

Practical no:- 19

Program Code:-

1)

```
import java.sql.*;
```

```
public class updateStud {  
    public static void main(String args[]) {  
        String url = "jdbc:mysql://localhost:3306/p19";  
        String user = "root";  
        String pass = "Nidhi@3108";  
        String query = "update student set roll_no = ? where roll_no = ?";  
  
        try {  
            Connection con = DriverManager.getConnection(url, user, pass);  
            PreparedStatement st = con.prepareStatement(query);  
            st.setInt(1, 102);  
            st.setInt(2, 103);  
            st.executeUpdate();  
            System.out.println("Data updated successfully!!");  
            con.close();  
        } catch (SQLException e) {  
            System.out.println(e.getMessage());  
        }  
    }  
}
```

```
}
```

```
Data updated successfully!!
```

```
mysql> select * from student;
+-----+-----+-----+
| roll_no | fname | lname |
+-----+-----+-----+
|      101 | John  | Wick  |
|      102 | Mala  | Sinha  |
|      102 | Meera  | Reddy  |
+-----+-----+-----+
3 rows in set (0.00 sec)
```

2)

```
import java.sql.*;
```

```
public class PreparedStmtEx {
```

```
    public static void main(String args[]) {
```

```
        try {
```

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

```
            Connection con =
```

```
DriverManager.getConnection("jdbc:mysql://localhost:3306/p19", "root",
"Nidhi@3108");
```

```
            PreparedStatement stmt = con.prepareStatement("insert into student
values(?,?,?)");
```

```
            stmt.setInt(1, 105);
```

```
            stmt.setString(2, "John");
```

```
            stmt.setString(3, "Doe");
```

```
            int i = stmt.executeUpdate();
```

```
            System.out.println(i + " records inserted");
```

```
            con.close();
```

```
        } catch (Exception e) {
```

```

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

```

```

mysql> select * from student;
+-----+-----+-----+
| roll_no | fname | lname |
+-----+-----+-----+
|      101 | John  | Wick  |
|      102 | Mala  | Sinha |
|      102 | Meera | Reddy |
|      105 | John  | Doe   |
+-----+-----+-----+
4 rows in set (0.00 sec)

```

Exercise:-

1)

```
import java.sql.*;
```

```
public class Retrieve {
```

```
    public static void main(String args[]) {
```

```
        String url = "jdbc:mysql://localhost:3306/p19";
```

```
        String user = "root";
```

```
        String pass = "Nidhi@3108";
```

```
        String query = "select * from student";
```

```
        try {
```

```
            Connection con = DriverManager.getConnection(url, user, pass);
```

```
            Statement st = con.createStatement();
```

```

        ResultSet rs = st.executeQuery(query);

        System.out.println("roll no\tfirst name\tlast name");

        while (rs.next()) {

            System.out.println(rs.getInt(1) + "\t" + rs.getString(2) + "\t" +
rs.getString(3));

        }

        con.close();

    } catch (SQLException e) {

        System.out.println(e.getMessage());

    }

}

}

```

roll no	first name	last name
101	John	Wick
102	Aman	Singh
103	Meera	Reddy

2)

```

import java.sql.*;

public class updateRecord {

    public static void main(String args[]) {

        String url = "jdbc:mysql://localhost:3306/p19";

        String user = "root";
    }
}

```

```

String pass = "Nidhi@3108";

String query = "update student set fname = ?, lname = ? where roll_no = ?";

try {

    Connection con = DriverManager.getConnection(url, user, pass);

    PreparedStatement st = con.prepareStatement(query);

    st.setString(1, "Mala");

    st.setString(2, "Sinha");

    st.setInt(3, 102);

    st.executeUpdate();

    System.out.println("Record Updated Successfully!!");

    con.close();

} catch (SQLException e) {

    System.out.println(e.getMessage());

}

}
}

```

Record Updated Successfully!!

```

mysql> select * from student;
+-----+-----+-----+
| roll_no | fname | lname |
+-----+-----+-----+
|      101 | John  | Wick  |
|      102 | Mala  | Sinha |
|      103 | Meera | Reddy |
+-----+-----+-----+
3 rows in set (0.00 sec)

```