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package studentdb;

import java.sql.*;
import java.util.Scanner;

class myException extends Exception{
    myException(String myException){
        System.out.println(myException);
    }
}

public class studentdb {
    Connection con = null;
    static Scanner sc = new Scanner(System.in);
    public Connection getConnect1(){
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            con =
DriverManager.getConnection("jdbc:mysql://172.16.34.105/1rv21mc067","1rv21mc067","1rv21mc067");
        }
        catch(Exception e){
            System.out.println(e);
        }
        return con;
    }
    public int insert(){
        int i = 0;
        try{
            con = getConnect1();
            String usn, name, address;
            System.out.println("enter usn:");
            usn = sc.next();
            System.out.println("enter name:");
            name = sc.next();
            System.out.println("enter address");

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        address= sc.next();

        String query = "insert into student values('"+usn+"','"+name+"','"+address+"')";

        PreparedStatement insertion = con.prepareStatement(query);

        i = insertion.executeUpdate(query);

        con.close();

    }

    catch(Exception e){

        System.out.println(e);

    }

    return i;

}

    public void display(String usn) {

        try {

            con = getConnect1();

            Statement sta = con.createStatement();

            String query = "select * from student where usn=?";

            if(usn.equalsIgnoreCase("1")) {

                throw new myException("usn is empty");

            }

            PreparedStatement ps = con.prepareStatement(query);

            ps.setString(1,usn);

            ResultSet rs = ps.executeQuery();

            while(rs.next()) {

                System.out.println("usn "+rs.getString(1)+" name "+rs.getString(3)+

                    " address "+rs.getString(3));

            }

        } catch (SQLException | ArithmeticException e) {

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        // TODO Auto-generated catch block
        e.printStackTrace();
    } catch (Exception e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
    }
}

public int delete(){
    int i = 0;
    try{
        con = getConnect1();

        System.out.println("enter usn:");
        String usn = sc.next();
        String query = "delete from student where usn = '"+usn+"'";
        PreparedStatement st = con.prepareStatement(query);
        i = st.executeUpdate(query);
        con.close();

    }
    catch(Exception e){
        System.out.println(e);
    }
    return i;
}

public int update(){
    int i = 0;
    try{
        con = getConnect1();

        System.out.println("1:name 2:address");
        int n = sc.nextInt();

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if(n==1){
    String usn, name;
    System.out.println("enter usn:");
    usn = sc.next();
    System.out.println("enter name:");
    name = sc.next();
    String query = "update student set name = '"+name+"'where usn = '"+usn+"'";
    PreparedStatement st = con.prepareStatement(query);
    i = st.executeUpdate(query);

}

else if(n == 2){
    System.out.println("enter usn:");
    String usn = sc.next();
    System.out.println("enter address");
    String address = sc.next();
    String query = "update student set name = '"+address+"'where usn = '"+usn+"'";
    PreparedStatement st = con.prepareStatement(query);
    i=st.executeUpdate(query);
}

con.close();
}

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

return i;

}

public static void main(String[] args){
    while(true){

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studentdb obj = new studentdb();

int i = 0;

System.out.println("1:insert 2:update 3:delete 4:display");

int n = sc.nextInt();

if(n == 1)
    i = obj.insert();
else if(n == 2)
    i = obj.update();
else if(n == 3)
    i = obj.delete();
else if(n == 4) {
    System.out.println("please enter student usn to display details:");
    String usn1=sc.next();

    obj.display(usn1);
}

if(i == 1)
    System.out.println("success");
else if(n==4){
    System.out.println("Student Table contents");
}
else
    System.out.println("failed");
System.out.println("do you want to continue? 1 for yes");
n = sc.nextInt();
if(n==1)
    continue;
else
    break;
}

```

}

}