Advance Java

Assignment 1

[Introduction to JDBC]

Created By Ganesh Telore
Under Guidance of Miss. Shivani Deshpande

Assignment No 1
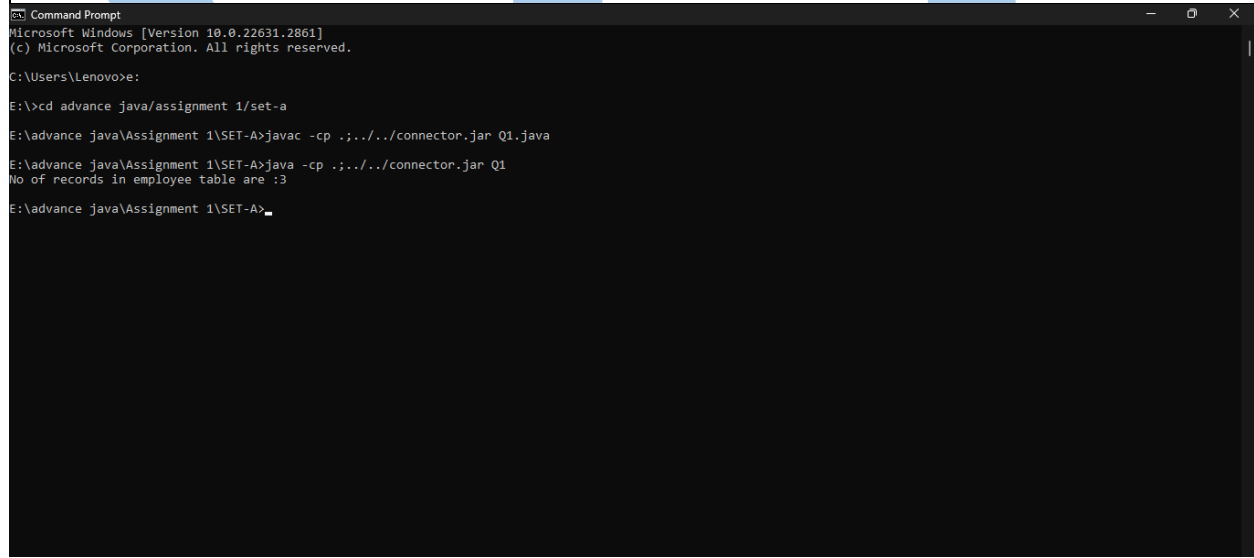
SET-A

Q1. Write a java program to count the no of records in a table

Code:
```java
import java.sql.*;
import java.io.*;
class Q1{
        public static void main(String[] args) {
                String db="jdbc:mysql://localhost:3306/advance_java";
                String uname="root";
                String pwd="";
                try{
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection conn=DriverManager.getConnection(db,uname,pwd);
                Statement state=conn.createStatement();
                ResultSet op=state.executeQuery("select count(*) as data from employee");
                        if(op.next()){
                        int Count=op.getInt("data");
                        System.out.println("No of records in employee table are :"+Count);
                        }
                        op.close();
                        state.close();
                        conn.close();
                }
                catch(Exception e){
                        System.out.println(e);
                }
        }
}
```

Output:

```
Command Prompt                                                              —   □   ×
Microsoft Windows [Version 10.0.22631.2861]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Lenovo>e:

E:\>cd advance java/assignment 1/set-a

E:\advance java\Assignment 1\SET-A>javac -cp .;../../connector.jar Q1.java

E:\advance java\Assignment 1\SET-A>java -cp .;../../connector.jar Q1
No of records in employee table are :3

E:\advance java\Assignment 1\SET-A>
```
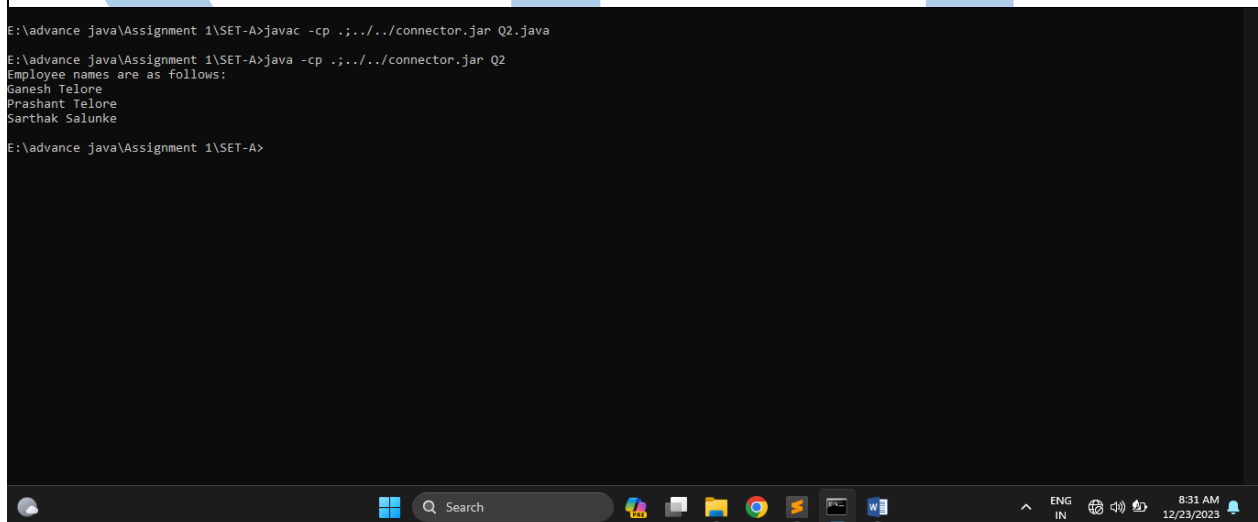
Assignment No 1
SET-A
Q2. Write a java program to display all the EName from Emp table. Assume that (ENo, EName and Sal) table is already created.

