

Wizards Training Inc.

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,
- **DB2 Storage Management In-depth**
 - Database Directory Structure
 - Automatic Storage, System Temporary Storage
 - 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
 - Global Temporary Tables
 - Understanding Unit of Work/ Transaction
 - Isolation Levels, Lock Compatibility, & Deadlocks
 - XML storage & querying capabilities of DB2 UDB 9

Training Location: 1039 Sterling Road, Ste. 103, Herndon-VA-20170. USA.

Ph: 703-867-7699 Fax: 703-956-6769 training @wizardstraining.net

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- **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
- **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
- **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
 - Tutorials

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