

Chapter 1: Introduction
You will learn: <ul style="list-style-type: none">▪ SQL - Structured Query Language.▪ SQL statements.▪ Result sets.
Chapter 2: SPUFI
You will learn: <ul style="list-style-type: none">▪ SPUFI: purpose and utilization.▪ The SPUFI panel.▪ How to enter SQL with SPUFI.▪ INPUT and OUTPUT data set names.▪ EDIT SQL in SPUFI.▪ SPUFI defaults.▪ Content of the messages from SPUFI.
Chapter 3: SQL Queries
You will learn: <ul style="list-style-type: none">▪ Querying all rows and columns.▪ Selecting columns and rows.▪ Ordering of columns.▪ Numeric fields and derived columns.▪ Conditional selection.▪ Compound conditions / logical operators.▪ AND and OR.▪ ORDER BY.▪ Sort keys.▪ Referencing derived columns.▪ IN and BETWEEN.▪ Alias.▪ LIKE.▪ SELECT DISTINCT.

Chapter 4: Scalar Functions and Arithmetic

You will learn:

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

Chapter 5: Grouping Values

You will learn:

- GROUP BY.
- 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 outer 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.
- Column values.
- Inserting a single row.
- Inserting rows from another table.
- Update statement.
- Updating current values.
- UPDATE SET clause.
- Update with a SELECT.
- DELETE statement.
- DELETE all rows.
- Error checking.

Chapter 9: COBOL and Java Data Types

You will learn:

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