

Duration: 2 days

Course Number: ISI-DB2-06

Description

This course teaches students techniques to analyze and improve the performance of their DB2 SQL. Upon successful completion of this class, students will be able to:

- Discuss overall DB2 Performance considerations.
- Run the EXPLAIN PLAN SQL statement and analyze results.
- Analyze the column values in the PLAN_TABLE.
- Analyze the column values in the DSN_STATEMNT_TABLE.
- Review how to tune / rewrite SQL queries to improve their efficiency.
- Develop a set of performance guidelines.
- Run the Plan Analyzer to see the results of the EXPLAIN process.

A series of written and lab exercises will be used to reinforce the classroom education.

Audience

Experienced Data Processing personnel who have used SQL and need to explore application performance and tuning issues.

Prerequisites

- At least six months experience using DB2 SQL.

Course Agenda

Day 1

- Performance Overview with Guidelines
 - Workshop: The EXPLAIN statement and the PLAN_TABLE
- Tuning Guidelines and Examples
- EXPLAIN with Examples – TS, MIS, NMIS, IXONLY, SORT, Part Scan
 - Workshop: More EXPLAIN exercises - Part 1
- SQL Coding Guidelines
- Workshop – Reformatting SQL Statements
- Using EXPLAIN to Improve SQL Performance
 - Workshop: More EXPLAIN exercises - Part 2

Day 2

- The DSN_STATEMENT_TABLE
- Improving SQL Statements Using EXPLAIN Results
 - Workshop: EXPLAIN - the DSN_STATEMENT_TABLE and the PLAN_TABLE
- Using the Plan Analyzer to Understand the Results of the EXPLAIN Process
 - Workshop: Using Plan Analyzer