

Chapter 1: Introduction

You will learn:

- UDB tools.
- DB2 programming interfaces.
- Host language and embedded SQL.
- Embedded SQL.
- DB2 Call Level Interface.
- JDBC: Java Database Connectivity.
- JDBC drivers.
- Embedded SQL for Java (SQLj).
- XML Extender.
- DB2 programming features.
- DB2 stored procedures.
- DB2 user-defined functions and methods.

Chapter 2: Coding a DB2 Application in Java

You will learn:

- Coding a DB2 application in Java.
- Connection Resource Management in Java.
- Java class libraries.
- Java packages.
- Supported SQL data types in Java.
- Coding JDBC applications and applets.
- SQLj programming.
- DB2 support for SQLj.

Chapter 3: JDBC API

You will learn:

- JDBC API.
- JDBC 2.0 API includes.
- JDBC driver types.
- JDBC URL syntax.
- SQL statements – sending.
- Transactions.
- How to free DBMS resources.

Chapter 4: JDBC Programming

You will learn:

- JDBC programming.
- DriverManager.
- Executing statements.
- Statement completion.
- SQL Escape syntax in statements.
- Sending Batch updates.
- ResultSet.
- Retrieving multiple rows and updating a single row.
- Rows and columns.
- Cursors.
- Determining the number of rows in a result set.
- Retrieving column values.
- getXXX method.

Chapter 5: JDBC Programming: Advanced

You will learn:

- Types of result sets.
- Concurrency types.
- Performance hints.
- Result sets.
- Prepare statement.
- updateXXX methods.
- Rows: deleting/inserting.
- Queries producing updatable result sets.
- NULL result values.

Chapter 6: Prepared and Stored Procedures

You will learn:

- Prepare and stored procedures.
- Prepared Statement.
- Dynamic SQL.
- Passing IN parameters.
- setObject.
- Sending very large IN parameters.
- Callable Statement.
- Batch updates.
- OUT and INOUT parameters.

Chapter 7: DB2 Application Techniques

You will learn:

- DB2 application techniques.
- Remote Unit of Work.
- Multisite update.
- SQL statements in multisite update applications.
- Multisite error codes.
- Concurrent transactions.
- Generated columns.
- Identity columns.
- Declared temporary tables and application performance.
- Transaction management with savepoints.
- SQL statements for creating and controlling savepoints.

Chapter 8: Visual Explain

You will learn:

- DB2 Visual Explain.
- Explain snapshots.
- Zoom slider.
- Statistics and runstats.
- Configuration parameters and bind options.
- Access plan.
- Running a query with no indexes and no statistics.
- Index creation.