

Coding Efficient DB2 SQL in a Java Program

CDT631

This course introduces the student to how to code efficient SQL database statements in a Java program. In order to finish the course in a day, various Java SQL code examples are shown and discussed.

Audience

- This course is targeted at technical programmers, analysts, team leaders and project managers who need to understand how to efficiently code SQL statements in a Java program.

Prerequisites

- The student should have some Java programming experience with SQL from any relational database.

Course Length

- One day

Learning Objectives

- DB2 Cursor Types
- Database Drivers
- Database Objects
- Statement Processing
- When Column Lists And Where Clauses Change
- Prepared Statement Processing:
- When Column Lists And Where Clauses Are Static
- And Only Data Variable Values Change
- SQLJ Processing:
- When Column Lists And Where Clauses Are Static And Only Data Variable Values Change
- Programming With WebSphere Data Access Beans
- Programming With WebSphere Data Objects

Course Outline

HF5

DB2 Cursor Types

- SCROLL or NOScroll
- DYNAMIC or STATIC
- ASENSITIVE, INSENSITIVE, or SENSITIVE

Database Drivers

- Types of ODBC Drivers
- ODBC Driver Parameters
- Types of JDBC Drivers
- Driver
- Driver Manager
- Loading Your Database Driver Without JNDI
- Loading Your Database Drive With JNDI

Database Objects

- Connection
- Statement
- Prepared Statement
- Result Set
- Callable Statement

Statement Processing:

When Column Lists And Where Clauses Change

- Get a Connection
- Create a Statement
- Get Meta Data
- Using executeQuery(sql)
- Using executeUpdate(sql)
- Using executeBatch()
- Process a Result Set
- Process Result Set Meta Data

Prepared Statement Processing:

When Column Lists And Where Clauses Are Static And Only Data Variable Values Change

- Get a Connection
- Create a Prepared Statement
- Get Meta Data
- Using executeQuery()
- Using executeUpdate()
- Using executeBatch()
- Process a Result Set
- Process Result Set Meta Data

SQLJ Processing:

When Column Lists And Where Clauses Are Static And Only Data Variable Values Change

- The WebSphere SQLJ Editor
- The WebSphere SQLJ Translator
- The WebSphere SQLJ Debugger
- WebSphere Built-in SQLJ DB2 Customizations

Programming With Websphere Data Access Beans

- Generating Data Access Beans
- Programming with Data Access Beans

Programming With Websphere Data Objects

- Generating WebSphere Data Objects (WDO)
- Programming with WebSphere Data Objects (WDO)