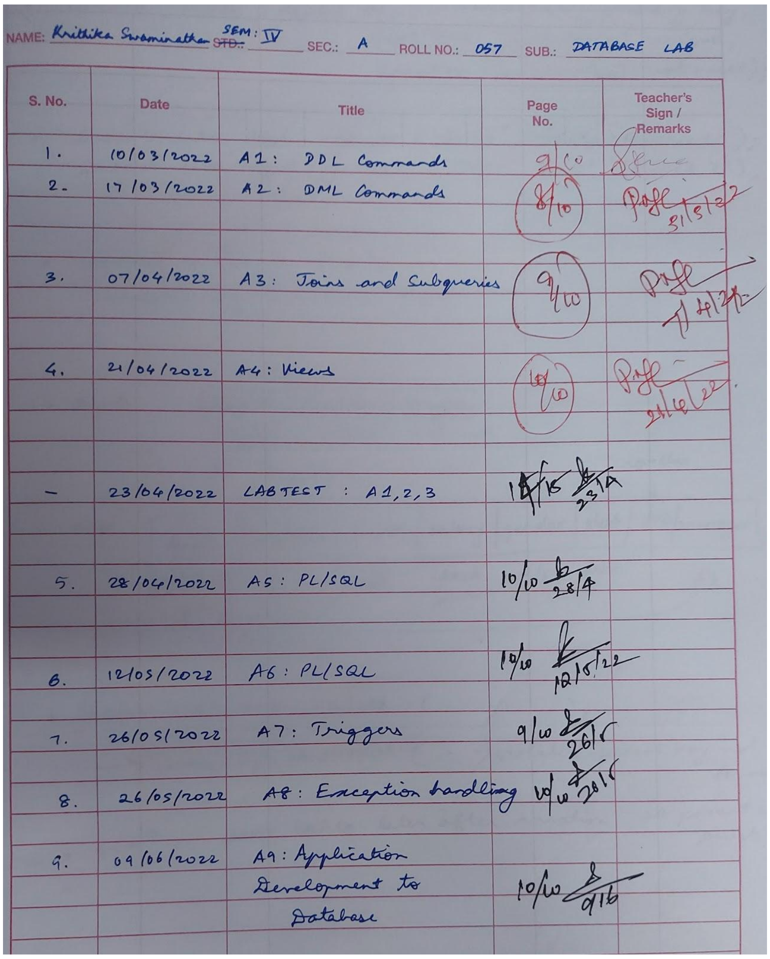
Assignment 9 – Database Programming using JDBC

Validation:



NAME: Krithika Swaminathan ~~STD.:~~ SEM: IV SEC.: A ROLL NO.: 057 SUB.: DATABASE LAB

S. No.	Date	Title	Page No.	Teacher's Sign / Remarks
1.	10/03/2022	A1: DDL Commands	9/10	
2.	17/03/2022	A2: DML Commands	8/10	31/3/22
3.	07/04/2022	A3: Joins and Subqueries	9/10	7/4/22
4.	21/04/2022	A4: Views	10/10	21/4/22
–	23/04/2022	LABTEST : A1,2,3	14/15	23/4
5.	28/04/2022	A5: PL/SQL	10/10	28/4
6.	12/05/2022	A6: PL/SQL	10/10	12/5/22
7.	26/05/2022	A7: Triggers	9/10	26/5
8.	26/05/2022	A8: Exception handling	10/10	26/5
9.	09/06/2022	A9: Application Development to Database	10/10	9/6

Schema diagram:

Emp_Payroll:

