

**Chapter 1: DB2 and the Relational Model**

You will learn:

- DB2 development.
- Why relational?
- Integrity.
- Data manipulation.
- Implementation.
- The 12 rules.

**Chapter 2: DB2 UDB Components and Concepts**

You will learn:

- Control Center.
- Replication Center.
- Satellite Administration Center.
- Command Center.
- Task Center.
- Health Center.
- Journal Center.
- Development Center.
- License Center.
- Information Center.
- Memory areas.
- Run-time components.
- System commands.
- Contacts and contract groups.
- Data Link Managers.

**Chapter 3: DB2 UDB Installation**

You will learn:

- Installation and customization.
- Creating an instance.
- Creating a database.
- Customizing an instance.
- Configuration parameters.
- System commands.
- CLP commands.

**Chapter 4: Creating Objects**

You will learn:

- Database characteristics.
- Tablespaces.
- CLP: Command Line Processor.
- Partitioning.
- Partitioning key – choosing and implementing.
- Nodegroups creation.
- Join row relocation strategies.
- Data placement.
- Files created to support and manage databases.
- Calculate space requirements for storing data.
- Table creation and associated objects.
- Creating tables, views, indexes, and aliases.
- Create an active database.
- Referential and check constraints.
- System commands.

**Chapter 5: Moving and Loading Data**

You will learn:

- File formats for export/import/load.
- Export command.
- Export examples.
- Recreating an exported table.
- Import or load?
- Import.
- Import examples.
- How to load.
- Load command.
- LOAD QUERY command.
- QUIESCE TABLESPACES FOR TABLE command.

**Chapter 6: Backup, Logging, Recovery**

You will learn:

- Retain logging.
- Log control file.
- Backup process.
- REORGCHK.
- RUNSTATS.
- REBIND.
- BACKUP.
- Recovery.
- RESTORE.
- ROLLFORWARD.
- QUIESCE.
- Log records.
- Commands.

**Chapter 7: SQL for Administration (1)**

You will learn:

- SELECT.
- Selecting all columns.
- Selecting some columns.
- Eliminating duplicates: DISTINCT.
- WHERE.
- LIKE.
- BETWEEN.
- IN.
- Multiple conditions.
- Derived columns.
- NULL values.
- SELECT ...CASE.

**Chapter 8: SQL for Administrators (2)**

You will learn:

- INSERT.
- DELETE.
- UPDATE.
- Labeled durations.
- JOIN.
- Scalar functions.
- Column functions.
- Group by.
- Special registers.
- Further scalar functions.

**Chapter 9: Scaling the Database**

You will learn:

- CREATE DATABASE PARTITION GROUP.
- ALTER DATABASE PARTITION GROUP.
- ADD DBPARTITIONNUM.
- DROP DBPARTITION VERIFY.
- LIST DATABASE PARTITIONS GROUPS.
- LIST DBPARTITIONNUMS.
- REDISTRIBUTE DATABASE PARTITION GROUP.
- Commands.

**Chapter 10: Application Considerations**

You will learn:

- Db2bfd.
- BIND.
- GET CLI CONFIGURATION.
- LIST PACKAGES/TABLES.
- PRECOMPILE.
- REBIND.
- Db2rbind.
- Sqli.

**Chapter 11: Connectivity Considerations**

You will learn:

- CLI/ODBC.
- Transaction processing with CLI.
- Optimizing ODBC access.
- db2cfexp.
- db2cfimp.
- db2ckmig.
- db2cidmg.
- Source and output files for Java.
- Java class libraries.
- CLP commands.

**Chapter 12: Security**

You will learn:

- Controlling access to DB2 objects.
- Explicit or implicit grants.
- DB2 UDB EEE security.
- GRANT and REVOKE.
- Authority and privilege information.
- Determining the access permissions held by a DB2 user.

**Chapter 13: Concurrency**

You will learn:

- Locking to ensure data integrity.
- Bind isolation.
- CHANGE ISOLATION LEVEL command.
- Committing updates.
- Deadlocks.
- Design considerations.
- Lock objects.
- With hold for cursor.
- LOCK TABLE.
- SAVEPOINT.

**Chapter 14: Performance Measurement and Tuning**

You will learn:

- AIX troubleshooting commands.
- UNIX troubleshooting commands.
- Performance tuning tools.
- Multi-partitioned environment commands.
- Optimization clauses.
- Row blocking.
- Snapshot Monitor.
- Event Monitor.
- db2eva.
- db2evmon.
- db2batch utility.
- Index Advisor.
- db2look.
- db2mtrk.
- db2trc.
- CLP commands.
- SQL statements.

