

### **PRACTICAL-3**

**Aim:- Implement JDBC by connecting with database and execute Prepared Statement**

**Code:**

```
import java.util.*;
import java.sql.*;
class crud {
    Scanner sc = new Scanner(System.in);
    void delete() {
        System.out.println("Delete Row");
        System.out.println("Enter uname to delete row: ");
        String uname = sc.nextLine();
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con = DriverManager.getConnection(
                "jdbc:mysql://localhost:3306/farm", "root", "mysql");
            String qry = "delete from login where uname=?";
            PreparedStatement ps = con.prepareStatement(qry);
            ps.setString(1, uname);
            int rs = ps.executeUpdate();
            if (rs >= 1) {
                System.out.println(rs+" Row deleted successfully");
            } else {
                System.out.println(rs+" Row deleted successfully");
            }
            ps.close();
            con.close();
        } catch (Exception e) {
            System.out.println(e);
        }
    }
    void update() {
        System.out.println("Update Rows");
        System.out.println("Enter uname which you want to update row: ");
        String uname = sc.nextLine();
        System.out.println("Enter fname: ");
        String fname = sc.nextLine();
        System.out.println("Enter lname: ");
        String lname = sc.nextLine();
        System.out.println("Enter dob(YYYY-MM-DD): ");
```

```
String dob = sc.nextLine();
System.out.println("Enter password: ");
String password = sc.nextLine();
try {
    Class.forName("com.mysql.cj.jdbc.Driver");
    Connection con = DriverManager.getConnection(
        "jdbc:mysql://localhost:3306/farm", "root", "mysql");
    String qry = "update login set fname=?,lname=?,dob=?,pwd=? where uname=?";
    PreparedStatement ps = con.prepareStatement(qry);
    ps.setString(1, fname);
    ps.setString(2, lname);
    ps.setString(3, dob);
    ps.setString(4, password);
    ps.setString(5, uname);
    int rs = ps.executeUpdate();
    if (rs >= 1) {
        System.out.println(rs+"Rows Updated successfully");
    } else {
        System.out.println(rs+"Rows Updated successfully");
    }
    ps.close();
    con.close();
} catch (Exception e) {
    System.out.println(e);
}
}
void insert() {
    System.out.println("Enter ");
    System.out.println("Enter fname: ");
    String fname = sc.nextLine();
    System.out.println("Enter lname: ");
    String lname = sc.nextLine();
    System.out.println("Enter uname: ");
    String uname = sc.nextLine();
    System.out.println("Enter dob(YYYY-MM-DD): ");
    String dob = sc.nextLine();
    System.out.println("Enter password: ");
    String password = sc.nextLine();
    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con = DriverManager.getConnection(
            "jdbc:mysql://localhost:3306/farm", "root", "mysql");
```

```
String qry = "insert into login values(?,?,?,?)";
PreparedStatement ps = con.prepareStatement(qry);
ps.setString(1, fname);
ps.setString(2, lname);
ps.setString(3, uname);
ps.setString(4, dob);
ps.setString(5, password);
int rs = ps.executeUpdate();
if (rs >= 1) {
    System.out.println(rs+" Rows Inserted successfully");
} else {
    System.out.println(rs+" Rows Inserted successfully");
}
ps.close();
con.close();
} catch (Exception e) {
    System.out.println(e);
}
}
void display() {
    try {
        Class.forName("com.mysql.cj.jdbc.Driver");
        Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/farm",
"root", "mysql");
        String qry = "select * from login;";
        Statement stmt = con.createStatement();
        ResultSet rs = stmt.executeQuery(qry);
        System.out.println("fname \t lname \t uname \t dob \t password");
        while (rs.next()) {
            System.out.println("'" + rs.getString(1) + "\t" + rs.getString(2) +
            "\t" + rs.getString(3) + "\t" + rs.getString(4) + "\t" + rs.getString(5));
        }
        stmt.close();
        con.close();
    } catch (Exception e) {
        System.out.println(e);
    }
}
}
public class App {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("CRUD operation by hemil on mysql Database");
    }
}
```

```
crud isrt = new crud();
int ch = 0;
while (ch <= 4) {
    System.out.println("1.Insert Data");
    System.out.println("2.Update Data");
    System.out.println("3.Delete Data");
    System.out.println("4.Display Data");
    System.out.println("5.Exit");
    System.out.println("Enter Choice :");
    ch = sc.nextInt();
    switch (ch) {
        case 1:
            isrt.insert();
            break;
        case 2:
            isrt.update();
            break;
        case 3:
            isrt.delete();
            break;
        case 4:
            isrt.display();
            break;
        default:
            System.out.println("Defafult choice error");
            break;
    }
}
sc.close();
}
```