eid	ename	dob	sex	desg	basic	da	hra	pf	mc	gross	tot_deduc	net_pay

Script file:

```
SQL> @z:/a9conn.sql;
SQL> REM Assignment 9
SQL>
SQL> REM ------------------------------------------------------------------------
> REM *** ASSIGNMENT QUESTIONS ***
SQL> REM ------------------------------------------------------------------------
>
SQL> REM To calculate the net pay of an employee, develop a PL/SQL procedure/function that accepts only the eid and basic and calculates as per the following:
SQL> REM Dearness Allowance [DA] = 60%
SQL> REM House Rent Allowance [HRA]=11%
SQL> REM Provident Fund [PF] = 4%
SQL> REM Mediclaim [MC] = 3%
SQL> REM Gross = Basic + DA + HRA
SQL> REM Total Deduction = PF + MC
SQL> REM Net Pay = Gross – Total Deduction
SQL> REM Call the procedure/function from the application by passing appropriate parameter(s) and update the corresponding record.

SQL>
SQL> drop table emp_payroll;

Table dropped.

SQL>
SQL> create table emp_payroll(
  2         eid number(5) constraint e_pk primary key,
  3         ename varchar2(20),
  4         dob date,
  5         sex varchar2(10),
  6         desg varchar2(30),
  7         basic number,
  8         da number,
  9         hra number,
 10         pf number,
 11         mc number,
 12         gross number,
 13         tot_deduc number,
 14         net_pay number
 15         );

Table created.

SQL>
SQL> desc emp_payroll;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------------------
 EID                                       NOT NULL NUMBER(5)
 ENAME                                VARCHAR2(20)
 DOB                                  DATE
 SEX                                  VARCHAR2(10)
 DESG                                 VARCHAR2(30)
 BASIC                                NUMBER
 DA                                   NUMBER
 HRA                                  NUMBER
 PF                                   NUMBER
 MC                                   NUMBER
 GROSS                                NUMBER
 TOT_DEDUC                            NUMBER
 NET_PAY                              NUMBER

SQL>
SQL> select * from emp_payroll;

no rows selected

SQL>
SQL> create or replace procedure calcpay
  2  (eidip in emp_payroll.eid%type) as
  3          b emp_payroll.basic%type;
  4          daip emp_payroll.da%type;
  5          hraip emp_payroll.hra%type;
  6          pfip emp_payroll.pf%type;
  7          mcip emp_payroll.mc%type;
  8          grossip emp_payroll.gross%type;
  9          totded emp_payroll.tot_deduc%type;
 10          netpay emp_payroll.net_pay%type;
 11  begin
 12          select basic into b from emp_payroll where eid = eidip;
 13          update emp_payroll set da = 0.6*b, hra = 0.11*b, pf = 0.04*b, mc = 0.03*b where eid  =
eidip;
 14          select da, hra, pf, mc into daip, hraip, pfip, mcip from emp_payroll where eid = eidip;
 15          totded:= pfip+mcip;
 16          grossip:=b+daip+hraip;
 17          netpay:=grossip-totded;
 18          update emp_payroll set tot_deduc = totded, gross = grossip, net_pay = netpay where eid
= eidip;
 19  end;
 20  /

Procedure created.

SQL>
SQL>
SQL>
SQL> REM ************************END OF SQL FILE *****************************
```

Connectivity - Script file (Java):

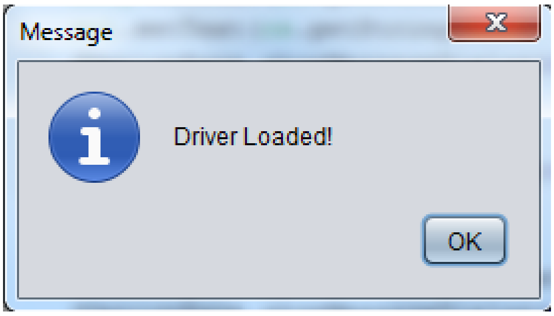
```java
package jdbc;

/*@author 1057*/

import javax.swing.*;
import java.sql.*;
import java.sql.Statement;
import java.util.logging.Level;
import java.util.logging.Logger;

public class JDBC extends javax.swing.JFrame {

    /**
     * Creates new form JDBC
     */
    Connection con;
    Statement st;
    PreparedStatement ps;
    ResultSet rs;
    public JDBC() {
        initComponents();
        try{
            Class.forName("oracle.jdbc.OracleDriver");
            JOptionPane.showMessageDialog(this,"Driver Loaded!");

            try {
                con = 
DriverManager.getConnection("jdbc:oracle:thin:@10.6.4.33:1521:orcl","1057","1057");
                JOptionPane.showMessageDialog(this,"Connected to Oracle database!");
            }
            catch (SQLException ex) {
                Logger.getLogger(JDBC.class.getName()).log(Level.SEVERE, null, ex);
                JOptionPane.showMessageDialog(this,ex.getMessage());
            }
        }
        catch(ClassNotFoundException ex){
            Logger.getLogger(JDBC.class.getName()).log(Level.SEVERE, null, ex);
            JOptionPane.showMessageDialog(this,ex.getMessage());
        }
    }

    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
```

```
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
empid = new javax.swing.JTextField();
name = new javax.swing.JTextField();
dob = new javax.swing.JTextField();
sex = new javax.swing.JTextField();
sal = new javax.swing.JTextField();
update = new javax.swing.JButton();
insert = new javax.swing.JButton();
delete = new javax.swing.JButton();
search = new javax.swing.JButton();
clear = new javax.swing.JButton();
exit = new javax.swing.JButton();
jLabel8 = new javax.swing.JLabel();
desg = new javax.swing.JTextField();
calc_pay = new javax.swing.JButton();
jLabel9 = new javax.swing.JLabel();
netpay = new javax.swing.JTextField();

jLabel1.setText("jLabel1");

jTextField2.setText("jTextField1");

jButton1.setText("jButton1");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel2.setText("Employee ID: ");

jLabel3.setText("EMPLOYEE DATABASE");

jLabel4.setText("Name: ");

jLabel5.setText("Date of birth: ");
jLabel5.setToolTipText("");

jLabel6.setText("Sex: ");

jLabel7.setText("Basic salary: ");

empid.setCursor(new java.awt.Cursor(java.awt.Cursor.TEXT_CURSOR));
empid.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        empidActionPerformed(evt);
    }
});
```

```
name.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      nameActionPerformed(evt);
   }
});

dob.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      dobActionPerformed(evt);
   }
});

sex.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      sexActionPerformed(evt);
   }
});

sal.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      salActionPerformed(evt);
   }
});

update.setText("Update");
update.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      updateActionPerformed(evt);
   }
});

insert.setText("Insert");
insert.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      insertActionPerformed(evt);
   }
});

delete.setText("Delete");
delete.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      deleteActionPerformed(evt);
   }
});

search.setText("Search");
search.addActionListener(new java.awt.event.ActionListener() {
   public void actionPerformed(java.awt.event.ActionEvent evt) {
      searchActionPerformed(evt);
```

