



Db2 catalog management

Efficient information retrieval and maintenance task execution for Db2

InSync® DBA provides clear and concise access – across the diverse user landscape – to the Db2 Catalog

In today's sophisticated 24x7 Db2 sites, the classic challenge of decreasing downtime windows, coupled with little, if any, toleration for mistakes, inevitably makes database management an onerous task. InSync® DBA, Macro 4's Db2 catalog management solution, helps to overcome these challenges by providing:

- Clear and concise access to the Db2 catalog, allowing detailed object management with unprecedented ease
- Secure functions that enable security administrators and application developers to alleviate bottlenecks that often rest with database administrators
- Distributed data facility services for connected Db2 subsystems
- Seamless integration with InSync® Db2 functions to browse and edit data, with or without SQL queries
- Extensive, dynamic EXPLAIN support
- A simple and intuitive user interface that allows tasks to be undertaken precisely and efficiently

Db2 change management and administration

Today's sophisticated Db2 environments expose database administrators (DBAs) to the classic frustrations of minimal downtime and little, if any, toleration for mistakes – and it doesn't stop there: DBAs, security administrators and application developers all have a stake in precision Db2 systems management.

InSync® DBA alleviates these pressures for Db2 technicians by providing quick and accurate access to the Db2 catalog to retrieve information and perform maintenance and development tasks simply and efficiently.

Simple and intuitive user interface

InSync® DBA employs intuitive features that transform complex navigation requirements into easy-to-use screen views and dialogs:

- User interactions are accomplished via standard ISPF conventions
- Intelligent data gathering options can save time by bypassing displays, where retrieval would be overly time consuming
- Variable dialogs allow items to be viewed top down and bottom up
- Unique SORT/FILTER facilities enhance output viewing
- Panel displays can be printed in softcopy and hardcopy modes; softcopy files are immediately available for editing

Macro 4's integrated suite for fault analysis and testing on z/OS:

DumpMaster

Fault analysis and recovery

InSync®

Data management and manipulation

TraceMaster

Interactive testing and debugging

TraceMaster CodeTrack

CICS code path analysis and storage violation detection

Database administrators

InSync® DBA provides simple and precise navigation around catalog tables, with online help and drill-down facilities for essential plan, package and DBRM management services.

Db2 utility control statements and JCL are easily generated, and detailed object management can be performed effortlessly, including drop impact analysis. Additionally, database administrators can:

- Create exception services to allow a class of objects to be selected for investigation (database, tablespace, table name, plan and package)
- Qualify group objects to be investigated (such as wildcarded name or 'owner')
- Specify object subset exceptions (for example: table exceptions for a missing primary index, RUNSTATS required, no static SQL)
- View exception results and initiate remedial action with database administrative services
- Make use of distributed data facility (DDF) services for connected Db2 subsystems:
 - Navigate the DDF tables within the Db2 catalog
 - Select a table and maintain communications definitions
 - Allow easy maintenance of resource limit tables used by the Db2 governor

Security administrators

InSync® DBA allows security administrators to:

- Navigate the Db2 authorization tables
- Review existing privileges; optionally revoke, grant or model for new grants
- Investigate WITH GRANT GRANTOR/GRANTEE chains, both forward and backward
- Document authorization IDs with optional 'user' tables

Application developers

Dynamic SQL support is provided by InSync® DBA, enabling:

- Immediate online answers to be obtained for SQL queries
- SQL to be entered directly, included from a library, or cut and pasted from another source

Additionally, the dynamic explain support function is of particular use to application developers and provides the facility to:

- Create EXPLAIN tables online
- Rebind existing plans/packages with the EXPLAIN option
- Set up HINTS as required, such as rebind
- Execute dynamic EXPLAIN with individual SQL commands and then view the resulting plan table
- Examine access strategy online, verifying how SQL will perform before it is compiled and bound
- Execute the EXPLAIN edit macro – from ISPF, block the lines of SQL code in your source program and view the dynamic EXPLAIN results

Users can 'model' catalog definitions for tables, views, indexes and so on, to generate the SQL necessary to define new objects of the same type and with the same attributes, without having to know the SQL syntax involved.

From table and view lists, line commands are available to invoke InSync® Db2 functions that provide:

- Browse or edit, with or without specifying selection criteria
- Related browse/edit where up to two further related tables/views may be browsed or edited at the same time

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