Code:
```java
import java.sql.*;
import java.io.*;
class Q2{
        public static void main(String[] args) {
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        Statement state=conn.createStatement();
                        ResultSet op=state.executeQuery("select EName from employee");
                        System.out.println("Employee names are as follows: ");
                        while(op.next()){
                                String name=op.getString("EName");
                                System.out.println(name);
                        }
                        op.close();
                        state.close();
                        conn.close();
                }catch(Exception e){
                        System.out.println(e);
                }
        }
}
```

Output:

```
E:\advance java\Assignment 1\SET-A>javac -cp .;../../connector.jar Q2.java

E:\advance java\Assignment 1\SET-A>java -cp .;../../connector.jar Q2
Employee names are as follows:
Ganesh Telore
Prashant Telore
Sarthak Salunke

E:\advance java\Assignment 1\SET-A>
```
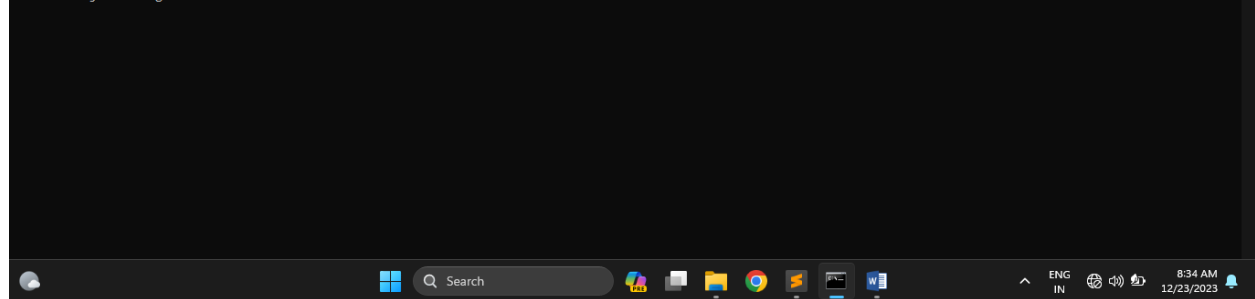
Assignment No 1
SET-A

Q3. Write a java program to create a table Student with attribute Rno, Sname and Per.

Code:
```java
import java.io.*;
import java.sql.*;
class Q3{
        public static void main(String[] args) {
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        Statement state=conn.createStatement();
                        String sql="create table student(rno int(10) primary key, sname
varchar(20), per double(10,2));";
                        int res=state.executeUpdate(sql);
                        if(res!=-1){
                                System.out.println("Student Table Created");
                        }
                        else{
                                System.out.println("Table Creation Failed..!");
                        }
                }catch(Exception e){
                        System.out.println("Error: "+e);
                }
        }
}
```

Output:

```
E:\advance java\Assignment 1\SET-A>javac -cp .;../../connector.jar Q3.java

E:\advance java\Assignment 1\SET-A>java -cp .;../../connector.jar Q3
Error: java.sql.SQLSyntaxErrorException: Table 'student' already exists

E:\advance java\Assignment 1\SET-A>
```

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Assignment No 1
SET-A
Q4. Write a java program to delete salary column in employee table. Assume that employee table already exists.

