ASSIGNMENT -3

Topics: JDBC Connectivity

Name: KIRTHIKA V
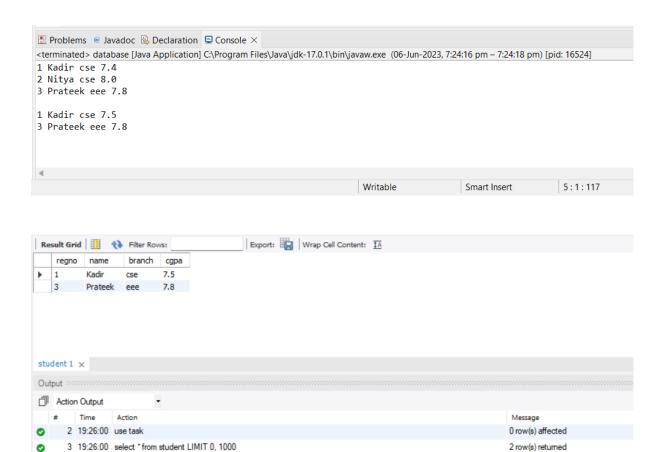
Reg no: 20BCE2628

VIT, Vellore

CODE:

```java
import java.sql.Connection;

public class database {
    public static void main(String args[]) {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection con= DriverManager.getConnection("jdbc:mysql://localhost:3306/task","root","password");
            Statement st=con.createStatement();
            st.executeUpdate("create table student (regno int(4), name char(20), branch char(10), cgpa float(2)
            st.executeUpdate("insert into student values(0001,'Kadir','cse',7.4)");
            st.executeUpdate("insert into student values(0002,'Nitya','cse',8.0)");
            st.executeUpdate("insert into student values(0003,'Prateek','eee',7.8)");


            ResultSet rs=st.executeQuery("select * from student;");
            while(rs.next()) {
                System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getFloat(4));
            }

            st.execute("update student set cgpa = 7.5 where regno = 0001");
            st.execute("delete from student where regno = 0002");

            System.out.println();

            rs=st.executeQuery("select * from student;");
            while(rs.next()) {
                System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getFloat(4));
            }



            con.close();
        }catch(Exception e) {
            System.out.println(e);
        }
    }
}
```

OUTPUT:

```
1 Kadir cse 7.4
2 Nitya cse 8.0
3 Prateek eee 7.8

1 Kadir cse 7.5
3 Prateek eee 7.8
```

Writable   Smart Insert   5 : 1 : 117

Result Grid | | | Filter Rows: | Export: | Wrap Cell Content: | A

regno	name	branch	cgpa
1	Kadir	cse	7.5
3	Prateek	eee	7.8

student 1 ×

Output

Action Output

#	Time	Action	Message
● 2	19:26:00	use task	0 row(s) affected
● 3	19:26:00	select * from student LIMIT 0, 1000	2 row(s) returned

CODE: (USING PREPARED STATEMENT)

```java
database.java ×
1  import java.sql.Connection;
6
7  public class database {
8      public static void main(String args[]) {
9          try {
10             Class.forName("com.mysql.cj.jdbc.Driver");
11             Connection con= DriverManager.getConnection("jdbc:mysql://localhost:3306/task","root","password");
12
13             PreparedStatement stmt=con.prepareStatement("insert into student values(?,?,?,?)");
14             stmt.setInt(1,0002);
15             stmt.setString(2,"Nitya");
16             stmt.setString(3, "cse" );
17             stmt.setFloat(4,(float) 8.0);
18
19             stmt.executeUpdate();
20
21             Statement st=con.createStatement();
22             /*
23              * st.
24              * executeUpdate("create table student (regno int(4), name char(20), branch char(10), cgpa float(2)
25              * ); st.executeUpdate("insert into student values(0001,'Kadir','cse',7.4)");
26              * st.executeUpdate("insert into student values(0002,'Nitya','cse',8.0)");
27              * st.executeUpdate("insert into student values(0003,'Prateek','eee',7.8)");
28              */
29
30
31             ResultSet rs=st.executeQuery("select * from student;");
32             while(rs.next()) {
33                 System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getFloat(4));
34             }
```

```java
database.java ×
24              * executeUpdate("create table student (regno int(4), name char(20), branch char(10), cgpa float(2)
25              * ); st.executeUpdate("insert into student values(0001,'Kadir','cse',7.4)");
26              * st.executeUpdate("insert into student values(0002,'Nitya','cse',8.0)");
27              * st.executeUpdate("insert into student values(0003,'Prateek','eee',7.8)");
28              */
29
30
31             ResultSet rs=st.executeQuery("select * from student;");
32             while(rs.next()) {
33                 System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "+rs.getFloat(4));
34             }
35
36             /*
37              * st.execute("update student set cgpa = 7.5 where regno = 0001");
38              * st.execute("delete from student where regno = 0002");
39              *
40              * System.out.println();
41              *
42              * rs=st.executeQuery("select * from student;"); while(rs.next()) {
43              * System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3)+" "
44              * +rs.getFloat(4)); }
45              */
46
47             con.close();
48         }catch(Exception e) {
49             System.out.println(e);
50         }
51     }
52 }
53
```

OUTPUT:

<terminated> database [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (06-Jun-2023, 7:38:35 pm – 7:38:38 pm) [pid: 12204]

```
1 Kadir cse 7.5
3 Prateek eee 7.8
2 Nitya cse 8.0
```

	Writable	Smart Insert	21 : 48 : 677

Result Grid | Filter Rows: | Export: | Wrap Cell Content: ĪA

	regno	name	branch	cgpa
▶	1	Kadir	cse	7.5
	3	Prateek	eee	7.8
	2	Nitya	cse	8

student 2 ×

Output

Action Output ▾

	#	Time	Action
✓	4	19:38:48	use task
✓	5	19:38:48	select *from student LIMIT 0, 1000