



"Charting the Course ...

... to Your Success!"

Advanced SQL for Db2 LUW

Course Summary

Description

This course for Db2 on Linux, UNIX, and Windows covers advanced SQL coding techniques. This course assumes a good understanding of basic SQL and builds on that knowledge to provide a good understanding of the entire SQL language as implemented within Db2 for LUW.

Topics

- Review of Common SQL Constructs
- Finding errors
- Functions
- Accessing multiple tables
- More advanced constructs
- Processing implications
- Evaluating SQL Performance

Audience

This course is designed for Db2 DBAs and experienced developers.

Prerequisites

There are no prerequisites required for this course.

Duration

Three days



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Course Outline

I. Review of Common SQL Constructs

- A. IN, LIKE
- B. CASE expressions
- C. CAST expressions

II. Finding errors

- A. Common errors
- B. SQLCODE and SQLSTATE messages
- C. Debugging techniques for complex statements
- D. Testing complex SQL

III. Functions

- A. Scalar, column, row and table functions
- B. External, SQL, and sourced user-defined functions
- C. OLAP expressions and window partitioning

IV. Accessing multiple tables

- A. Joins
- B. Subselects
- C. Outer joins
- D. Unions
- E. Star joins

V. More advanced constructs

- A. Temporary tables
- B. In-line SQL
- C. Recursive queries
- D. Merge statements

VI. Processing implications

- A. Overview of access paths
- B. When indexes are used
- C. Range delimiting and sargable predicates
- D. Factors used in access path selection
- E. Join methods

VII. Evaluating SQL Performance

- A. Explain tables and Db2exfmt
- B. Db2expln
- C. Visual Explain