

CA Detector and CA Subsystem Analyzer for DB2 for z/OS r16: Core Functions 200



PRODUCT RELEASE

CA Detector and Subsystem Analyzer

COURSE DURATION & COURSE CODE

- Web-Based Training (WBT)
- Two (2) Hours
- Course Code: 06DBT20500

PREREQUISITES

- Experience with DB2

WHO SHOULD ATTEND

- Database Administrators
- Performance Analysts
- Application Developers
- System Programmers

Course Overview

CA Detector and CA Subsystem Analyzer are DB2 database performance management products that evaluate and manage application performance. CA Detector provides in-depth analysis capabilities that help you to identify the programs, SQL statements and database objects that most significantly affect your DB2 performance.

CA Subsystem Analyzer accelerates database performance tuning and analysis by providing the ability to analyze object activity at the database, tablespace, table, and index, data set, and data set extent levels and evaluate getpage activity, physical I/O activity, and buffer pool hit ratios for all tablespaces and indexspaces referenced on your subsystem.

This course will show you how to set up and use data collection using CA Detector and CA Subsystem Analyzer.

What You Will Learn

- How CA Detector can enhance your existing DB2 monitoring process.
- Customize collection profiles in Detector.
- Review and interpret Detector data collection.
- Review and interpret Subsystem Analyzer data collection.
- Generate daily and detailed batch reporting.

For Managers

CA Detector enables your Database Administrators to optimize SQL and conserve resources. It also helps to minimize development costs by identifying poorly performing SQL during the application development cycle well before it is released into a production environment. CA Subsystem Analyzer saves Database Administrators time by consolidating information in a clear, concise view, allowing them to quickly understand underlying subsystem performance, DASD usage and contention and buffer pool activity.

A complete understanding of these products will help your Database Administrators and Developers improve system efficiency and costs.

Course Agenda

Module 1 – Overview	Module 2 – Setup
<ul style="list-style-type: none"> ▪ Understand how CA Detector can enhance your existing DB2 monitoring process. ▪ Understand how to evaluate your DB2 application characteristics and associated resource utilization. 	<ul style="list-style-type: none"> ▪ Understand the components of a collection profile and how to tailor SQL and SQL error collection by specifying threshold values or excluding conditions that are of no interest.
Module 3 – Standard Collection	Module 4 – Exception Collection
<ul style="list-style-type: none"> ▪ Navigate CA Detector standard collection real time or historical activity identifying top resource consumers from plan name, package, key values and SQL statement perspectives. ▪ Explain a dynamic SQL statement or package using PPA Quick Explain. 	<ul style="list-style-type: none"> ▪ Capture and investigate detailed metrics for SQL statements that exceed chosen resource thresholds.
Module 5 – Error Collection	Module 6 – Subsystem Analyzer Object Collection
<ul style="list-style-type: none"> ▪ Quickly determine which SQL errors are occurring in a DB2 subsystem. ▪ You can select an SQL code and view all users or programs that encountered the error and see the SQLCA Messages and the SQL text. 	<ul style="list-style-type: none"> ▪ Navigate Subsystem Analyzer collection real time or historical activity identifying the most frequently accessed objects and how they are being accessed. ▪ Identify SQL responsible for table or index getpage activity. ▪ View DB2 subsystem statistics to determine if they have an impact on application performance for the collection interval.

Course Agenda Continued

Module 7 – Batch Reporting

- Setup and execute a PDTBATCH job to generate reports against standard, exception and error collection activity, using the various report options.

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