import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

public class JDBCConnection {

// Database credentials

static final String DB\_URL = "jdbc:mysql://localhost:3306/your\_database\_name";

static final String USER = "your\_username";

static final String PASS = "your\_password";

public static void main(String[] args) {

Connection connection = null;

Statement statement = null;

try {

// 1. Load the JDBC driver (Optional for modern JDBC drivers)

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

// 2. Establish a connection

connection = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected to the database successfully.");

// 3. Create a statement object

statement = connection.createStatement();

String sql = "SELECT id, name, age FROM your\_table\_name";

// 4. Execute the query

ResultSet resultSet = statement.executeQuery(sql);

// 5. Process the result set

while (resultSet.next()) {

int id = resultSet.getInt("id");

String name = resultSet.getString("name");

int age = resultSet.getInt("age");

System.out.printf("ID: %d, Name: %s, Age: %d\n", id, name, age);

}

// 6. Close the result set

resultSet.close();

} catch (SQLException e) {

e.printStackTrace();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} finally {

// 7. Close resources

try {

if (statement != null) statement.close();

if (connection != null) connection.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

}

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

public class JDBCInsertProgram {

// Database credentials

static final String DB\_URL = "jdbc:mysql://localhost:3306/your\_database\_name";

static final String USER = "your\_username";

static final String PASS = "your\_password";

public static void main(String[] args) {

Connection connection = null;

PreparedStatement preparedStatement = null;

try {

// 1. Load the JDBC driver (Optional for modern JDBC drivers)

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

// 2. Establish a connection

connection = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected to the database successfully.");

// 3. Prepare the SQL INSERT statement

String sql = "INSERT INTO your\_table\_name (id, name, age) VALUES (?, ?, ?)";

preparedStatement = connection.prepareStatement(sql);

// 4. Set the values to insert

preparedStatement.setInt(1, 1); // Setting ID

preparedStatement.setString(2, "Alice"); // Setting Name

preparedStatement.setInt(3, 30); // Setting Age

// 5. Execute the INSERT statement

int rowsInserted = preparedStatement.executeUpdate();

if (rowsInserted > 0) {

System.out.println("A new record was inserted successfully!");

}

} catch (SQLException e) {

e.printStackTrace();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} finally {

// 6. Close resources

try {

if (preparedStatement != null) preparedStatement.close();

if (connection != null) connection.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

}

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.SQLException;

public class JDBCDeleteProgram {

// Database credentials

static final String DB\_URL = "jdbc:mysql://localhost:3306/your\_database\_name";

static final String USER = "your\_username";

static final String PASS = "your\_password";

public static void main(String[] args) {

Connection connection = null;

PreparedStatement preparedStatement = null;

try {

// 1. Load the JDBC driver (Optional for modern JDBC drivers)

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

// 2. Establish a connection

connection = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected to the database successfully.");

// 3. Prepare the SQL DELETE statement

String sql = "DELETE FROM your\_table\_name WHERE id = ?";

preparedStatement = connection.prepareStatement(sql);

// 4. Set the ID of the record to delete

preparedStatement.setInt(1, 1); // Replace '1' with the actual ID you want to delete

// 5. Execute the DELETE statement

int rowsDeleted = preparedStatement.executeUpdate();

if (rowsDeleted > 0) {

System.out.println("The record was deleted successfully!");

} else {

System.out.println("No record found with the specified ID.");

}

} catch (SQLException e) {

e.printStackTrace();

} catch (ClassNotFoundException e) {

e.printStackTrace();

} finally {

// 6. Close resources

try {

if (preparedStatement != null) preparedStatement.close();

if (connection != null) connection.close();

} catch (SQLException e) {

e.printStackTrace();

}

}

}

}