

DB2 for z/OS SQL & Fundamentals

This course teaches DB2 SQL basics and DB2 Fundamentals required to maximise the use of DB2 for z/OS.

The intended audience for this class is IT personnel that use DB2 in their work in database administration, application development, design and programming.

Increase confidence and competence in your DB2 for z/OS environment. Reduce programmer inefficiencies that affect system capacity and lost time due to resolving SQL problems.

Major Topics Include:

Concepts and Facilities
DB2 Usage Architecture
SQLCODE and SQLSTATE
DB2 Optimizer
DB2I and QMF

Using SQL
SELECT statment
Data Type Conversion
String Manipulation
Subselect
Joins
Insert/Update/Delete
RI and Updates

Index usage for Performance
Index Structure Details
Clustering Index
Using index to avoid SORT
Index Lookaside
Multiple/Composite Indexes

Program Development
Testing SQL statements
Commit frequency
Scrollable Cursors
Optimize for n Rows
Identity Columns

Error Management
SQL Communication Area
CHECK clause
Using RI for validation
SQL standards enforcement
SQL Error Handling

Batch Processing
Case Study
Index vs Tablespace Scan
Deleting rows with REORG
Concurrent batch and online
RESTART alternatives

Programming for Performance
Stage 1 and 1 Predicates
CASE Expressions
Host variables
LIKE use of Indexes
Predicate evaluation order

Sort and List Prefetch
Avoding SORTs
UNION & UNION ALL in views
Multiple Indexes
List Prefetch Thresholds
Sort and RID Pool Sizing

Unique Features
Course materials developed using classroom experience since 1984. Updated for the latest versions of DB2 for z/OS V9, V10

Instructor
Instructor worked in the IBM Mainframe Environment, supporting DOS/VSE, MVS, OS/390, z/OS, CICS/VSAM, IMS and DB2 since 1988

Duration
3 Days

Format
Classroom (with written exercises)

Certification

All attendees will receive an attendance certificate.



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