## Output:

```
PS F:\pu_it_practical\Adv. Java\p3_ps_insrt_up
\bin\java.exe' '-XX:+ShowCodeDetailsInExcepti
CRUD operation by hemil on mysql Database
1.Insert Data
2.Update Data
3.Delete Data
4.Display Data
5.Exit
Enter Choice :
1
Insert Values:
Enter fname:
Hemil Chovatiya
Enter lname:
Chovatiya
Enter uname:
HemilChovatiya4@gmail.com
Enter dob(YYYY-MM-DD):
2001-07-20
Enter password:
HemilChovatiya
1 Rows Inserted successfully
1.Insert Data
2.Update Data
3.Delete Data
4.Display Data
5.Exit
Enter Choice :
2
Updates values in Rows
Enter uname which you want to update row:
HemilChovatiya4@gmail.com
Enter fname:
Hemil
Enter lname:
Chovatiya
Enter dob(YYYY-MM-DD):
2001-07-20
Enter password:
Hemil
1Rows Updated successfully
1.Insert Data
2.Update Data
3.Delete Data
4.Display Data
5.Exit
Enter Choice :
3
Delete Row
Enter uname to delete row:
HemilChovatiya4@gmail.com
1 Row deleted successfully
1.Insert Data
```

```
HemilChovatiya4@gmail.com
Enter dob(YYYY-MM-DD):
2001-07-20
Enter password:
HemilChovatiya
1 Rows Inserted successfully
1.Insert Data
2.Update Data
3.Delete Data
4.Display Data
5.Exit
Enter Choice :
2
Updates values in Rows
Enter uname which you want to update row:
HemilChovatiya4@gmail.com
Enter fname:
Hemil
Enter lname:
Chovatiya
Enter dob(YYYY-MM-DD):
2001-07-20
Enter password:
Hemil
1Rows Updated successfully
1.Insert Data
2.Update Data
3.Delete Data
4.Display Data
5.Exit
Enter Choice :
3
Delete Row
Enter uname to delete row:
HemilChovatiya4@gmail.com
1 Row deleted successfully
1.Insert Data
```

```

Enter Choice :
3
Delete Row
Enter uname to delete row:
HemilChovatiya4@gmail.com
1 Row deleted successfully
1.Insert Data
2.Update Data
3.Delete Data
4.Display Data
5.Exit
Enter Choice :
4
fname    lname    uname    dob    password
2121     1221     212      2001-01-01    123
212      21212    2212121  2001-01-21    12
Bhaumik  Patel    Bhaumik@200    2002-04-08    Bhaumik@022
dharmik  chovatiya    dc@gmail.com    2001-11-01    vdvvd
fenil    gondliya    fenil@gmail.com    2001-06-11    fg
hemil    chovatiya    hemil@20gmail    2001-05-04    hemil
JAY      KHANPARA    JAYKHANPARA4@GMAIL.COM    2003-01-04    Jk@2000
kemil    thummar    kenil@gmail.com    2001-07-07    kEMIL
Krish    gajera     kg@gmail.com    2002-10-21    kg
krit     Kakadiya    kk@gmail.com    2005-04-04    kkad@20
romit    ghevariya    RG@gmail.com    2002-01-01    Rg@2332
TIRTH    KANERIYA    TIRTH@2100    2002-07-07    tirth@02
Utsav    Bhanderi    utb@2903    2002-08-04    utu@240
1.Insert Data
2.Update Data
3.Delete Data
4.Display Data
5.Exit
Enter Choice :
5
Defafault choice error
PS F:\pu it pratical\Adv. Java\p3 ps insrt update delete>

```

	fname	lname	uname	dob	pwd
	2121	1221	212	2001-01-01	123
	212	21212	2212121	2001-01-21	12
	Bhaumik	Patel	Bhaumik@200	2002-04-08	Bhaumik@022
	dharmik	chovatiya	dc@gmail.com	2001-11-01	vdvd
	fenil	gondliya	fenil@gmail.com	2001-06-11	fg
	hemil	chovatiya	hemil@20gmail	2001-05-04	hemil
	JAY	KHANPARA	JAYKHANPARA4@GMAIL.COM	2003-01-04	Jk@2000
▶	kemil	thummar	kenil@gmail.com	2001-07-07	kEMIL
	Krish	gajera	kg@gmail.com	2002-10-21	kg
	krit	Kakadiya	kk@gmail.com	2005-04-04	kkad@20
	romit	ghevariya	RG@gmail.com	2002-01-01	Rg@2332
	TIRTH	KANERIYA	TIRTH@2100	2002-07-07	tirth@02
	Utsav	Bhanderi	utb@2903	2002-08-04	utu@240
▲	NULL	NULL	NULL	NULL	NULL