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//Problem Statement :Implement MySQL Java Connectivity (2 tier)
//to implement insert, delete, update, select operations.
import java.sql.*;
import java.util.Scanner;
public class demojdbc {
      public static void main(String args[])throws SQLException {
             String uname="root";
             String url="jdbc:mysql://localhost:3306/students";
             String password="Doit12345@";
             Scanner sc=new Scanner(System.in);
             Scanner sc1=new Scanner(System.in);
             int choice;
             try {
                   Class.forName("java.sql.DriverManager");
             }
             catch(ClassNotFoundException e) {
                   e.printStackTrace();
             }
             try {
                   do
                   System.out.println("Menu");
                   System.out.println("1.Insert into table");
                   System.out.println("2.Update student city using roll no");
                   System.out.println("3.Delete student using roll no");
                   System.out.println("4.Display all the students");
                   System.out.println("5.Exit");
                   Connection con=DriverManager.getConnection(url,uname,password);
                   String name, phNo, scity, c1;
                   int age;
                   int r1, r2;
                   String query="select * from thirdyear;";
                   PreparedStatement insert=con.prepareStatement("insert into
thirdyear(sName,phone,city,age) values(?,?,?,?);");
                   PreparedStatement update=con.prepareStatement("update thirdyear
set city = ? where rollNo = ?;");
                   PreparedStatement delrecord=con.prepareStatement("delete from
thirdyear where rollNo = ?;");
                   Statement stmt=con.createStatement();
                 System.out.println("Enter your choice:");
                   choice=sc.nextInt();
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switch(choice) {
                    case 1:System.out.println("Enter student name:");
                           name=sc.next();
                           System.out.println("Enter student phone number:");
                           phNo=sc1.next();
                           System.out.println("Enter student city:");
                           scity=sc.next();
                           System.out.println("Enter student age:");
                           age=sc1.nextInt();
                           insert.setString(1,name);
                           insert.setString(2,phNo);
                           insert.setString(3, scity);
                           insert.setInt(4, age);
                           try {
                             insert.execute();
                             System.out.println("Student data inserted
sucessfully");
                           catch(Exception e) {
                             e.printStackTrace();
                           }
                              break;
                    case 2:System.out.println("Enter the student's roll no to update
her city:");
                            r1=sc.nextInt();
                            System.out.println("Enter new city to insert in
database:");
                            c1=sc.next();
                            update.setString(1, c1);
                            update.setInt(2, r1);
                            try {
                                 update.execute();
                                 System.out.println("Student record updated
sucessfully");
                            catch(Exception e) {
                                 e.printStackTrace();
                            }
                           break;
                    case 3:System.out.println("Enter the student's roll no to delete
her record:");
                           r2=sc.nextInt();
                           delrecord.setInt(1, r2);
                           try {
                             delrecord.execute();
                             System.out.println("Student data deleted sucessfully");
                           catch(Exception e) {
                             e.printStackTrace();
                           break;
```

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case 4:ResultSet result=stmt.executeQuery(query);
                             while(result.next()) {
                                System.out.println("Name:"+result.getString(1));
                                System.out.println("Roll No:"+result.getInt(2));
                                System.out.println("Phone No:"+result.getString(3));
                                System.out.println("City:"+result.getString(4));
                                System.out.println("Age:"+result.getInt(5));
                                System.out.println();
                             }
                             break;
                     case 5:System.out.println("Exited");
                                break;
                     }while(choice!=5);
              }
              catch(Exception e) {
                     e.printStackTrace();
              }
       }
MySQL Command Line Client
mysql> create database students;
Query OK, 1 row affected (0.06 sec)
mysql> use students;
Database changed
mysql> show tables;
Empty set (0.08 sec)
mysql> create table thirdyear( sName varchar(40) not null, rollNo int primary key auto increment,
phone varchar(12), city varchar(30) not null, age int);
Query OK, 0 rows affected (0.07 sec)
mysql> insert into thirdyear( sname,rollNo,phone,city,age) values
("Sneha",1,"8965789754","Pune",20),("Ahana",2,"7687987865","Kolkata",20),("Prajakta",3,"873456453
4","Pune",20),("Siddhi",4,"9543567896","Bengaluru",20);
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Query OK, 4 rows affected (0.06 sec)
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Records: 4 Duplicates: 0 Warnings: 0
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mysql> select * from thirdyear;
+----+
| sName | rollNo | phone | city | age |
+----+
| Sneha | 1 | 8965789754 | Pune | 20 |
| Ahana | 2 | 7687987865 | Kolkata | 20 |
| Prajakta | 3 | 8734564534 | Pune | 20 |
+----+
4 rows in set (0.00 sec)
mysql> delete from thirdyear where rollNo=3;
Query OK, 0 rows affected (0.00 sec)
mysql> select * from thirdyear;
+----+
| sName | rollNo | phone | city | age |
+----+
| Sneha | 1 | 8965789754 | Pune | 20 |
| Ahana | 2 | 7687987865 | Kolkata | 20 |
4 rows in set (0.00 sec)
```

Console

Menu

- 1.Insert into table
- 2.Update student city using roll no
- 3.Delete student using roll no
- 4.Display all the students

```
5.Exit
Enter your choice:
Name:Sneha
Roll No:1
Phone No:8965789754
City:Pune
Age:20
Name:Ahana
Roll No:2
Phone No:7687987865
City:Kolkata
Age:20
Name:Siddhi
Roll No:4
Phone No:9543567896
City:Bengaluru
Age:20
Menu
1.Insert into table
2.Update student city using roll no
3.Delete student using roll no
4.Display all the students
5.Exit
Enter your choice:
Enter student name:
Prajakta
Enter student phone number:
7378858379
Enter student city:
Pune
Enter student age:
Student data inserted sucessfully
Menu
1.Insert into table
2.Update student city using roll no
3.Delete student using roll no
4.Display all the students
5.Exit
Enter your choice:
Name:Sneha
Roll No:1
Phone No:8965789754
City:Pune
Age:20
Name:Ahana
Roll No:2
```

Phone No:7687987865

City:Kolkata Age:20 Name:Siddhi Roll No:4 Phone No:9543567896 City:Bengaluru Age:20 Name:Prajakta Roll No:5 Phone No:7378858379 City:Pune Age:20 Menu 1. Insert into table 2.Update student city using roll no 3.Delete student using roll no 4.Display all the students 5.Exit Enter your choice: Enter the student's roll no to update her city: Enter new city to insert in database: Mumbai Student record updated sucessfully Menu 1.Insert into table 2.Update student city using roll no 3.Delete student using roll no 4.Display all the students 5.Exit Enter your choice: Name:Sneha Roll No:1 Phone No:8965789754 City:Pune Age:20 Name:Ahana Roll No:2 Phone No:7687987865 City:Kolkata Age:20 Name:Siddhi

Name:Siddhi Roll No:4

Phone No:9543567896

City:Mumbai Age:20 Name:Prajakta Roll No:5

Phone No:7378858379

City:Pune Age:20

Menu

1.Insert into table

2.Update student city using roll no

3.Delete student using roll no

4.Display all the students

5.Exit

Enter your choice:

6

Menu

1.Insert into table

2.Update student city using roll no

3.Delete student using roll no

4.Display all the students

5.Exit

Enter your choice:

5

Exited