Code:
```java
import java.io.*;
import java.sql.*;
class Q4{
        public static void main(String[] args) {
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        Statement state=conn.createStatement();
                        String sql="alter table employee drop column Salary";
                        int res=state.executeUpdate(sql);
                        if(res!=-1){
                                System.out.println("Salary column deleted");
                        }
                        else{
                                System.out.println("Deletion Failed..!");
                        }
                }catch(Exception e){
                        System.out.println("Error: "+e);
                }
        }
}
```

Output:

```
E:\advance java\Assignment 1\SET-A>javac -cp .;../../connector.jar Q4.java

E:\advance java\Assignment 1\SET-A>java -cp .;../../connector.jar Q4
Error: java.sql.SQLSyntaxErrorException: Can't DROP COLUMN `Salary`; check that it exists

E:\advance java\Assignment 1\SET-A>
```
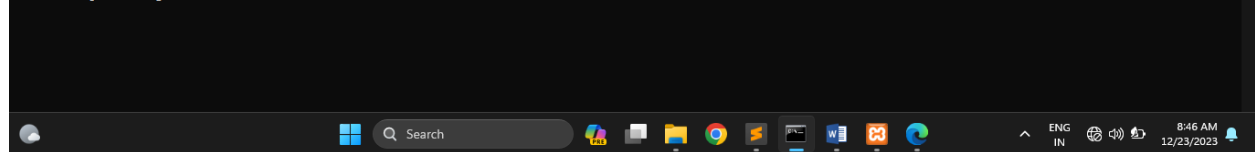
SET-A

Q5. Write a java program to delete the details of given teacher. Assume that Teacher table with attributes tno, tname, subject is already created.

Code:

```java
import java.io.*;
import java.sql.*;
class Q5{
        public static void main(String[] args) {
                try{
                Class.forName("com.mysql.cj.jdbc.Driver");
                Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        Statement state=conn.createStatement();
                        String sql="delete from teacher where tname='Ashok Nabage'";
                        int res=state.executeUpdate(sql);
                        if(res!=-1){
                                System.out.println("Record deleted");
                        }
                        else{
                                System.out.println("Deletion Failed..!");
                        }
                }catch(Exception e){
                        System.out.println("Error: "+e);
                }
        }
}
```

Output:

```
E:\advance java\Assignment 1\SET-A>javac -cp .;../../connector.jar Q5.java

E:\advance java\Assignment 1\SET-A>java -cp .;../../connector.jar Q5
Record deleted

E:\advance java\Assignment 1\SET-A>
```

Assignment No 1

Q1. Write a java program to accept the details of Hospital (HId, HName, Address, PH_No) and store it into the database. (Use Swing).

Code:

```java
import javax.swing.*;
import javax.swing.JOptionPane;
import java.awt.event.*;
import java.sql.*;
import java.awt.*;
import java.io.*;
class Q1 extends JFrame implements ActionListener{
        JButton submit;
        JTextField tb1,tb2,tb3,tb4;
        Q1(){
                JLabel lbl1=new JLabel("Enter HID: ");
                tb1=new JTextField();
                lbl1.setBounds(50,50,100,50);
                tb1.setBounds(150,50,200,40);
                JLabel lbl2=new JLabel("Enter HName: ");
                tb2=new JTextField();
                lbl2.setBounds(50,100,100,50);
                tb2.setBounds(150,100,200,40);
                JLabel lbl3=new JLabel("Enter Address: ");
                tb3=new JTextField();
                lbl3.setBounds(50,150,100,50);
                tb3.setBounds(150,150,200,40);
                JLabel lbl4=new JLabel("Enter Phone No: ");
                tb4=new JTextField();
                lbl4.setBounds(50,200,100,50);
                tb4.setBounds(150,200,200,40);
                submit=new JButton("Insert");
                submit.setBounds(150,250,200,40);
                submit.setFocusPainted(false);
                this.add(lbl1);
                this.add(tb1);
                this.add(lbl2);
                this.add(tb2);
                this.add(lbl3);
                this.add(tb3);
                this.add(lbl4);
                this.add(tb4);
                this.add(submit);
                submit.addActionListener(this);
                this.setLayout(null);
                this.setSize(500,500);
                this.setVisible(true);
                this.setDefaultCloseOperation(this.EXIT_ON_CLOSE);
```

```
            }
        public void actionPerformed(ActionEvent e){
                if(e.getSource()==submit){
                        int val1=Integer.parseInt(tb1.getText());
                        String val2=tb2.getText();
                        String val3=tb3.getText();
                        String val4=tb4.getText();
                        try{
                                Class.forName("com.mysql.cj.jdbc.Driver");
                                Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                                Statement state=conn.createStatement();
                                String sql="insert into hospital
values('"+val1+"','"+val2+"','"+val3+"','"+val4+"')";
                                int res=state.executeUpdate(sql);
                                if(res!=-1){
                                        JOptionPane.showMessageDialog(null,"Data Inserted.");
                                }
                                else{
                                JOptionPane.showMessageDialog(null,"Failed");
                                }
                                state.close();
                                conn.close();
                        }catch(Exception exc){
                                System.out.println(exc);
                        }
                }
        }
        public static void main(String[] args) {
                new Q1();
        }
}
```

Output:

Assignment No 1

SET-B

Q2. Write a java program to display the details of Doctor (DNO, DName, Specialization) on JTable. Assume Doctor table is already created.

