

Comparing DB2 Tables and Views

Prerequisites and Restrictions

DB2 must be installed. See the section DB2 and SQL/DS in the **Predict and Other Systems documentation**

See also General Prerequisites for Comparison Functions.

Calling the Function

The Compare DD Objects with DB2 files screen is called with code C and object code T2 in any Predict main menu or with the command COMPARE TABLE.

```

09:44:12          ***** P R E D I C T 4.3.1 *****          2003-05-31
Plan    0          - Compare DD Objects with DB2 Files -          Profile HNO

File ID .....
Contained in DA ...

Check options          List options
File attributes .... Y (Y/N)      Files .....* D
Fields ..... Y (Y/N)            Fields .....* D
                                Members using differences .....* N

Update options
File attributes .... N (Y/N)
Field sequences .... N (Y/N)
Add fields ..... N (Y/N)
Purge fields ..... N (Y/N)
Field attributes ... N (Y/N)

Restrictions .....* Profile HNO ,used          Save set ..... N (Y/N)

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help Next Stop Last LnkEl Flip Print Impl AdmFi SelFi Prof Main
    
```

Parameters	
Selection criteria	
File ID	The ID of the Predict file object or objects which are to be compared with the connected DB2 tables or views. Asterisk notation can be used.
Files of type	Limit the function to files of the specified type.
Contained in DA	Limit the function to tables and views which reside in the specified database of type D. Asterisk notation can be used.
Check options	
If check options are not set, compare functions will not reset the Modified after generation flag. See Resetting the Modified after generation Flag for more information.	
File attributes	Y Attributes of the file are to be compared with the implementation of the file in DB2.
Fields	Y The field list of the file object is to be compared with the DB2 table or view.

List options	
Files	<p>How attributes of the Predict file object are to be displayed.</p> <p>Y All file attributes</p> <p>N No file attributes</p> <p>D Different: only file attributes whose Predict values differ from the implementation.</p>
Fields	<p>How fields linked to the Predict file object are to be displayed.</p> <p>Y All fields</p> <p>N No fields</p> <p>D Different: only fields whose Predict definitions differ from the DB2 table or view.</p>
Members using diff.	<p>Determines the amount of information to be displayed on members using fields that have been compared and whose Predict definition differs from the DB2 table or view</p> <p>Y Display the names and types of all member.</p> <p>N Do not display members.</p> <p>C Count the number of members per library.</p>
Update options	
File attributes	<p>Y Attributes of the Predict file object and, for files of type E, the subselect specification of the SQL create statement are to be updated. The triggers linked to the file via association <i>Has TR</i> are also updated.</p>
Field sequence	<p>Y The field list is to be rearranged to match the sequence of the fields in the DB2 table or view.</p>
Add fields	<p>Y Fields in the DB2 table or view missing in the field list are to be inserted in the field list.</p> <p>Distinct types not already documented in standard file SAG-DISTINCT-TYPE will be added as fields. The connection between the standard field and the table field will be established.</p>
Purge fields	<p>Y Fields that are missing in the DB2 table or view are to be removed from the field list.</p>

Field attributes	<p>Y Attributes of the fields linked to the Predict file object are to be changed to match the DB2 table or view.</p> <p>If a field has a connection to a standard field of SAG-DISTINCT-TYPE and the type definition differs from the DB2 catalog, the field attributes will be updated and the field will be marked non-standard.</p> <p>For files of type E, the attributes that are to be updated include the subselect specification of the SQL create statement for each field.</p> <p>Comments of fields are not updated.</p>
Save set	<p>Y Program types and names reported by the function are saved in a set. See also Saving the Result of Comparison Functions in Sets.</p>

Comparing DB2 Tables and Views in Batch Mode

Command: COMPARE TABLE

Enter parameters on the next line in positional or keyword form.

Field	Keyword	Position
File ID	FILE-ID	1
Files of type	TYPE	2
Contained in DA	DB	3
Check options		
File attributes	CHECK-FILE	4
Fields	CHECK-FIELD	5
List options		
Files	LIST-FILE	6
Fields	LIST-FIELD	7
Members using differences	LIST-PROGRAM	8
Save set	SAVE-SET	9
Update options		
File attributes	UPD-FILE	10
Field sequences	UPD-SEQUENCE	11
Add fields	ADD-FIELD	12
Purge fields	PURGE-FIELD	13
Fields attributes	UPD-FIELD	14

Example

To compare all files of type D or E with prefix 'TEST' and display all fields with a different definition, code the command:

```
COMPARE TABLE  
FILE-ID=TEST* ,LIST-FIELD=D
```

or

```
COMPARE TABLE  
TEST* , , , , D
```

The example above uses the Natural parameter ID=, and IA==