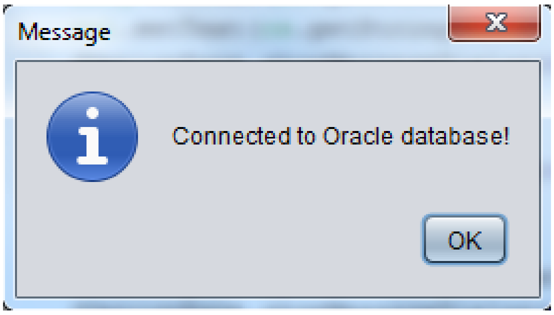
```
            }
        });

        clear.setText("Clear");
        clear.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                clearActionPerformed(evt);
            }
        });

        exit.setText("Exit");
        exit.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                exitActionPerformed(evt);
            }
        });

        jLabel8.setText("Designation: ");

        desg.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                desgActionPerformed(evt);
            }
        });

        calc_pay.setText("Calculate Net Pay");
        calc_pay.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                calc_payActionPerformed(evt);
            }
        });

        jLabel9.setText("Net pay: ");

        netpay.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                netpayActionPerformed(evt);
            }
        });

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(jLabel3)
                .addGap(140, 140, 140))
            .addGroup(layout.createSequentialGroup()
                .addGap(96, 96, 96)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jLabel4)
                    .addComponent(jLabel2)
                    .addComponent(jLabel5)
                    .addComponent(jLabel6)
                    .addComponent(jLabel7)
                    .addComponent(jLabel8))
                .addGap(80, 80, 80)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(sex)
                    .addComponent(sal)
                    .addComponent(empid, javax.swing.GroupLayout.PREFERRED_SIZE, 122, 
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(name)
                    .addComponent(dob)
                    .addComponent(desg))
                .addGap(45, 45, 45))
            .addGroup(layout.createSequentialGroup()
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(48, 48, 48)
                        .addComponent(insert)
                        .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(update)
                                .addGap(26, 26, 26)
                                .addComponent(delete)
                                .addGap(28, 28, 28)
                                .addComponent(search))
                            .addGroup(layout.createSequentialGroup()
                                .addGap(10, 10, 10)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                                    .addComponent(calc_pay, javax.swing.GroupLayout.DEFAULT_SIZE, 
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                                    .addGroup(layout.createSequentialGroup()
                                        .addComponent(clear)
                                        .addGap(18, 18, 18)
                                        .addComponent(exit))))))
                    .addGroup(layout.createSequentialGroup()
                        .addGap(111, 111, 111)
                        .addComponent(jLabel9)
                        .addGap(18, 18, 18)
                        .addComponent(netpay, javax.swing.GroupLayout.PREFERRED_SIZE, 109, 
javax.swing.GroupLayout.PREFERRED_SIZE)))
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(18, 18, 18)
                .addComponent(jLabel3)
                .addGap(22, 22, 22)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel2)
                    .addComponent(empid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel4)
                    .addComponent(name, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(dob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel5))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel6)
                    .addComponent(sex, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(jLabel8)
                    .addComponent(desg, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                .addGap(11, 11, 11)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(sal, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel7))
                .addGap(18, 18, 18)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(update)
                    .addComponent(delete)
                    .addComponent(search)
                    .addComponent(insert))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(clear)
                    .addComponent(exit))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .addComponent(calc_pay)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(netpay, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel9))