Code:
```java
import java.sql.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;

class Q2 extends JFrame {
    JTable tbl;
    Q2(){
        String col[]={"DNo", "DName", "Specialization"};
        DefaultTableModel model=new DefaultTableModel();
        model.setColumnIdentifiers(col);
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java", "root", "");
            Statement state=conn.createStatement();
            ResultSet op=state.executeQuery("select * from doctor");
            while (op.next()) {
                Object[] row=new Object[col.length];
                for (int i=0;i<col.length;i++) {
                    row[i]=op.getObject(col[i]);
                }
                model.addRow(row);
            }
            tbl=new JTable(model);
            JScrollPane jp=new JScrollPane(tbl);
            add(jp);
            setSize(500, 300);
            setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            setLocationRelativeTo(null);
            setVisible(true);
        } catch (Exception e) {
            System.out.println(e);
        }
    }
    public static void main(String[] args) {
        new Q2();
    }
}
```
Output:

DNo	DName	Specialization
1	Ganesh Telore	Neurosurgeon

Database Table in JTable

Assignment No 1

SET-B

Q3. Write a java program to make the changes in data which is in ResultSet if you make the changes in data in database.

Code:
```
import java.sql.*;
class Q3{
        public static void main(String[] args) {
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        Statement st=conn.createStatement();
                        int res=st.executeUpdate("update friends set fage='19' where
fname='Ganesh Telore'");
                        if(res!=-1){
                                System.out.println("data updated...");
                        }
                        else{
                                System.out.println("error occured...");
                        }
                        ResultSet set=st.executeQuery("select fage from friends");
                        while(set.next()){
                        int age=set.getInt("fage");
                        System.out.println("Updated Age is: "+age);
                }
                }catch(Exception e){
                        System.out.println(e);
                }
        }
}
```

Output:

```
E:\advance java\Assignment 1\SET-B>java -cp .;../../connector.jar Q3
data updated...
Updated Age is: 19
```

Assignment No 1
SET-B

Q4. Write a java program for the following:
    ➢ Create a Table
    ➢ Alter a Table
    ➢ Drop a Table

Code:

```java
import java.sql.*;
import java.io.*;
import java.util.*;
class Q4 {
        public static void main(String[] args) {
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/ethicaldood","root","");
                        Statement state=conn.createStatement();
                        Scanner get=new Scanner(System.in);
                        /*String sql="create table friends(fname varchar(20),fage int(5),faddr
varchar(20),democol varchar(5))";
                        int res=state.executeUpdate(sql);
                        if(res!=-1){
                                System.out.println("Table Created.");
                        }else{
                                System.out.println("Table Created.");
                        }*/
                        /*String sql2="alter table friends drop column democol";
                        int res2=state.executeUpdate(sql2);
                        if(res2!=-1){
                                System.out.println("Table Altered");
                        }else{
                                System.out.println("Table not altered");
                        }*/
                        String sql3="drop table friends";
                        int res3=state.executeUpdate(sql3);
                        if(res3!=-1){
                                System.out.println("Table Dropped");
                        }
                        else{
                                System.out.println("Table not dropped");
                        }
                        state.close();
                        conn.close();
                }catch(Exception e){
                        System.out.println(e);
                }
        }
```

```
}
```

Output:

```
E:\advance java\Assignment 1\SET-B>java -cp .;../../connector.jar Q4
java.sql.SQLSyntaxErrorException: Unknown table 'ethicaldood.friends'
```

Note: The output shown above is performed when drop table friends query fired on db.

Assignment No 1

Q5. Write a java program to accept the details of College (CID, CName, Address) and display it on next frame. (Use Swing and PreparedStatement).

