



DB2 for z/OS SQL Advanced

Length: 2 Days

Course Description: Review SQL - Basic Select, Scalar Functions, Joins, SubQueries, Unions, and Insert / Update / Delete. Learn and practice features of the current version of DB2 and look into the next version of DB2. Review and practice Advanced SQL features. The following "Release Dependent" features can be covered as needed –Version 8 – Table-Controlled Partitioning, Common Table Expression, Dynamic Scrollable Cursors, multi-row FETCH and INSERT, GET DIAGNOSTICS, Recursive SQL, Sequence Objects, Scalar Full Select, Select statement In An Insert statement, Delimited LOAD / UNLOAD, MQT's Version 9 – PureXML, New Data Types - bigger BINARY, VARBINARY, BIGINT, DECFLOAT, INSTEAD OF triggers, INTERSECT and EXCEPT, TRUNCATE Statement, MERGE Statement, Native SQL Stored Procedures, Optimistic Concurrency Control, Automatic Object Creation, Skip Locked Data, REOPT (AUTO)

Audience: Experienced personnel who have used SQL and need to refresh / deepen their current skills and learn and use "advanced" SQL topics.

Prerequisites: At least six months experience using DB2 SQL.

DAY 1

- Introduction to DB2
- Course Introduction
- DB2 - Concepts, and Terminology
- Structured Query Language (SQL)
- The SELECT Statement
- Database 2 Interactive
- SQL 2 - Special Features
- SQL 3 - ORDER BY, GROUP BY, HAVING
- SQL 4 - Join, Sub-select, UNION
- SQL 5 - Data Definition Language



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- SQL 6 - INSERT, UPDATE, DELETE
- SQL 7 - Data Control Language
- SQL Programming V - Other Programming Considerations
- Hands-on Lab - SQL Review and Refinement
- Question and Answer Session

DAY 2

- DB2 Performance Considerations - Overview
- DB2 Catalog and Runstats
- Concepts In DB2 Efficiency
- DB2 Explain and Visual Explain
- DB2 Additional Version 8 and 9 features
- Hands-on Lab - SQL Review and Refinement
- Question and Answer Session

APPENDICES:

Appendix A - IBM Sample Tables	Appendix I – DB2 for WINDOWS Overview
Appendix B – Bibliography	Appendix J – Additional Features - UDT / UDF, Trigger, Casting
Appendix C - The Programming Workshop	Appendix K – Group By Extensions
Appendix D – Plan_Table & Dsn_Statemnt_Table	Appendix L – Visual Explain Overview
Appendix E - Hints to Success	Appendix M – Functions
Appendix F – SQLCODES / SQLSTATES	Appendix Z8– Changes Summary - DB2 V 8
Appendix G – QMF Overview	Appendix Z9 - Changes Summary - DB2 V 9



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Appendix H – Stored Procedures	Appendix Z9 - AppV9B - DB2 V9 Summary from IDUG Solution Journal
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