

CA Database Analyzer™ for DB2 for z/OS



At a Glance

CA Database Analyzer™ for DB2 for z/OS (CA Data Analyzer) provides robust database monitoring and analysis capabilities to help uncover database errors, prevent data loss and simplify administration. It is designed to increase database administrator (DBA) productivity by leveraging existing DB2 Real-Time Statistics (RTS) and collecting new statistics on DB2 objects to automate DB2 housekeeping, utility scheduling and execution and to perform space management following user-defined thresholds.

Key Benefits/Results

- **Sophisticated analysis.** Gather and use comprehensive statistics to provide graphs, trending and forecasts
- **Flexible scripting language.** Provides customizable predefined rules, conditions and job control language (JCL) templates
- **Efficient processing.** Utilizes zIIP technology, processes objects concurrently, allocates multiple buffers, exploits extended memory and utilizes fast I/O

Key Features

- **Control object processing.** Provides a set of seamlessly integrated components that enable you to define which DB2 objects to process and what actions to perform on those objects
- **DB2 real-time statistics (RTS) utilization.** Uses RTS to evaluate conditions and trigger the appropriate actions
- **Statistics collection.** Gathers and stores more than twice the number of statistics available in IBM DB2 RUNSTATS alone through zIIP-enabled tasks
- **Automated object maintenance.** Provides the ability to set up thresholds that trigger the desired action without requiring user interaction
- **Reporting.** Provides a complete online query and batch reporting system for viewing the results of statistics collection in easy-to-read reports

Business Challenges

Today, most DBAs have their hands full dealing with rapidly evolving systems and applications, leaving them with little to no time for the essential tasks of analyzing, tracking, managing and optimizing physical DB2 objects. Enterprises need a solution that can conduct sophisticated analysis and proactively suggest corrective actions to keep DB2 databases performing optimally.

Solution Overview

DB2 real-time statistics (RTS) utilization

- **Triggers:** Uses RTS to identify objects for maintenance, to gather statistics or run reports
- **JCL generation:** Uses RTS to create object maintenance JCL

Statistics collection

- **Maintenance statistics:** Identifies the need for image copies, reorgs, etc.
- **Direct access storage device (DASD) statistics:** Tracks and helps plan capacity needs
- **Tuning statistics:** Identifies data needed for optimizing objects
- **Predictive statistics:** Shows object improvement after processing
- **Utility statistics:** Shows the utility execution history

Automated object maintenance

- **Object Selection:** Provides comprehensive conditions with suggested thresholds
- **Template JCL:** Provides model JCL for each object maintenance function
- **Execution options:** Enables the execution of triggered actions right away, for later manual execution or to use a job scheduler

Critical Differentiators

- **Real Time Object Selection (RTOS).** Selects objects dynamically, based on whether they meet the specified object maintenance criteria, instead of requiring you to select them by name
- **RUNSTATS automation.** Automates the execution of RUNSTATS based on RTS
- **Automatic resize.** Resizes the PRIQTY and SECQTY for under- or over-allocated table and index spaces based on RTS
- **Automatic reorganization.** Runs REORGS based on predefined thresholds triggered by RTS values
- **Reporting options.** Generates reports to give DBAs insight into trends and help forecast events such as when a tablespace will go into another extent as well as table row distribution, space analysis, free space analysis, index content analysis, column analysis and frequency values
- **New objects types and attributes.** Tracks statistics for HASH, LOB and XML table spaces and indexes with HASH, SPARSE or EXCLUDE NULL KEYS attributes

Related Products/Solutions

CA Database Analyzer is integrated with the following CA Technologies products:

- CA Fast Check® for DB2 for z/OS
- CA Fast Index® for DB2 for z/OS
- CA Fast Load for DB2 for z/OS
- CA Fast Recover™ for DB2 for z/OS
- CA Fast Unload® for DB2 for z/OS
- CA Merge/Modify™ for DB2 for z/OS
- CA Quick Copy for DB2 for z/OS
- CA Rapid Reorg® for DB2 for z/OS
- CA Chorus™ Software Manager (CA CSM)

For more information, please visit ca.com/db2

CA Technologies (NASDAQ: CA) creates software that fuels transformation for companies and enables them to seize the opportunities of the application economy. Software is at the heart of every business, in every industry. From planning to development to management and security, CA is working with companies worldwide to change the way we live, transact and communicate – across mobile, private and public cloud, distributed and mainframe environments. Learn more at ca.com.