Code:

```java
import javax.swing.*;
import javax.swing.JOptionPane;
import java.awt.event.*;
import java.sql.*;
import java.awt.*;
import java.io.*;
class Q5 extends JFrame implements ActionListener{
        JFrame f1,f2;
        JButton submit;
        JTextField tb1,tb2,tb3,tb4;
        JLabel l1,l2,l3;
        Q5(){
                f1=new JFrame();
                JLabel lbl1=new JLabel("Enter CID: ");
                tb1=new JTextField();
                lbl1.setBounds(50,50,100,50);
                tb1.setBounds(150,50,200,40);
                JLabel lbl2=new JLabel("Enter CName: ");
                tb2=new JTextField();
                lbl2.setBounds(50,100,100,50);
                tb2.setBounds(150,100,200,40);
                JLabel lbl3=new JLabel("Enter Address: ");
                tb3=new JTextField();
                lbl3.setBounds(50,150,100,50);
                tb3.setBounds(150,150,200,40);
                submit=new JButton("Insert");
                submit.setBounds(150,200,200,40);
                submit.setFocusPainted(false);
                f1.add(lbl1);
                f1.add(tb1);
                f1.add(lbl2);
                f1.add(tb2);
                f1.add(lbl3);
                f1.add(tb3);
                f1.add(submit);
                submit.addActionListener(this);
                f1.setLayout(null);
                f1.setSize(500,500);
                f1.setVisible(true);
                f1.setDefaultCloseOperation(f1.EXIT_ON_CLOSE);
        }
        public void actionPerformed(ActionEvent e){
                if(e.getSource()==submit){
```

```java
                int val1=Integer.parseInt(tb1.getText());
                String val2=tb2.getText();
                String val3=tb3.getText();
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        String sql="insert into college values(?,?,?)";
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        PreparedStatement state=conn.prepareStatement(sql);
                        state.setInt(1,val1);
                        state.setString(2,val2);
                        state.setString(3,val3);
                        int res=state.executeUpdate();
                        if(res!=-1){
                                JOptionPane.showMessageDialog(null,"Data Inserted.");
                        }
                        else{
                        JOptionPane.showMessageDialog(null,"Failed");
                        }
                        state.close();
                        conn.close();
                }catch(Exception exc){
                        System.out.println(exc);
                }
                                        f1.setVisible(false);
                f2=new JFrame();
                l1=new JLabel("college id");
        l2=new JLabel("College name");
        l3=new JLabel("College name");
        l1.setBounds(100,50,100,50);
        l2.setBounds(100,100,100,50);
        l3.setBounds(100,150,100,50);
        f2.add(l1);
        f2.add(l2);
        f2.add(l3);
        f2.setLayout(null);
        f2.setSize(500,500);
                f2.setVisible(true);
                f2.setDefaultCloseOperation(f2.EXIT_ON_CLOSE);
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        String sql="select * from college";
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        PreparedStatement state=conn.prepareStatement(sql);
                        ResultSet op=state.executeQuery();
                        while(op.next()){
                                int cid=op.getInt("cid");
                                String cname=op.getString("cname");
                                String caddr=op.getString("addr");
                                l1.setText(String.valueOf(cid));
```
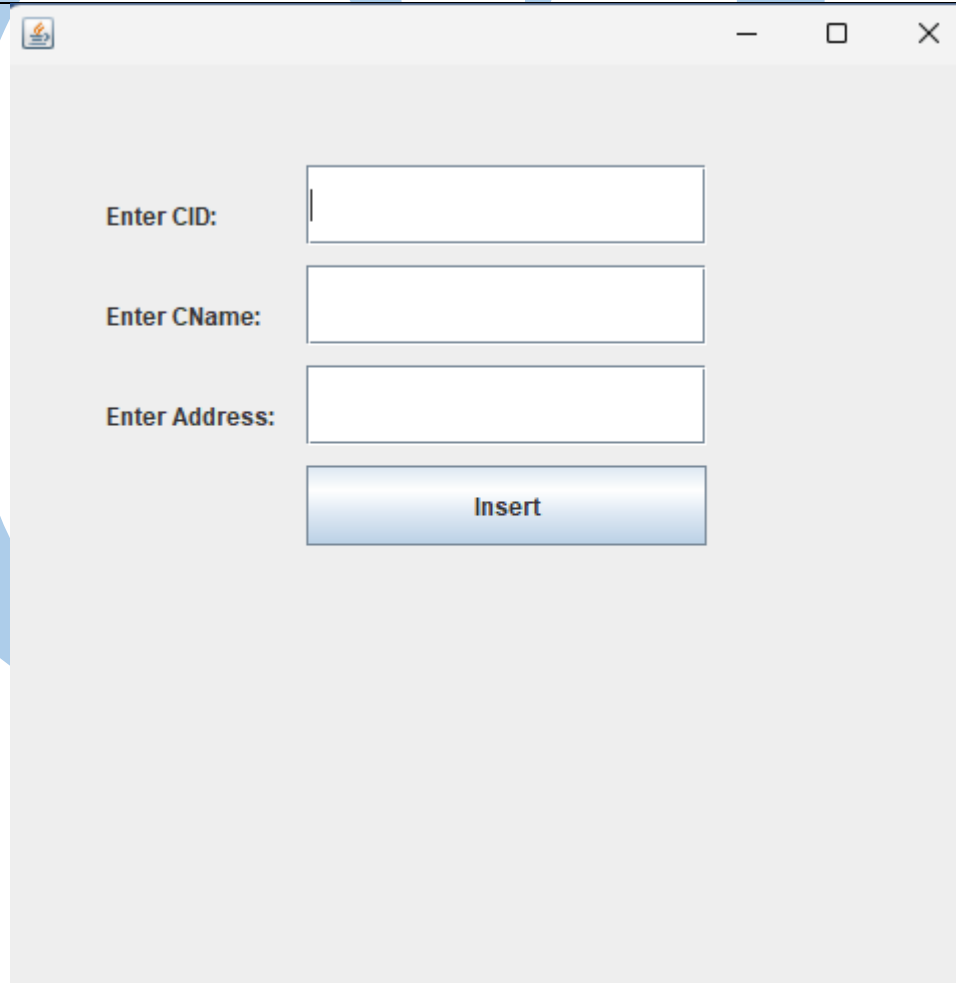
```
                                    l2.setText(cname);
                                    l3.setText(caddr);
                            }
                    }catch(Exception exc2){
                            System.out.println(exc2);
                    }
            }

    }
    public static void main(String[] args) {
            new Q5();
    }
}
```

