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SMARTBRIDGE EXTERNSHIP

Modern App Development Using Spring Boot

Week 3 Assignment

Q.) Implement Java Assignment for Java JDBC using Java

Using table from MQL workbench

CODE:

```
package practice;
import java.sql.*;
import java.util.Scanner;
public class Smartbridge 3 {
   public static void main(String[] args){
       try {
           Class.forName("com.mysql.cj.jdbc.Driver");
           Connection conn =
'alens");
           Statement stmt = conn.createStatement();
           System.out.println("---- Original Table ----");
           ResultSet selectResult = stmt.executeQuery("SELECT * FROM employee");
           displayResultSet(selectResult);
           String updateQuery = "UPDATE employee SET city = 'New York City' WHERE
emp_id = 3";
           int rowsUpdated = stmt.executeUpdate(updateQuery);
           System.out.println(rowsUpdated + " row(s) updated.");
           System.out.println("---- Updated Row ----");
           ResultSet updatedRowResult = stmt.executeQuery("SELECT * FROM employee
WHERE emp id = 1");
           displayResultSet(updatedRowResult);
           String deleteQuery = "DELETE FROM employee WHERE emp_id = 2";
           int rowsDeleted = stmt.executeUpdate(deleteQuery);
           System.out.println(rowsDeleted + " row(s) deleted.");
           Scanner <u>scanner</u> = new Scanner(System.in);
           System.out.println("Enter the details for the new employee:");
           System.out.print("emp_id (Integer): ");
           int empId = scanner.nextInt();
```

```
scanner.nextLine(); // Consume the newline character
           System.out.print("emp_name (String): ");
           String empName = scanner.nextLine();
           System.out.print("address (String): ");
           String address = scanner.nextLine();
           System.out.print("city (String): ");
           String city = scanner.nextLine();
           System.out.print("postal code (Integer): ");
           int postalCode = scanner.nextInt();
           scanner.nextLine(); // Consume the newline character
           System.out.print("country (String): ");
           String country = scanner.nextLine();
           String insertQuery = "INSERT INTO employee (emp_id, emp_name, address,
insertStmt.setInt(1, empId);
           insertStmt.setString(2, empName);
           insertStmt.setString(3, address);
           insertStmt.setString(4, city);
           insertStmt.setInt(5, postalCode);
           insertStmt.setString(6, country);
           int rowsInserted = insertStmt.executeUpdate();
           System.out.println(rowsInserted + " row(s) inserted.");
           System.out.println("---- Updated Table ----");
           ResultSet updatedTableResult = stmt.executeQuery("SELECT * FROM
employee");
           displayResultSet(updatedTableResult);
           conn.close();
       } catch (Exception e) {
           e.printStackTrace();
   private static void displayResultSet(ResultSet rs) throws SQLException {
       ResultSetMetaData metaData = rs.getMetaData();
       int columnCount = metaData.getColumnCount();
       for (int i = 1; i <= columnCount; i++) {</pre>
           String columnName = metaData.getColumnName(i);
           System.out.printf("%-15s", columnName);
       System.out.println();
       while (rs.next()) {
           for (int i = 1; i <= columnCount; i++) {</pre>
               String columnValue = rs.getString(i);
               if (i == 3 || i == 4) {
                   System.out.printf("%-25s", columnValue);
                   System.out.printf("%-15s", columnValue);
```

```
    System.out.println();
}
System.out.println();
}
```

OUTPUT:

