

CA RC/Update™ for DB2 for z/OS



At a Glance

CA RC/Update™ for DB2 for z/OS (CA RC/Update) automates labor-intensive tasks related to changing DB2 objects and data. It provides a development environment for the application developer, an editor and data copy feature for the end user and sophisticated object management facilities for the database administrator (DBA). These features help simplify database administration tasks, reduce database downtime and increase DBA productivity.

Key Benefits/Results

- **Object management capabilities.** Easily creates and maintains DB2 objects
- **Data management capabilities.** Leverages the data in your DB2 tables in test and production environments, increasing productivity and reducing data manipulation errors
- **Advanced features.** Increases productivity when working with both DB2 objects and SQL

Key Features

- **Simplify object management.** CA RC/Update creates, alters and drops DB2 objects—without having to remember object names, options and DDL syntax. It enables non-DB2 supported alterations to an object and analyzes the impact of a drop before the changes are made helping you avoid the accidental dropping of required objects. In addition, it calculates space required to create table spaces and index spaces reducing failures that occur as a result of out-of-space conditions.
- **Simplify data management.** CA RC/Update enables you to view and manipulate DB2 table data and provides an edit capability with independent or synchronized scrolling. In addition, it can copy data between tables and help eliminate manual data comparison processes, increasing productivity.

Business Challenges

During development and maintenance activity on application systems, alterations are always required to DB2 structures. Although data is not—or should rarely be—touched by manual intervention on production systems, this is not the case in development or test systems. Update of tables to insert, update, delete and modify table data is frequently required for testing purposes.

The generation of job control language (JCL), data definition language (DDL) and utility statements is a regular task in development or test environments as this is often when this type of code is initially written.

Manually editing referentially related data and manual data comparing is a very labor-intensive task. Moreover if test data has to be created keeping the RI intact, data entry can be very time-consuming for the user. Efficient data editors with RI data handling capabilities come to rescue in this case.

When making a non-DB2 supported alteration to an object, such as adding a column into the middle of a table or reducing the size of a column, the object must be dropped and recreated with a new definition. Its dependent objects and authorization chains must then be recreated and its data must be reloaded, making this an error-prone, difficult process.

Solution Overview

CA RC/Update provides a development environment for the application developer, an editor and data copy feature for the end user and sophisticated object management facilities for the DBA. In addition, it provides DB2 object creation and alteration capabilities, DB2 data-related edit, data compare and data copy functions as well as structured query language (SQL) testing and execution.

CA RC/Update enables you to alter DB2 structures and update DB2 data. It generates all DDL and utility statements to carry out updates to the DB2 catalog with no manual intervention needed. In addition, it enables you to make ad-hoc changes to DB2 database objects and, if required, generates the code to make the change online or in batch. It can also browse and edit table data, copy data from one table to another or compare data records from one table to another.

Critical Differentiators

CA RC/Update automates many labor-intensive tasks typically associated with altering DB2 objects and data. With CA RC/Update, you can create and maintain DB2 objects and test embedded SQL in programs. CA RC/Update also provides an easy-to-use, intuitive process for inserting, deleting and modifying data in referential structures. These advanced features help simplify administration tasks, reduce database downtime and increase productivity.

CA RC/Update includes additional features that help you increase productivity when working with both DB2 objects and SQL:

- **Visualize the RI structure.** View the structure online, in an indented tree format.
- **Test embedded SQL statements.** CA RC/Update eliminates the need to pre-compile the entire program to syntax check the SQL and view the execution results, saving time and resources.
- **Audit Report.** CA RC/Update logs each DDL statement executed as well as every edit or browse session. It enables you to produce reports from the log to review and audit object creation, alteration and deletion. This audit trail makes the log invaluable in tracking changes to DB2 objects. The DB2 catalog does not record when an object is dropped or altered.

Related Products/Solutions

- **CA RC/Migrator™ for DB2 for z/OS.** Handles schema object definition changes
- **CA RC/Query® for DB2 for z/OS.** Provides catalog management capabilities
- **CA RC/Extract™ for DB2 for z/OS.** Moves in context to browse and template table data
- **CA SQL-Ease® for DB2 for z/OS.** Performs DB2 EXPLAINS, displays predicates

For more information, please visit [ca.com/db2](https://www.ca.com/db2)

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