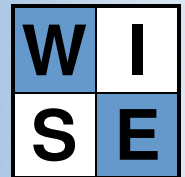


- COURSE CODE:** DWUXSQ
- COURSE TITLE:** SQL Server → DB2 for LUW Transition Fundamentals
- AUDIENCE:** Aspiring DB2 DBAs, system administrators, developers and operations personnel.
- PREREQUISITES:** At least 1-year of technical experience with any DBMS.
- DURATION:** 4 days (incorporating hands-on workshop)
- SUMMARY:** After establishing a terminology match between SQL Server and DB2, for example:

SQL SERVER	DB2
File group	Tablespace
Instance	Instance
Enterprise Manager	Control Center
Automatic recovery	Crash recovery

the presentation then elaborates on the scope and limits of DB2 in terms of its architecture, objects, SQL, application structures, utilities, commands, security, locking and concurrency, etc.

- OBJECTIVES:** Upon completion of this course, the participant should be able to think clearly in terms of DB2's features, objects and capabilities.



### 1. DB2 PRODUCT SUMMARY

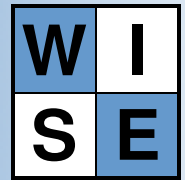
- Enterprise Server Edition (ESE)
- Data Warehouse Edition (DWE)
- Workgroup Server Unlimited Edition (WSUE)
- Workgroup Server Edition (WSE)
- Personal Edition (PE)
- Developer's Edition
- Personal Developer's Edition (PDE)
- DB2 Express
- DB2 Everyplace
- DB2 Connect
- Parallelism
- Single Partition on a Single CP
- Single Partition with Multiple CPs
- Massively Parallel Processing System
- Cluster of SMPs
- Processor Considerations

### 2. ARCHITECTURE DIFFERENCES & SIMILARITIES

- Instances
- Memory allocation and management
- Process models
- External (disk) allocation
- Transaction logs
- Optimizer
- Parallelism
- Diagnostic and message logs
- Security server
- High availability

### 3. DB2 ADMINISTRATIVE INTERFACES & TOOLS

- DB2 vs. SQL Server summary
- GUI interfaces
- Wizards
- Advisors
- Command Line Processor (CLP)
- Utilities
- Performance monitors



#### 4. DB2 SQL

- DB2 vs. SQL Server Summary
- SQL standard compliance
- Data types
- Date and time
- String considerations
- Case sensitivity
- SQL syntax and semantics (e.g., cursors)
- Built-in functions
- Catalog queries
- SQL/PL vs. Transact-SQL

#### 5. DB2 APPLICATION CONSIDERATIONS

- Programming languages
- Transaction concepts
- Locking and concurrency
- Program preparation

#### 6. DB2 DATABASE OBJECTS

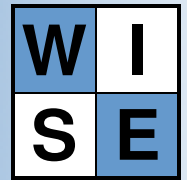
- Temporary tables
- Stored procedures
- User defined functions
- Triggers

#### 7. DB2 SYSTEM ADMINISTRATION

- DB2 registry variables
- DB2 DB manager configuration parameters
- DB2 DB configuration parameters
- Instance management
- DB management
- Tablespace management
- Partition management
- Index management
- Buffer pool (cache) management

#### 8. DB2 UTILITIES & COMMANDS

- Data management (e.g., REORG)
- Backup/recovery
- Performance statistics
- Frequently used commands
- LOADs



## 9. DB2 TUNING CONSIDERATIONS

- Autonomic features
- Explain facilities
- Advisors
- Access paths
- Multi-Dimensional Clustering (MDC)

## 10. IBM MIGRATION TOOL KIT

- Overview
- Set-up
- Use