Output:

<table>
<tr><td colspan="1">Assignment No 1</td></tr>
<tr><td>SET-C</td></tr>
<tr><td>Q1. Write a java program for the following:
 a. Create a table.
b. Insert
c. Update
d. Search
e. Display</td></tr>
</table>

Code:

```java
import java.sql.*;
class Q1{
        public static void main(String[] args) {
                try{
                        Class.forName("com.mysql.cj.jdbc.Driver");
                        Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                        Statement state=conn.createStatement();
                        String sql1="create table myfriend(fno int(5), fname varchar(20), faddr
varchar(20))";
                        String sql2="insert into myfriend values('1','Ganesh
Telore','Ganeshnagar')";
                        String sql3="update myfriend set faddr='GaneshNagar' where fno='1'";
                        String sql4="select * from myfriend where fno='1'";
                        String sql5="select * from myfriend";
                        int op1=state.executeUpdate(sql1);
                int op2=state.executeUpdate(sql2);
                        int op3=state.executeUpdate(sql3);
                        if(op1!=-1){
                                System.out.println("Table Created");
                        }
                        if(op2!=-1){
                                System.out.println("Data inserted");
                        }
                        if(op3!=-1){
                                System.out.println("Data updated");
                        }
                        System.out.println("Searched Friend details having fno 1: ");
                        ResultSet rs=state.executeQuery(sql4);
                        while(rs.next()){
                                int fno=rs.getInt("fno");
                                String fname=rs.getString("fname");
                                String faddr=rs.getString("faddr");
                                System.out.println("fno: "+fno+" fname: "+fname+" faddress:
"+faddr);
                        }
                        rs.close();
                        System.out.println("All Friends Details: ");
```

```
                        ResultSet set=state.executeQuery(sql5);
                        while(set.next()){
                                int fno=set.getInt("fno");
                                String fname=set.getString("fname");
                                String faddr=set.getString("faddr");
                                System.out.println("fno: "+fno+" fname: "+fname+" faddress:
"+faddr);
                        }
                }catch(Exception e){
                        System.out.println(e);
                }

        }
}
```

Output:

```
E:\advance java\Assignment 1\SET-C>java -cp .;../../connector.jar Q1
Table Created
Data inserted
Data updated
Searched Friend details having fno 1:
fno: 1 fname: Ganesh Telore faddress: GaneshNagar
All Friends Details:
fno: 1 fname: Ganesh Telore faddress: GaneshNagar
```
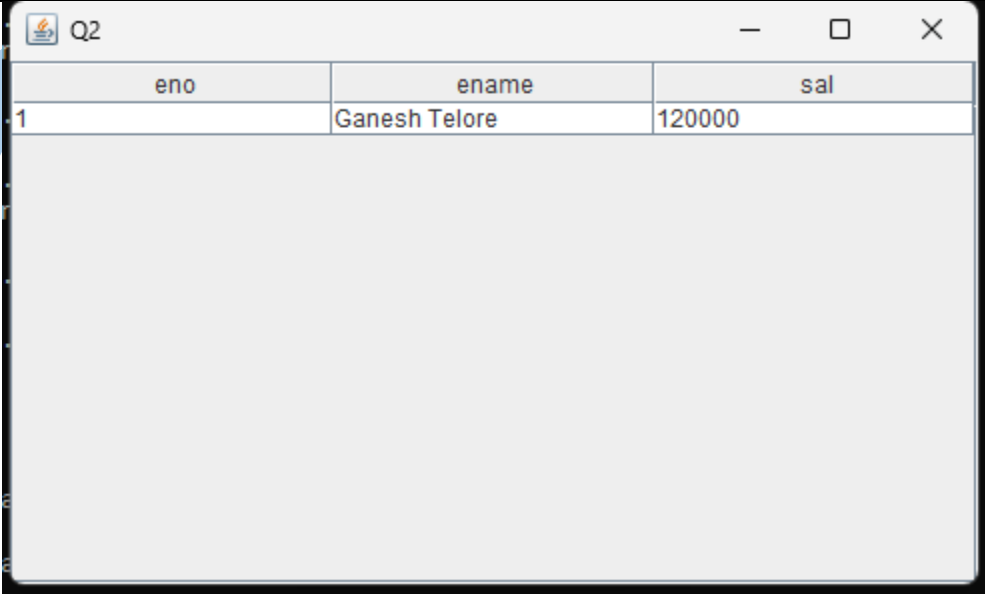
Q2. Write a java program to update the salary of given employee and display updated details in JTable. (Use Swing). Assume Emp (ENo, EName, Sal) table is already created.

