ProTech Professional Technical Services, Inc.

JDBC – Java Database Connectivity

Course Summary

Description

JDBC is a Java technology for accessing SQL databases. It is a core part of J2EE, and it works with every major database product. This hands-on course covers all the details that you will need to use JDBC to access the information in your databases using Java. It also talks about real world issues in using JDBC.

All labs can be done with the **Eclipse IDE** or a simple editor, and the lab instructions include detailed directions on both environments.

Objectives

After taking this course, students will be able to:
- Understand the JDBC architecture
- Connect to different databases with JDBC
- Understand the JDBC API
- Execute SQL statements using JDBC, and retrieve results
- Call stored procedures from JDBC
- Understand and control transactions with JDBC
- Retrieve information about database structure using DatabaseMetaData
- Use Advanced JDBC features

Topics

- Relational Database and JDBC Overview
- JDBC Architecture, JDBC API Overview
- Connecting to a database
- DataBaseMetaData
- Handling Database Exceptions
- DAO – Data Access Objects, O-R Mapping, Value Objects
- Processing Database Data
- JDBC Driver Types
- DataSource
- Connection Pooling
- Other Database Access Technologies
- Advanced JDBC Features

Audience

This course is designed for android developers, manual quality analysts, and automation quality analysts.

Prerequisites

Students should have basic knowledge of Java and SQL.

Duration

One day

Course Outline *(vertical side text)*

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Course Outline

Introduction

Advanced Topics