



Enterprise Programming using JAVA Chapter-1: Foundation of Enterprise Programming

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Steps to Connect to MySQL Database Using JDBC

Step 1: Load the JDBC Driver

Class.forName("com.mysql.cj.jdbc.Driver");

Step 2: Establish a Connection

```
Connection connection = DriverManager.getConnection(
"jdbc:mysql://localhost:3306/your_database",

"your_username",

"your_password"
);
```



Steps to Connect to MySQL Database Using JDBC

Step 3: Create a Statement

Statement statement = connection.createStatement();

Step 4: Execute a Query

String query = "INSERT INTO students (id, name) VALUES (101, 'John Doe')"; int rowsAffected = statement.executeUpdate(query); System.out.println("Rows affected: " + rowsAffected);



Steps to Connect to MySQL Database Using JDBC

Step 5: Close the Connection statement.close();

connection.close();



```
// Java program to implement a simple JDBC application
import java.sql.*;
public class Geeks {
  public static void main(String[] args)
     // Database URL, username, and password
     // Replace with your database name
     String url
       = "jdbc:mysql://localhost:3306/your_database";
```



```
// Replace with your MySQL username
    String username = "your username";
    // Replace with your MySQL password
    String password = "your password";
    // Updated query syntax for modern databases
    String query
       = "INSERT INTO students (id, name) VALUES (109,
'bhatt')";
```



```
// Establish JDBC Connection
    try {
      // Load Type-4 Driver
      // MySQL Type-4 driver class
      Class.forName("com.mysql.cj.jdbc.Driver");
      // Establish connection
      Connection c = DriverManager.getConnection(
         url, username, password);
```



```
// Create a statement
    Statement st = c.createStatement();

// Execute the query
    int count = st.executeUpdate(query);
    System.out.println(
        "Number of rows affected by this query: "
        + count);
```



```
// Close the connection
       st.close();
       c.close();
       System.out.println("Connection closed.");
    catch (ClassNotFoundException e) {
       System.err.println("JDBC Driver not found: "
                   + e.getMessage());
    catch (SQLException e) {
       System.err.println("SQL Error: "
                   + e.getMessage());
    }}}
```



PPT Content Resources Reference Sample:

Book Reference

Jim Farley, William Crawford, David Flanagan. Java Enterprise in a Nutshell, O'Reilly

2. Book Reference

Rocha, R., Purificação, J. (2018). Java EE 8 Design Patterns and Best Practices: Build Enterprise-ready Scalable Applications with Architectural Design Patterns. Germany: Packt Publishing..

3. Website Reference

https://www.scribd.com/document/268349254/Java-8-Programming-Black-Book .

4. Sources

https://developers.redhat.com/topics/enterprise-java

5. Article

https://www.researchgate.net/publication/276412369_Advanced_Java_Programming













https://paruluniversity.ac.in/

