

CIW Database Specialist Series – Course 2 and CIW Web Developer Series:

Building Database Client Applications Using JDBC 2.0 (October 2002)

Building Database Client Applications Using JDBC 2.0 is a 12-hour course that teaches students how to build database client applications using JDBC 2.0. Students will learn how to apply the JDBC API to connect to relational databases; issue SQL statements and queries; and use transactions, prepared statements, stored procedures and metadata to create and manipulate database information. Students will apply the knowledge they learn in class by building a graphical client application.

Topics

Introduction to JDBC

JDBC - The Basics
Relational Databases
Structured Query Language
System Architecture

Using JDBC Drivers

JDBC Drivers
Establishing a Connection

Executing SQL Statements

The Statement Interface
Transactions Using SQL Statements

Prepared Statements and Stored Procedures

Prepared Statements
Stored Procedures

Metadata

Introduction to Metadata
DatabaseMetaData
ResultSetMetaData

SQLException

Introduction to SQLException
try and catch Blocks
SQLException Methods

Scrollable and Updatable Result Sets

Scrollable Result Sets
Updatable Result Sets

Batch Updates

Introduction to Batch Updates
Parameterized Batch Updates
BatchUpdateException

Target Audience

Application developers, programmers, enterprise developers, Web developers, and database developers.

Job Responsibilities

Design, implement, and maintain database schemas; design and develop database client applications and components; and perform database administration, security and maintenance.

Prerequisites

Students must have completed *Java Programming Fundamentals* or have an equivalent knowledge of Java programming before taking this course. It is also recommended that students complete the *Database Design Methodology* course or have a basic knowledge of the purpose and function of databases.

Duration

12 hours