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Program 1:
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;
public class StudentDatabase {
private static final String JDBC_URL = "jdbc:mysql://localhost:3306/student_database";
  private static final String USERNAME = "your_username";
  private static final String PASSWORD = "your_password";
public static void main(String[] args) {
   String createTableSQL = "CREATE TABLE students ("
        + "id INT AUTO_INCREMENT PRIMARY KEY,"
        + "name VARCHAR(100),"
        + "age INT,"
        + "grade VARCHAR(10)"
        + ")";
String insertDataSQL = "INSERT INTO students (name, age, grade) VALUES "
        + "('John Doe', 20, 'A'),"
        + "('Jane Smith', 21, 'B'),"
        + "('Mike Johnson', 22, 'C')";
try (Connection connection = DriverManager.getConnection(JDBC_URL, USERNAME, PASSWORD);
                                                                                                       D
       Statement statement = connection.createStatement()) {
statement.execute(createTableSQL);
      System.out.println("Table created successfully.");
statement.executeUpdate(insertDataSQL);
      System.out.println("Data inserted successfully.");
} catch (SQLException e) {
      e.printStackTrace();
    }
  }
```

}

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Program 2:
import java.sql.*;
public class StudentDatabase {
  static final String JDBC_URL = "jdbc:mysql://localhost:3306/student_db";
  static final String USERNAME = "username";
  static final String PASSWORD = "password";
public static void main(String[] args) {
    try (Connection connection = DriverManager.getConnection(JDBC_URL, USERNAME,
PASSWORD)) {
     createTable(connection);
insertData(connection, "John Doe", 25, "Computer Science");
updateData(connection, "John Doe", 26);
deleteData(connection, "John Doe");
    } catch (SQLException e) {
      e.printStackTrace();
    }
  }
private static void createTable(Connection connection) throws SQLException {
    String sql = "CREATE TABLE IF NOT EXISTS students (" +
           "id INT AUTO INCREMENT PRIMARY KEY," +
           "name VARCHAR(255) NOT NULL," +
           "age INT NOT NULL," +
           "major VARCHAR(255) NOT NULL)";
try (Statement statement = connection.createStatement()) {
      statement.execute(sql);
    }
  }
private static void insertData(Connection connection, String name, int age, String major) throws
SQLException {
    String sql = "INSERT INTO students (name, age, major) VALUES (?, ?, ?)";
try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {
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preparedStatement.setString(1, name);
      preparedStatement.setInt(2, age);
      preparedStatement.setString(3, major);
preparedStatement.executeUpdate();
    }
  }
private static void updateData(Connection connection, String name, int newAge) throws
SQLException {
    String sql = "UPDATE students SET age = ? WHERE name = ?";
try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {
      preparedStatement.setInt(1, newAge);
      preparedStatement.setString(2, name);
      preparedStatement.executeUpdate();
    }
  }
private static void deleteData(Connection connection, String name) throws SQLException {
    String sql = "DELETE FROM students WHERE name = ?";
try (PreparedStatement preparedStatement = connection.prepareStatement(sql)) {
      preparedStatement.setString(1, name);
  preparedStatement.executeUpdate();
    }
  }
}
```