

Chapter 1: SQL: Introduction

You will learn:

- SQL - Structured Query Language.
- SQL statements.
- SQL commands.
- Resultsets.
- SQL language elements.

Chapter 2: SPUFI

You will learn:

- SPUFI: purpose and utilization.
- The SPUFI panel.
- How to enter SQL with SPUFI.
- Input and output dataset names.
- EDIT SQL in SPUFI.
- SPUFI defaults.
- Content of the messages from SPUFI.

Chapter 3: SQL Queries

You will learn:

- Querying all rows and columns.
- Selecting columns and rows.
- Ordering of columns.
- Numeric fields and derived columns.
- Conditional selection.
- Compound conditions and logical operators.
- AND and OR.
- ORDER BY.
- Sort keys.
- AS clause - referencing derived columns.
- IN and BETWEEN operators.
- Alias.
- LIKE
- SELECT DISTINCT.

Chapter 4: Scalar Functions and Arithmetic

You will learn:

- Function syntax.
- Aggregate functions.
- AVG function.
- COUNT function.
- MAX and MIN functions.
- Scalar functions.
- ABS function.
- CHAR function.
- COALESCE function.
- DATE function and related DATE functions.
- LOWER and UPPER functions.
- LTRIM and RTRIM functions.
- REPEAT function.
- SUBSTR function.

Chapter 5: Grouping Values

You will learn:

- GROUP BY clause.
- GROUP BY clause using one column.
- GROUP BY clause using more than one column.
- GROUP BY clause using an expression.
- HAVING clause.
- HAVING with a GROUP BY.

Chapter 6: Join Operations

You will learn:

- Joins and keys.
- Joining data from more than one DB2 table.
- Join types.
- Outer joins.
- Inner join.
- Joining a table to itself by using an inner join.
- Full outer join.
- Left and right outer joins.

Chapter 7: Unions and Subquery

You will learn:

- UNION.
- Using UNION to eliminate duplicates.
- UNION ALL to keep duplicates.
- Subqueries.
- Correlated and uncorrelated subqueries.
- Subqueries and predicates.
- Result tables from a subquery.
- Subquery predicate - basic.

Chapter 8: Updating DB2 Tables

You will learn:

- INSERT INTO statement.
- Column values.
- Inserting a single row.
- Inserting rows from another table.
- UPDATE statement.
- Updating current values.
- DELETE statement.
- Error checking.

Chapter 9: COBOL and Java Data Types

You will learn:

- Java and COBOL data types.
- Object-oriented COBOL for Java interoperability.