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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:

```

1 package jdbc;
2 import java.sql.*;
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.PreparedStatement;
6 import java.sql.ResultSet;
7 import java.sql.SQLException;
8 public class test2 {
9
10     public static void main(String[] args) throws InstantiationException, IllegalAccessException, ClassNotFoundException, SQLException{
11
12         String url = "jdbc:mysql://127.0.0.1:3306/karthikeya";
13         String username = "root";
14         String password = "";
15
16         String createQuery = "INSERT INTO students (id, name, email,password) VALUES (?, ?, ?,?)";
17         int userId = 10;
18         String userName = "rick";
19         String userEmail = "rick@gmail.com";
20         String password2 = "rick123";
21
22
23
24         try {
25             Class.forName("com.mysql.cj.jdbc.Driver");
26             Connection connection = DriverManager.getConnection(url, username, password);

```

Problems Javadoc Declaration Console X
 <terminated> test2 [Java Application] C:\Users\kagan\AppData\Local\Programs\Eclipse Adoptium\jdk-17.0.6.10-hotspot\bin\javaw.exe (04-Jun-2023, 12:50:31 pm - 12:50:31 pm) [pid: 1688]
 A new record was inserted successfully.

SQL:

Query 1 X

```

66
67 • select * from students;
68
69
70
71
72
73
74
75

```

Result Grid

	id	name	email	password
▶	1	karthikeya	karthikeya@gmail.com	123
	10	rick	rick@gmail.com	rick123
	11	karthikeya	karthikeya@gmail.com	123
✱	10000	10000	10000	10000

students 2 X

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:

```

<terminated> test2 [Java Application] C:\Users\kagan\AppData\Local\Programs\Eclipse Adoptium\jdk-17.0.6.10-hotspot\bin\javaw.exe (04-Jun-2023, 12:57:45 pm - 12:57:45 pm) [pid: 3272]
User ID: 1
Name: karthikeya
Email: karthikeya@gmail.com
-----
User ID: 10
Name: rick
Email: rick@gmail.com
-----
User ID: 11
Name: karthikeya
Email: karthikeya@gmail.com
-----

```

SQL:

id	name	email	password
1	karthikeya	karthikeya@gmail.com	123
10	rick	rick@gmail.com	rick123
11	karthikeya	karthikeya@gmail.com	123

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:



id	name	email	password
1	karthikey	karthikey@gmail.com	123
10	morty	rick@gmail.com	rick123
11	karthikeya	karthikeya@gmail.com	123

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:



COMPILER:

SQL:

