

**Chapter 1: Relational Database**

You will learn:

- DB2 objects.
- The role and utilization of indexes, keys, constraints, and objects.
- Storage structures - table space and index space.
- Purpose of sequences.
- Routines - functions and stored procedures.
- Aliases.
- MQT: Materialized Query Tables.
- Data types in DB2.
- Derived columns:
- Aggregation.

**Chapter 2: DB2 Product**

You will learn:

- DB2 products.
- Enhancements to DB2.
- Optimizer for advanced queries.
- J2EE application platform portability.
- Universal driver for SQLJ and JDBC.
- zSeries 64-bit virtual storage and storage areas.

**Chapter 3: DB2 Product**

You will learn:

- Coded character sets and CCSIDs.
- Java database connectivity.
- Components of the DB2 environment.
- BSDS: Bootstrap Data Set.
- Role and importance of buffer pools.
- Resource Limit Facility Database.
- Address spaces - how used.
- Active and archive logs.
- TEMP database.
- Locking, commit, and rollback.
- Unit of work / unit of recovery.
- Packages and application plans.
- Shared disk architecture.

**Chapter 4: Structured Query Language**

You will learn:

- SQL: Structured Query Language: Static SQL, Dynamic SQL, Deferred Embedded SQL.
- CLI: Command Level Interface.
- JDBC and SQLJ.
- Table expressions.
- Recursive SQL.
- Identity columns.
- Sequence objects.
- SQL to support sequence objects.

**Chapter 5: Execution Environments**

You will learn:

- DB2 compression.
- Page size and rows per page.
- Index structure and management.
- Indexable predicates - matching.
- Sort avoidance.
- Index-only access.
- Indexing strategy - general.
- Index design.
- Clustering versus a non-clustering index.
- Clustering Index - choosing.

**Chapter 6: ISPF: Introduction**

You will learn:

- Common tasks for system administrators.
- ISPF panels.
- View, Browse, Edit, Edit macros, and models.
- Utilities - purpose and function.
- Default function key arrangement.
- Primary Option Menu Panel.
- Browse versus View functions.
- Browse primary commands.
- Line commands.
- Edit Primary commands.