



# DB2ICF

## Integrity Control Facility for DB2

### The DB2 Workbench for DBA's, developers and operators

/// Simplify DB2 administration, management and operation

/// Streamline DB2 security administration and housekeeping

/// Automate routine DB2 tasks

/// Control DB2 related restart and recovery functions

/// Reduce the duration of DB2 outages

/// Maintain an audit trail of who did what and when to DB2 objects

/// Automate the DB2 Housekeeping (Backup, Reorg, Runstats)

#### What does it do?

*DB2ICF* (the Integrity Control Facility for DB2) provides a comprehensive workbench for DBA, developer and operator functions. *DB2ICF* simplifies many restart, recovery and repair functions to save time, reduce errors and minimize outages. The product generates DB2 utility jobstreams which can be run automatically as part of the standard operational cycle and includes extensive facilities to display and interpret objects in the DB2 catalog. *DB2ICF* provides significant aids for disaster recovery of an entire DB2 subsystem, supports point-in-time recovery, and produces a complete audit trail.

#### Benefits

- Automate DB2 administrative tasks and ensure their accuracy
- Shield users from SQL syntax and the need to code DB2 utilities, commands and JCL
- Eliminate manual, error prone procedures
- Automate database recovery and repair
- Facilitate disaster recovery for an entire DB2 system
- Provide extensive support for point-in-time recovery
- Reduce the expertise required to perform many DB2 functions
- Facilitate investigation of DB2 performance and space utilization
- Save time, reduce errors and ensure accuracy

#### Features

Provides an ISPF dialog interface for all DB2 commands, utilities and service aids

Provides predefined queries for DB2 catalog navigation

Automatic generation of full-, incremental- and mergecopies and modify recovery for groups of databases, based on real time statistics

Lets you run DB2 utilities in the TSO foreground

Provides a complete interface for the LOAD utility (which is also easy for application programmers to use)

Lets you define and manipulate the VSAM datasets associated with DB2 objects

Lets you backup, recover and reorganize the DB2 catalog and directory

Displays discrepancies between the DB2 catalog and VSAM ICF catalogs

Provides procedures to reinstate the default database (DSNDB04) and work database (DSNDB07)

Lets you optionally run queries against a DB2 "shadow" catalog

Supports DB2 utilities from IBM and other vendors

## Foreground and background functions

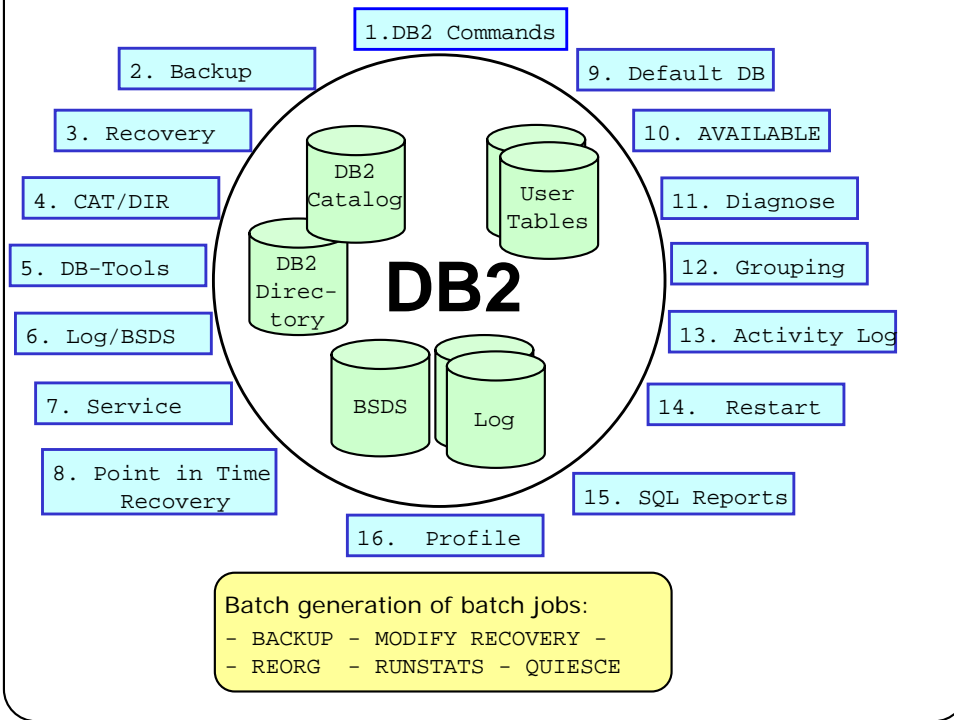


Figure1. Foreground and Background Functions

```

TD01/DD          Primary Option Menu
Option ==>

1  COMMAND      DB2 Commands
2  BACKUP       Image Copy / Merge Copy
3  RECOVERY     Tablespace & Index Recovery/Index Rebuild
4  CAT/DIR     CAT/DIR Utilities & Functions, WORKDB, RLF
5  DB-TOOLS    LOAD, STOSPACE, RUNSTATS, REORG, CHECK, REPAIR, QUIESCE, REPORT
6  BSDS        Bootstrap Dataset Maintenance / Archive Tape Substitution
7  SERVICE     DSN1CHKR, DSN1COMP, DSN1COPY, DSN1LOGP, DSN1PRNT, DSN1SDMP,
              DSNJLOGF, EXPAND, DEFCL
8  PIT         Point in Time Recovery
9  DEFDB       Maintain Default Database (DSNDB04)
A  AVAILABLE   Resource Availability
D  DIAGNOSE    Diagnose Utility
G  GROUPING    Database, Tablespace, Storage Group Functions
L  ICF-LOG     Activity Log Functions
R  RESTART     Utility Restart
S  SQL/REPORT  DB-Administration SQL Queries and Functions

P  PROFILE     ICFforDB2 Profile
X  EXIT        Terminate ICFforDB2

Press END key to return to the Environment Selection Panel.
    
```

Figure2. DB2ICF Primary Option Menu

```

TD01/DD          Point in Time Recovery
Option ==>

User - T035686
Date - 02/04/17
      - (02.107)
Time - 14:29

1  Recover a single tablespace (ToRBA/ToLOGPOINT, ToTimestamp)
2  Recover objects in referential constraints to a quiesce point
3  Recover all objects of a ICFforDB2 group to a quiesce point
4  Recover all objects of a DB2 storage group to a quiesce point
    
```

Figure3. Point in Time Recovery

## Operation

DB2ICF makes managing and maintaining your DB2 subsystem easy. The product provides an intuitive and task oriented interface that lets you perform a multitude of functions with a single tool. These includes the ability to:

- Generate DB2 utility jobstreams for such functions as REORG, COPY, QUIESCE and RECOVER
- Create groups of tablespaces and/or databases
- Invoke DB2 commands directly from the workbench
- CREATE and DROP DB2 objects
- GRANT and REVOKE authorizations
- Perform point-in-time recovery from simple tablespaces to referentially related sets of data with automatic index rebuild
- Display and maintain stored procedure definitions
- Administer resource limit specification tables and EDITPROC's
- Detect unavailable resources and report why they are unavailable

## Prerequisites

DB2ICF requires the following software: DB2 V3.1 and subsequent releases z/OS V1R2 and subsequent releases

## Who will Use DB2ICF

|                        |   |
|------------------------|---|
| Application Developers | ✓ |
| End Users              |   |
| DBAs                   | ✓ |
| Operations             | ✓ |
| Technical Support      | ✓ |
| Systems Programmers    | ✓ |

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