

Insert, Update, Delete Data in DB2 Tables and Views

Business Challenges

Maintaining data in DB2 tables and views without a tool like Testbase DB2 Edit requires writing SQL statements. These statements, while not difficult are time consuming one at a time and error prone. Knowledge of DB2 syntax and data types of the columns are required to accurately change data. Testbase DB2 edit provides these capabilities without SQL in an environment already familiar to most z/OS users.

ISPF Edit for DB2 Tables

TestBase **DB2 Edit** from SoftBase allows DB2 tables and views to be changed without knowing SQL. In fact, the commands are ones that are already familiar to most z/OS professionals – the commands and line commands of ISPF edit.

Line Commands

- | | |
|-------------------|--------------------------|
| 1. A After | 8. Ln Last |
| 2. B Before | 9. LOB Large Object List |
| 3. Cn Copy | 10. Mn Move |
| 4. Dn Delete | 11. Rn Repeat |
| 5. Fn First | 12. Sn Show |
| 6. In Insert | 13. UCn Upper Case |
| 7. LCn Lower Case | 14. Xn Exclude |

These line commands provide similar functions as those provided by ISPF edit with the exception of the LOB line command, which shows the lobs associated with the row and allows for them to be edited as well.

Primary Commands

- | | |
|------------|--------------|
| 1. Bottom | 13. Import |
| 2. Delete | 14. Left |
| 3. Down | 15. Locate |
| 4. End | 16. Reset |
| 5. Exclude | 17. Return |
| 6. Explode | 18. Right |
| 7. Export | 19. Save |
| 8. Find | 20. Top |
| 9. Explode | 21. Unfreeze |
| 10. Export | 22. Up |
| 11. Find | 23. Width |
| 12. Freeze | |

Explode can show data in hex for a long column. Export can put data in a spreadsheet and import can bring data in from a spreadsheet. Freeze can be used to keep data like the primary key on the display. Unfreeze removes data from the left that was previously frozen. Width can adjust the display width of one or more columns. Even edit line labels are supported.

User SQL

Any user result set from User SQL can be edited or viewed.

Finding the table or view to edit

Wild cards can be used in the name to find the table or view to edit:

```

testBase DB2 Edit
Command ==>
DB2 Subsystem==> DBCG
SQLID . . . ==> CSBI

For remote connection:
Connect Location ==> DBCGLOC (Blank or enter location)

Enter Object Creator and Name Or Pattern Below:
Creator . . . . ==> TDGF610P
Name . . . . . ==> EMPLOYEE*
Limit Search. . . ==> T (* All DB2 objects T Table V View )
(A Alias G Temp M MQI H Hist )

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or
Execute SQL SELECT from Dataset:
Data Set Name . . ==> QUERY ( Y / N - Edit Dataset )
Edit SQL . . . . . ==> N ( Y / N - Execute SQL from Dataset )
Execute SQL . . . ==> N
    
```

Predicates on a column are saved to make edit of sets of tables with cascaded primary keys easier (eg. – many tables with CUST_NUMB)

```

TestBase Selection Criteria
Command ==>
DB2 Location ==> DBCGLOC
DB2 Subsystem ==> DBCG
DB2 Object. . ==> TDGF610P.EMPLOYEE
Columns ==> 1 thru 38
Current SQLID ==> CSBI

SRT X COLUMN NAME COLUMN TYPE LENGTH PRED A
/SCALE NULL SEQ O PREDICATE
001 EMPNO CHAR 6 N A
002 FIRSTNAME VARCHAR 12 N A
003 MIDDLET VARCHAR 1 N A
004 LASTNAME VARCHAR 15 N A
005 WORKDEPT CHAR 3 Y A
006 PHONOEN CHAR 4 Y A
007 HIREDATE DATE 4 Y A
008 JOB CHAR 8 Y A
009 EDLEVEL SMALLINT 2 Y A
010 SEX CHAR 1 Y A = 'F'
011 BIRTHDATE DATE 4 Y A
012 SALARY DECIMAL 09,02 Y A
013 BONUS DECIMAL 09,02 Y A
014 COMM DECIMAL 09,02 Y A
    
```

Predicates can be reset or kept. The data is retrieved and shown for edit in the familiar ISPF Edit like interface:

```

TestBase Table Processor
Command ==>
width: Variable 00012
DB2 Location ==> DBCGLOC
DB2 Object. . ==> TDGF610P.EMPLOYEE
Columns ==> 1 thru 72 of 121 IX ==> P Lobs ==> N
Current SQLID ==> CSBI

EMPNO FIRSTNAME MID LASTNAME PT O HIREDATE JOB
-----
000001 000010 CHRISTINE T MAAS A00 3978 1965-01-01 PRES +00018
000002 000030 SALLY A KWAN C01 4738 1975-04-05 MANAGER +00020
000003 000070 EVA D PULASKI D21 7831 1980-09-30 MANAGER +00016
000004 000090 EILEEN W HENDERSON E11 5498 1970-08-15 MANAGER +00016
000005 000130 DOLores M QUINTANA C01 4578 1971-07-28 ANALYST +00016
000006 000140 HEATHER A NICHOLLS C01 1793 1976-12-15 ANALYST +00018
000007 000160 ELIZABETH R PTANKA D11 3782 1977-10-11 DESIGNER +00017
000008 000180 MARILYN S SCOUTTEN D11 1682 1973-07-07 DESIGNER +00017
000009 000220 JENNIFER K LUTZ D11 0672 1968-08-29 DESIGNER +00018
000010 000260 SYBIL V JOHNSON D21 8953 1975-09-11 CLERK +00016
000011 000270 MARIA L PEREZ D21 9001 1980-09-30 CLERK +00015
000012 000280 ETHEL R SCHNEIDER E11 8997 1967-03-24 OPERATOR +00017
000013 000310 MAUDE F SETRIGHT E11 3332 1964-09-12 OPERATOR +00012
    
```

TestBase **DB2 Edit** is fully integrated with the rest of the Testbase family.