

Indus IT Training

Course: DB2-UDB-9 Training Course Curriculum

Duration: Six Weekends / (Sat & Sun: 1:30 pm– 5:30pm) - Approx. 60hrs

DB2 UDB 9 on Linux/Unix/Windows (LUW) Database Administration Curriculum

DB2 Products and Editions Overview

DB2 Tools Overview

DB2 Big Picture

- DB2 UDB Architecture
- Create Instance, Database, Bufferpools, Tablespaces, Tables, Indexes
- Catalog Database

DB2 Servers & Clients: Installation & Configuration

- ✓ DB2 Instance Creation & Upgrades, Administration Server (DAS)
- ✓ Environmental & Configuration Parameters
- ✓ DB2 Client/Server Connectivity, DB2 Connect
- ✓ Memory Management, Self Tuning Memory Management (STMM)
- ✓ Storage Model
- ✓ Process Model

DB2 Security

- ❖ Authentication, Authorization, & Privileges

DB2 Objects In-depth

- ❖ Types of Tablespaces, Tables, Indexes, Views, Identity Columns, Sequence Objects
- ❖ Bufferpool Considerations
- ❖ In-built & User-defined Data Types
- ❖ Referential Constraints (Foreign Keys), Check Constraints,

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DB2 Storage Management In-depth

- ✚ Database Directory Structure
- ✚ Automatic Storage, System Temporary Storage o DMS vs. SMS
- ✚ Clustering Index, Multi-Dimensional Clustering (MDC), Summary Tables (MQTs), Table Partitioning, Row Compression Considerations

Database Access & Programming Techniques

- ✚ DDL, DML, & DCL
- ✚ Inbuilt Functions
- ✚ SQL Stored Procedures, User-defined Functions (Scalar & Table), & Triggers
 - Concept of Cursors
- ✚ Common Table Expressions o Global Temporary Tables
- ✚ Understanding Unit of Work/ Transaction
- ✚ Isolation Levels, Lock Compatibility, & Deadlocks o XML storage & querying capabilities of DB2 UDB

Performance Monitoring & Tuning

- DB2 Optimizer and Data Access Paths
- Transactional vs. DSS Workload Considerations
- Snapshot Monitor, Event Monitor,
- DB2 Performance Monitoring Tools
- Explain, Visual Explain, db2batch, db2explain

Debugging Tools & Facilities

- ✓ db2diag.log, Notification Log, Trap Files, Dump Files
- ✓ INSPECT Command, db2pd, db2dart, db2support Utilities

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DB2 Utilities – Data Movement & Data Maintenance

- Export, Import, Load, db2move, db2look
- RUNSTATS, REORG, REORGCHK, REBIND
- Various Tablespace States and How to resolve Them
- Utility Throttling

DB2 Backup & Recovery

- ❖ Recovery Strategies
- ❖ Types of Logs and Logging
- ❖ Various Types of BACKUP
- ❖ Various Types of RESTORE
- ❖ User-exits and Log Shipping
- ❖ High Availability through HADR

Multi-Partitioned Databases (DB2 ESE)

- ✚ Parallel Database Architectures
- ✚ Inter-partition & Intra-partition Parallelism
- ✚ DB2 UDB Partitioned Environment Installation Examples
- ✚ Database Partition Groups, Partitioning Maps, Partitioning Keys
- ✚ How Joins Work on Multi-Partitioned Databases
- ✚ Backup & Recovery Considerations for Multi-Partitioned Database
- ✚ Query Patroller

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SQL Replication Overview

- Infrastructure Requirements
- Configuration of Servers for SQL Replication
- Operating CAPTURE & APPLY Programs

DB2 Certifications

- Roadmap on various Certifications offered by IBM
- Information on Study Guides & Taking the Test o Tutorials

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