IBM Db2 12.1: Performance and Tuning Optimization for Relational DBAs

Duration: 1 Day Course Code: CLA94G

Overview:

This course equips experienced database administrators with the skills needed to analyze, tune, and optimize the performance of IBM Db2 12 for Linux, UNIX, and Windows.

Participants will learn how to interpret and influence the Db2 query optimization process using statistical metadata, develop efficient indexing strategies for high-performance workloads, and apply advanced tools such as EXPLAIN, db2pd, and the Db2 Data Management Console to evaluate and refine SQL access paths.

The course also introduces the Db2 AI Optimizer and automation techniques that simplify statistics collection and performance diagnostics. Emphasis is placed on real-world use cases, practical monitoring methods, and proactive tuning practices to ensure scalable and efficient database operations in enterprise environments.

Target Audience:

This advanced course targets experienced database administrators.

Objectives:

- **After completing this course, learners should be able to:**
- Configure and manage statistics profiles to guide and automate statistics collection procedures
- Evalue the impact of the Db2 AI Optimizer on query plan generation and performance recommendations
- Design and implement optimal indexes for performance based on workload analysis and query structure
- Utilize the Db2 Design Advisor to obtain and implement index recommendations for performance gains
- Capture and interpret EXPLAIN data using tools such as db2exfmt, db2expln, and Activity Event Monitor
- Use SQL-based table functions and administrative views to retrieve real-time and historical monitoring data
- Leverage the Db2 Data Management Console to visualize resource usage and performance indicators

Prerequisites:

Prior to enrolling in this course, participants should have:

- Completed CLA90G, CLA91G, and CLA93G or have equivalent experience
- A working knowledge of Db2 database administration
- A basic understanding of SQL and query design
- Familiarity with Db2 system catalogs
- Exposure to Db2 utilities and monitoring commands

Testing and Certification

None

Follow-on-Courses:

None

Content:

Unit 1: Statistics and Query Optimization

Unit 2: Indexing for Performance Improvements

Unit 3: Using EXPLAIN Tools for Query Optimization

Unit 4: Monitoring Fundamentals

Additional Information:

Official course book provided to participants.

Further Information:

For More information, or to book your course, please call us on Head Office Tel.: +974 40316639

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