Code:

```java
import java.sql.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
class Q2 extends JFrame{
    JTable tbl;
    Q2(){
        String col[] = {"eno", "ename", "sal"};
        DefaultTableModel model = new DefaultTableModel();
        model.setColumnIdentifiers(col);
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java", "root", "");
            Statement state = conn.createStatement();
            ResultSet rs = state.executeQuery("select * from emp");
            while (rs.next()){
                Object[] row = new Object[col.length];
                for (int i=0;i<col.length;i++){
                    row[i] = rs.getObject(col[i]);
                }
                model.addRow(row);
            }
            tbl = new JTable(model);
            JScrollPane jp = new JScrollPane(tbl);
            add(jp);
            setTitle("Q2");
            setSize(500, 300);
            setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            setLocationRelativeTo(null);
            setVisible(true);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
    public static void main(String[] args) {
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java", "root", "");
            Statement state = conn.createStatement();
            String sql="update emp set sal='120000' where ename='Ganesh Telore'";
            int res=state.executeUpdate(sql);
```

```
            if(res!=-1){
                System.out.println("Succeed...");
            }
        }catch(Exception e){
            System.out.println(e);
        }
        new Q2();

    }
}
```

Output:

Assignment No 1

SET-C

Q3. Write a java program for the implementation of Scrollable ResultSet. Consider Teacher (TID, TName, Subject) table is already created.

Code:
```java
import java.sql.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.table.DefaultTableModel;
class Q3 extends JFrame{
    JTable tbl;
    Q3(){
        String col[] = {"tid", "tname", "subject"};
        DefaultTableModel model = new DefaultTableModel();
        model.setColumnIdentifiers(col);
        try{
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java", "root", "");
            Statement state = conn.createStatement();
            ResultSet rs = state.executeQuery("select * from teacher2");
            while (rs.next()){
                Object[] row = new Object[col.length];
                for (int i=0;i<col.length;i++){
                    row[i] = rs.getObject(col[i]);
                }
                model.addRow(row);
            }
            tbl = new JTable(model);
            JScrollPane jp = new JScrollPane(tbl);
            add(jp);
            setTitle("Q2");
            setSize(500, 100);
            setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            setLocationRelativeTo(null);
            setVisible(true);
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
    public static void main(String[] args) {
        new Q3();

    }
}
```
Output:

tid	tname	subject
1	Rohidas Lande	Android
2	Shivani Deshpande	Advance Java

SET-C

Q4. Write a java program for the following: Accept the details of 5 Employees (ENo, EName, Salary), store it into the JTable by clicking on Add Button. If user clicks on Save button then data from JTable must be save into the database.

