX | <u>LISTDEF</u> | LOAD |
| | MIGR | PG | PL |
| | QBUILD | REVOKE | RI |
| | SELECT | SELPATHV | SP |
| | SPACE | STATS | SY |
| | TP | TR | TS |
| | <u>UNLOAD</u> | UPDATE | VW |
| TP | CHECK | COPY | <u>CPY2CPY</u> |
| | DrillDown | DISPLAY | DSADJ |
| | DSN1COPY | DSN1LOGP | DSN1PRNT |
| | GENVCAT | IP | LISTC |
| | <u>LISTDEF</u> | MODIFY | QBUILD |
| | QUIESCE | RBA | RECOVER |
| | REORG | REORGCHK | REPAIR |
| | REPORT | RUNSTATS | SNAPSHOT |
| | START | STOP | STATS |
| | <u>UNLOAD</u> | | |
| TR | CREATE | <i>Drilldown</i> | DDL |
| | IMPACT | MIGR | PG |
| | QBUILD | TB | |
| TS | ALTER | AUTH | CHECK |
| | COPY | <u>CPY2CPY</u> | CREATE |
| | DrillDown | DDL | DISPLAY |
| | DSN1COPY | DSN1LOGP | DSN1PRNT |
| | GENVCAT | GRANT | IMPACT |
| | IX | LISTC | <u>LISTDEF</u> |
| | MIGR | MODIFY | PG |
| | PL | QBUILD | QUIESCE |
| | RBA | RECOVER | REORG |
| | REORGCHK | REPAIR | REPORT |
| | REVOKE | RSAUTH | RUNSTATS |
| | SNAPSHOT | START | STATS |
| | STOP | TB | TP |
| | TSSET | <u>UNLOAD</u> | |
| US | AUTH | COAUTH | COPYAUTH |
| | DBAUTH | GRANT | PGAUTH |
| | PLAUTH | QBUILD | REVOKE |
| | RSAUTH | USAUTH | |
| VL | AL | AUTH | COAUTH |
| VW | CREATE | CURSORD | DrillDown |
| | DCLGEN | DDL | DELETE |
| | DSNTIAUL | FETCH | FU |
| | GRANT | IMPACT | INSERT |
| | MIGR | PG | PL |
| | QBUILD | REVOKE | SELECT |
| | SP | SY | TB |
| | UPDATE | VW | |
| XC | DSCOPY | QBUILD | |

Italic are for V6 or above only

Italic are for V7 or above only