

# Incorporating DB2 Databases

## Prerequisites

Incorporation of DB2 objects is subject to DB2 security mechanisms. See the section DB2 and SQL/DS in the **Predict and Other Systems documentation**.

**Note:**

See Concepts of Incorporation for basic information on how to use incorporation functions.

## Selecting DB2 Databases

The Incorporate DB2 database screen is called with function code I and object code D2 in a Predict main menu or with the command INCORPORATE DB2.

```

09:23:24          ***** P R E D I C T  4.3.1  *****          2003-05-31
Plan    0          - Incorporate DB2 Databases -

DB2 database name ....

Select option
  Creator name .....

Processing option
  Connect automatic .. N (Y/N)
    
```

| Parameters        |   |
|-------------------|---|
| DB2 database name | DB2 database name. Asterisk notation is allowed.  |
| Creator name      | Creator name. Asterisk notation is allowed.   |
| Connect automatic | <b>Y</b><br>The DB2 database and the Predict object will be connected by the Compare function (code T) if no differences were detected between the file lists of the two objects. |

Databases which meet the selection criteria and are not already connected to a Predict database object will then be listed as follows.

```

13:09:09          ***** P R E D I C T  4.3.1  *****          2003-05-31
- Incorporate DB2 Databases -
Search-crit.: DB2 database name=ALL
                Database Default
Cmd Creator  name      stogroup Predict database ID      Remark
___ BHD      ABAG      SYSDEFLT
___ BHD      ADAPT1    SYSDEFLT
___ BHD      DSNCV     SYSDEFLT
___ BHD      DSNDB07   SYSDEFLT
___ BHD      DSNDDF    SYSDEFLT
___ BHD      DSNRGFDB  SYSDEFLT
___ BHD      DSNRLST   SYSDEFLT
___ BHD      LANDMARK  LMRK0001      SC missing
___ BHD      RISPADB   RISPASTO      SC missing
    
```

| Columns in the List  |  |
|--|--|
| Creator  | Creator of the database.   |
| Database name  | Name of the database   |
| Predict database ID  | ID of Predict database object for a DB2 database with this DB2 name.   |
| <b>Remark</b>  |  |
| Either the following type-specific remark or blank.<br>For type-independent remarks see Remarks which apply to all Object Types. |  |
| SC missing   | Default storagegroup is not documented. Incorporation is not possible. |

## Incorporation Functions for DB2 Databases

The functions T, C and I apply.

### Compare - Code T

Compares the database and the Predict database object and reports differences between attributes and file lists.

If no differences between the file lists are found and Connect automatic is set to Y, the dictionary object is connected to the database.

### Connect - Code C

Connects the DB2 database to the corresponding Predict database object and

- copies current information from the DB2 catalog into the dictionary object;
- writes to the generation log of the Predict database object that a corresponding implemented database existed when the connection was established.

### Incorporate - Code I

#### Scope of the Incorporation

- Creates a database object of type D with attributes documenting the database.
- The new database object is linked to the Predict object documenting the current virtual machine via association *Contains DA*.
- Connects the database and the Predict database object.

Before the function is executed, specify the following parameters in an additional input screen. The parameter Database ID is mandatory, the other parameter optional

| <b>Incorporation Options</b> |  |
|------------------------------|--|
| Database ID                  | ID of the new Predict database object.<br>The creator and DB2 name of the database joined by a hyphen is displayed and can be accepted or overwritten. |
| List incorporated code       | <b>Y</b><br>the values of all attributes incorporated for the database are to be listed.   |

## Incorporate DB2 Databases in Batch Mode

Command: INCORPORATE DB2-DATABASE

Enter parameters on next line using positional or keyword form.

| <b>Field</b>           | <b>Keyword</b> | <b>Position</b> |
|------------------------|----------------|-----------------|
| DB2 database name      | DB2NAME        | 1               |
| Creator name           | CREATOR        | 2               |
| Connect automatic      | AUTO-CONNECT   | 3               |
| Function               | SUB-FUNCTION   | 4               |
| Database ID            | DATABASE-ID    | 5               |
| List incorporated code | LIST           | 6               |

### Example

To incorporate the DB2 database 'DSN8D13A' as database object in Predict with ID 'TEST-DB' and display the database attributes, code the command:

```
INCORPORATE DB2
DB2NAME=DSN8D13A , SUB-FUNCTION=I , DATABASE-ID=TEST-DB , LIST=Y
```

or

```
INCORPORATE DB2
DSN8D13A , , I , TEST-DB , Y
```

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