Code:
```java
import javax.swing.*;
import javax.swing.table.*;
import java.awt.event.*;
import java.awt.*;
import java.sql.*;
class Q4 extends JFrame implements ActionListener{
        JTextField tb1,tb2,tb3;
        JButton btn,submit;
        DefaultTableModel model;
        JTable tbl;
        Q4(){
                tb1=new JTextField();
                tb1.setBounds(50,50,150,40);
                this.add(tb1);
                tb2=new JTextField();
                tb2.setBounds(50,100,150,40);
                this.add(tb2);
                tb3=new JTextField();
                tb3.setBounds(50,150,150,40);
                this.add(tb3);
                btn=new JButton("Add");
                btn.setBounds(50,200,150,40);
                btn.setFocusPainted(false);
                btn.setOpaque(true);
                btn.setBackground(Color.GREEN);
                this.add(btn);
                btn.addActionListener(this);
                model = new DefaultTableModel();
                model.addColumn("ENo");
                model.addColumn("EName");
                model.addColumn("Salary");
                tbl=new JTable(model);
                JScrollPane sp = new JScrollPane(tbl);
                sp.setBounds(50,300,300,200);
                this.add(sp);
                submit=new JButton("Submit");
                submit.setBounds(50,550,150,40);
                this.add(submit);
                submit.addActionListener(this);
                this.setLayout(null);
                this.setVisible(true);
                this.setSize(500,700);
```

```java
                this.setDefaultCloseOperation(this.EXIT_ON_CLOSE);
        }
        public void actionPerformed(ActionEvent e){
                if(e.getSource()==btn){
                        String eno=tb1.getText();
                        String ename=tb2.getText();
                        String sal=tb3.getText();
                        model.addRow(new Object[]{eno,ename,sal});
                        tb1.setText("");
                        tb2.setText("");
                        tb3.setText("");
                }

                else if(e.getSource()==submit){
                        int res=0;
                        try{
                                Class.forName("com.mysql.cj.jdbc.Driver");
                                Connection
conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java","root","");
                                Statement state=conn.createStatement();
                                for (int i=0;i<model.getRowCount();i++) {
        String eno=model.getValueAt(i,0).toString();
        String ename=model.getValueAt(i,1).toString();
        String sal=model.getValueAt(i,2).toString();

        String query = "INSERT INTO employee2 VALUES
("'+eno+"','"+ename+"','"+sal+"')";
        res=state.executeUpdate(query);
        }
        if(res!=-1){
                JOptionPane.showMessageDialog(null,"Data
Submitted...","Alert",JOptionPane.INFORMATION_MESSAGE);
        }
        state.close();
        conn.close();
                                }
                                catch(Exception ex){
                                        System.out.println(ex);
                                }
                        }
        }

        public static void main(String[] args) {
                new Q4();
        }
}
```
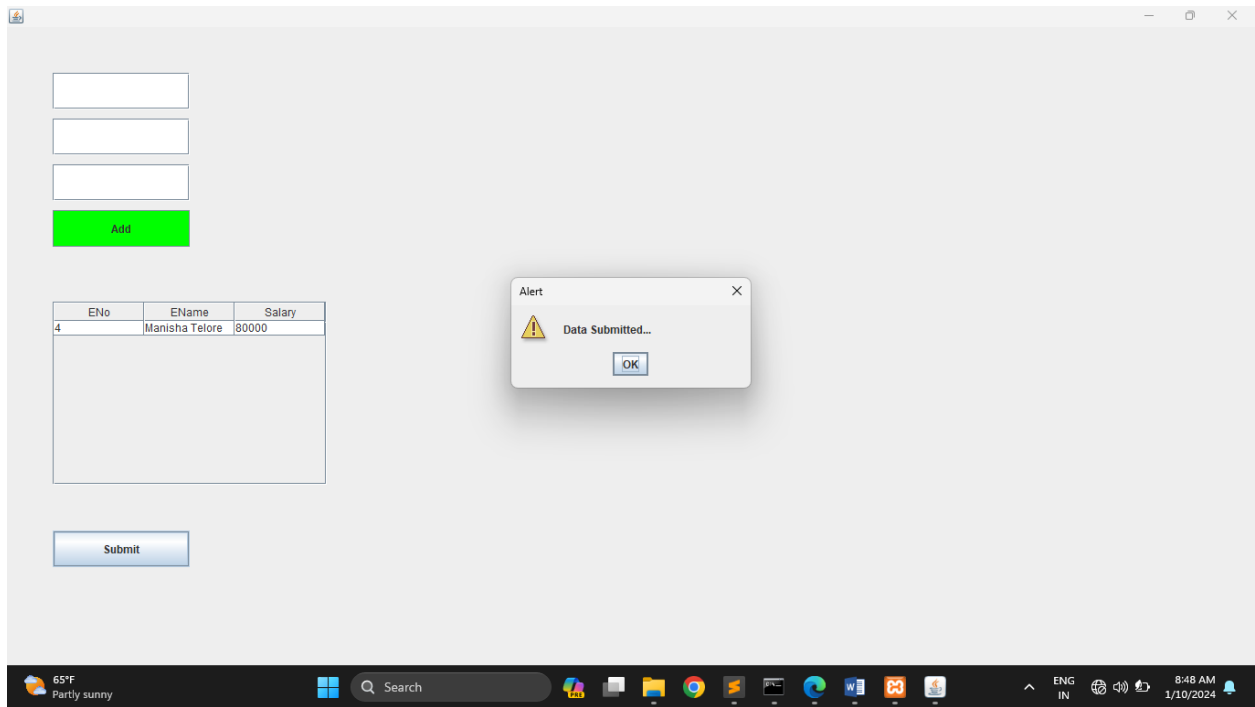
Output:

Assignment No 1

SET-C

Q5. Write a java program to create at least 5 tables in a database. Add a column(field) in a given table. Drop given table from the database.

Code:
```java
import java.sql.*;
import java.util.*;
class Q5 {
    public static void main(String[] args) {
        try{
            Scanner get = new Scanner(System.in);
            System.out.println("Enter table name: ");
            String tbl = get.next();
            Class.forName("com.mysql.cj.jdbc.Driver");
            Connection conn =
DriverManager.getConnection("jdbc:mysql://localhost:3306/advance_java", "root", "");
            Statement state = conn.createStatement();
            String sql1 = "create table tbl1(name varchar(10))";
            String sql2 = "create table tbl2(name varchar(10))";
            String sql3 = "create table tbl3(name varchar(10))";
            String sql4 = "create table tbl4(name varchar(10))";
            String sql5 = "create table tbl5(name varchar(10))";
            state.executeUpdate(sql1);
            state.executeUpdate(sql2);
            state.executeUpdate(sql3);
            state.executeUpdate(sql4);
            state.executeUpdate(sql5);
            String update = "alter table " + tbl + " add column field varchar(2) after name";
            int res1 = state.executeUpdate(update);
            String drop = "drop table " + tbl;
            int res2 = state.executeUpdate(drop);
            if (res1 != -1 && res2 != -1) {
                System.out.println("Action Performed");
            } else {
                System.out.println("Error Occurred...");
            }
        } catch (Exception e) {
            System.out.println(e);
        }
    }
}
```

Output:
```
E:\advance java\Assignment 1\SET-C>java -cp .;../../connector.jar Q5
Enter table name:
tbl4
Action Performed
```