

- COURSE CODE:** DWUUP9
- COURSE TITLE:** DB2 V9 for LUW Transition: DBAs
- AUDIENCE:** DBAs, production DBAs, system administrators and capacity planners.
- LEVEL:** Intermediate to advanced
- PREREQUISITES:** Six or more months of DB2 technical knowledge/experience.
- DURATION:** 2 days
- SUMMARY:** Designed mainly for DBAs, this course comprehensively covers DB2 V9 new features, including:
- New automated database administration
 - Large databases via partitioning
 - Enhanced security
 - System performance
 - Scalability options
 - Manageability options
 - XML considerations
 - DB2 commands/utilities enhancements
 - DB2 Explain and tuning tools
 - SQL and application interface enhancements
- OBJECTIVES:** Upon completion of this course, the participant should be able to think clearly about and apply the new DB2 V9 LUW features and enhancements.

1. THE DB2 FAMILY

- DB2 platform options

2. DB2 PRODUCT, PACKAGING & TERMINOLOGY CHANGES

- Product
- Packaging
- DB2 Universal Database for Linux, UNIX, Windows
- DB2 Information Integrator
- DB2 V9.1 component replacements
- Db2 product-line
- Distribution key terminology

3. APPLICATION-RELATED ENHANCEMENTS

- BINARY, VARBINARY and DECFLOAT data type support
- Client support for DB2 for z/OS databases
- Command line processor SQL statements limits
- DB2 .NET Data Provider and support for the .NET Framework 2.0
- Developer Workbench vs. Development Center
- External table function support across database partitions
- Java routine class loader enhancements
- JDBC and SQLJ enhancements
- New samples and Sample DB

4. NATIVE XML DATA STORE

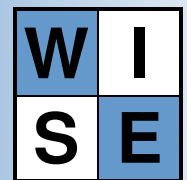
- Native XML data store support
- XML schema, DTD and external entity management
- XQuery language
- XQuery builder
- Application development support – native XML data store
- Performance enhancements – native XML data store
- XML administration tools support
- Command line processor (CLP) and command line tool support

5. BACKUP, LOGGING & RECOVERY

- Backup, logging and recovery
- Continue a recover operation that ended during the rollforward phase
- Redirected restore operation using an automatically generated script
- Rebuild database function provides new restore options

6. FEDERATION

- User mapping retrieval from an external repository is supported
- Statement level isolation for nicknames



7. SCALABILITY

- Increased maximum number of indexes and index keys
- Larger system and user temporary tables
- Table size limits increased

8. MANAGEABILITY

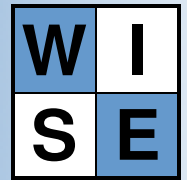
- Self-tuning memory allocation
- ALTER TABLE statement
- Automatic storage
- Automatic table and index reorganisation
- Buffer pool identifiers display
- Copy schema support
- DB2 administration commands via SQL
- EXEC SQL utility support for loading data into DB2 for z/OS tables
- Fast communications manager (FCM) enhancements
- Identifier length limits increased
- Load support for partitioned tables
- New SQL Monitor Area (QLMA) for monitoring information flow in partitioned database environments

9. SECURITY

- Data access security
- RESTRICT option added to CREATE DATABASE
- Security administrator (SECADM) authority added to centralise security privileges
- SETSESSIONUSER privilege added
- TRANSFER OWNERSHIP SQL statement added

10. PERFORMANCE ENHANCEMENTS

- Enhanced query performance using statistical views
- Faster data loading using SOURCEUSEREXIT
- Load from cursor with remote fetch
- Materialized query table (MQT) enhancements
- Online processing of SET INTEGRITY
- Optimizer registry variables and keywords added
- Row compression support
- 64KB page size support for POWER5+ processors (AIX)



11. INSTALLATION, MIGRATION & FIX PACK ENHANCEMENTS

- Installation
- Migration
- Fix pack enhancements
- Coexistence of multiple DB2 versions
- Installation of DB2 products without using an Administrator user ID now supported (Windows)
- Manual installation enhancements
- Migration resources for DB2 database systems
- New DB2 product uninstall features
- Changes from V8.2-to-V9.1 functionality
- Database setup changes
- Administration changes
- Application development changes
- Deprecated functionality summary
- Check pending table state replaced
- COLNAMES column in SYSCAT. INDEXES deprecated
- DB2LINUXAIO registry variable deprecated
- db2secv82 command deprecated
- Database logging
- ADD PARTITIONING KEY deprecated
- DROP PARTITIONING KEY deprecated
- Type 1 indexes deprecated
- DB2 JDBC Type 2 driver deprecated
- -w option of db2icrt, db2ilist and db2iupdt ignored
- Discontinued functionalities