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**REG NO:** 20BCE0490

**COURSE:** MODERN APPLICATION DEVELOPMENT

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### **ASSIGNMENT-3**

### **QUESTION:**

JDBC IMPLEMENTATION

## **CREATE:**

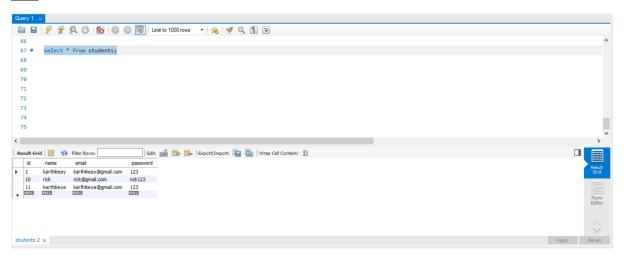
```
CODE:
package jdbc;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
public class test2 {
      public static void main(String[] args) throws InstantiationException,
IllegalAccessException, ClassNotFoundException, SQLException{
             String url = "jdbc:mysql://127.0.0.1:3306/karthikeya";
             String username = "root";
             String password = "";
             String createQuery = "INSERT INTO students (id, name,
email,password) VALUES (?, ?, ?,?)";
             int userId = 10;
             String userName = "rick";
             String userEmail = "rick@gmail.com";
             String password2 = "rick123";
             try {
                   Class.forName("com.mysql.cj.jdbc.Driver");
                   Connection connection = DriverManager.getConnection(url,
username, password);
                 PreparedStatement statement =
connection.prepareStatement(createQuery);
                 statement.setInt(1, userId);
                 statement.setString(2, userName);
                 statement.setString(3, userEmail);
                 statement.setString(4, password2);
                 int rowsInserted = statement.executeUpdate();
                 if (rowsInserted > 0) {
                     System.out.println("A new record was inserted
successfully.");
```

```
} catch (SQLException e) {
        e.printStackTrace();
}
}
```

## **OUTPUT:**

## **COMPILER:**

## SQL:



## **READ:**

## **CODE:**

```
package jdbc;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
public class test2 {
```

public static void main(String[] args) throws InstantiationException, IllegalAccessException, ClassNotFoundException, SQLException{

```
String url = "jdbc:mysql://127.0.0.1:3306/karthikeya";
             String username = "root";
             String password = "";
             String readQuery = "SELECT * FROM students";
             try {
                   Class.forName("com.mysql.cj.jdbc.Driver");
                   Connection connection = DriverManager.getConnection(url,
username, password);
                 PreparedStatement statement =
connection.prepareStatement(readQuery);
                 ResultSet resultSet = statement.executeQuery();
                 while (resultSet.next()) {
                     int userId = resultSet.getInt("id");
                     String userName = resultSet.getString("name");
                     String userEmail = resultSet.getString("email");
                     System.out.println("User ID: " + userId);
                     System.out.println("Name: " + userName);
                     System.out.println("Email: " + userEmail);
                     System.out.println("----");
             }catch (SQLException e) {
                 e.printStackTrace();
             }
      }
```

## **OUTPUT:**

## **COMPILER:**

```
Problems © Javadoc © Declaration © Console ×
<terminated > test2 [Java Application] C\Users\kagam\AppData\Local\Programs\Eclipse Adoptium\jdk-17.0.6.10-hotspot\bin\javaw.exe (04-Jun-2023, 12:57:45 pm | [pid: 3272]

User ID: 10

Name: karthikeay
Email: karthikeay@gmail.com

User ID: 11

Name: rick
Email: rick@gmail.com

User ID: 11

Name: karthikeya
Email: karthikeya
Email: karthikeya
Email: karthikeya
Email: karthikeya
Email: karthikeya
Email: com

User ID: 11

Name: karthikeya
Email: karthik
```

## SQL:



#### **UPDATE:**

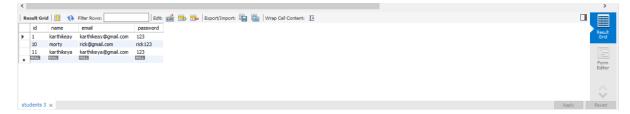
## CODE:

```
package jdbc;
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
public class test2 {
      public static void main(String[] args) throws InstantiationException,
IllegalAccessException, ClassNotFoundException, SQLException{
             String url = "jdbc:mysql://127.0.0.1:3306/karthikeya";
             String username = "root";
             String password = "";
             String updateQuery = "UPDATE students SET name = ? WHERE id = ?";
             int userIdToUpdate = 10;
             String newName = "morty";
             try {
                   Class.forName("com.mysql.cj.jdbc.Driver");
                   Connection connection = DriverManager.getConnection(url,
username, password);
                 PreparedStatement statement =
connection.prepareStatement(updateQuery);
                 statement.setString(1, newName);
                 statement.setInt(2, userIdToUpdate);
                 int rowsUpdated = statement.executeUpdate();
                 if (rowsUpdated > 0) {
                     System.out.println("Existing record was updated
successfully.");
             }catch (SQLException e) {
                 e.printStackTrace();
             }
      }
      }
```

## **OUTPUT:**

# **COMPILER:**

## SQL:



## **DELETE:**

### CODE:

package jdbc;

```
import java.sql.*;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
public class test2 {
      public static void main(String[] args) throws InstantiationException,
IllegalAccessException, ClassNotFoundException, SQLException{
             String url = "jdbc:mysql://127.0.0.1:3306/karthikeya";
             String username = "root";
             String password = "";
             String deleteQuery = "DELETE FROM students WHERE id = ?";
             int userIdToDelete = 10;
             try {
                   Class.forName("com.mysql.cj.jdbc.Driver");
                   Connection connection = DriverManager.getConnection(url,
username, password);
                 PreparedStatement statement =
connection.prepareStatement(deleteQuery);
                 statement.setInt(1, userIdToDelete);
                 int rowsDeleted = statement.executeUpdate();
                 if (rowsDeleted > 0) {
                     System.out.println("Existing record was deleted
successfully.");
```

```
}
}catch (SQLException e) {
    e.printStackTrace();
}
}
```

# **OUTPUT:**

```
© Problems © Javadoc © Declaration © Console × cterminated test2 [Java Application] C\Users\Sagan\AppCata\Local\Programs\Eclipse Adoptium\Jdk-17.0.6.10-hotspot\bin\Javaw.exe (04-Jun-2023, 1:03:18 pm − 1:03:19 pm) [pid: 17012]

Existing record was deleted successfully.
```

# **COMPILER:**

# SQL:

