

Module: Java Data Base Connectivity

In this course, you will learn how to write Java code that interacts with a relational database like MySQL, using the Java Data Base Connectivity or JDBC API.

Prerequisites: Java programming, SQL concepts.



OUTLINE

Introduction to JDBC

Install: Java, MySQL, NetBeans
 JDBC: architecture, packages
 JDBC drivers: types 1, 2, 3, 4
 Import JDBC Packages
 Database URL
 Create a Connection object
 Close JDBC connections
 Example

How to create statements

Statement objects
 Methods of Statement class
 PreparedStatement objects
 setXXX() methods: attach data
 Stored Procedures: IN, OUT, INOUT
 CallableStatement objects
 Methods setXXX(), getXXX()
 registerOutParameter()
 Lab: using statements

Ways to take this course: Online Instructor Led
 Online self-paced
 Video On Demand

Video conference tool: ZOOM

Duration: 14 H (2 days)

Manipulating Resultsets

Introduction
 Types of ResultSets
 Access concurrency
 Navigate in a ResultSet
 Display data from a ResultSet
 The get method for displaying
 Update data
 The update() method
 JDBC-SQL Data types
 Lab: using resultsets

Transactions, batches and streams

Transactions
 Commit and Rollback
 Use Savepoints
 SQLException class
 Batch with a Statement object
 Batch with a PreparedStatement
 JDBC batch management
 Lab: XML file in DB

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Labs

- SQL : defining data
- Create a new package
- Prepare the database
- Using Statements
- Using commit and rollback
- Using a CallableStatement
- Create and use a DAO
- Create an abstract class
- POJOs, Interfaces
- Create a Manager



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