                .addContainerGap(16, Short.MAX_VALUE))
        );

        pack();
    }// </editor-fold>

    private void cleartext(){
        empid.setText("");
        name.setText("");
        dob.setText("");
        sex.setText("");
        desg.setText("");
        sal.setText("");
        netpay.setText("");
        }

    private void empidActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void nameActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void dobActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void sexActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void salActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void deleteActionPerformed(java.awt.event.ActionEvent evt) {
        try{
            String sql = "delete from emp_payroll where eid=?";
            ps = con.prepareStatement(sql);
            ps.setString(1, empid.getText());
            ps.execute();
            JOptionPane.showMessageDialog(this, "Deleted!");
            cleartext();
            }
            catch (SQLException ex) {
            Logger.getLogger(JDBC.class.getName()).log(Level.SEVERE, null, ex);
            JOptionPane.showMessageDialog(this,ex.getMessage());
            }
    }

    private void insertActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            String sql = "insert into emp_payroll values(?,?,?,?,?,?,null,null,null,null,null,null,null)";
            ps = con.prepareStatement(sql);
            ps.setString(1, empid.getText());
            ps.setString(2, name.getText());
            ps.setString(3, dob.getText());
            ps.setString(4, sex.getText());
            ps.setString(5, desg.getText());
            ps.setString(6, sal.getText());
            ps.execute();
            JOptionPane.showMessageDialog(this,"Inserted!");
            cleartext();
            }
            catch (SQLException ex) {
            Logger.getLogger(JDBC.class.getName()).log(Level.SEVERE, null, ex);
            JOptionPane.showMessageDialog(this,ex.getMessage());
            }
    }

    private void clearActionPerformed(java.awt.event.ActionEvent evt) {
        cleartext();
    }

    private void updateActionPerformed(java.awt.event.ActionEvent evt) {
        try{
            String sql = "update emp_payroll set ename=?,dob=?,sex=?,desg=?,basic=? where eid=?";
            ps = con.prepareStatement(sql);
            ps.setString(6, empid.getText());
            ps.setString(1, name.getText());
            ps.setString(2, dob.getText());
            ps.setString(3, sex.getText());
            ps.setString(4, desg.getText());
            ps.setString(5, sal.getText());
            ps.execute();
            JOptionPane.showMessageDialog(this, "Updated!");
            cleartext();
            }
            catch (SQLException ex) {
            Logger.getLogger(JDBC.class.getName()).log(Level.SEVERE, null, ex);
            JOptionPane.showMessageDialog(this,ex.getMessage());
            }
    }

    private void exitActionPerformed(java.awt.event.ActionEvent evt) {
        System.exit(0);
    }

    private void searchActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            String sql = "select * from emp_payroll where eid = '"+empid.getText()+"'";
            st =
con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE)
;
            rs = st.executeQuery(sql);
            if(rs.next()){
            empid.setText(rs.getString(1));
            name.setText(rs.getString(2));
            dob.setText(rs.getString(3));
            sex.setText(rs.getString(4));
            desg.setText(rs.getString(5));
            sal.setText(rs.getString(6));
            JOptionPane.showMessageDialog(this, "Record Found!");
            }
            else
            JOptionPane.showMessageDialog(this, "Record Not Found!");
            }
            catch (SQLException ex) {
            Logger.getLogger(JDBC.class.getName()).log(Level.SEVERE, null, ex);
            JOptionPane.showMessageDialog(this, ex.getMessage());
            }
    }

    private void desgActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void netpayActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }

    private void calc_payActionPerformed(java.awt.event.ActionEvent evt) {
        try {
            // TODO add your handling code here:
            CallableStatement stmt = con.prepareCall("{call calcpay(?)}");
            stmt.setString(1, empid.getText());
            stmt.execute();
            String sql = "select net_pay from emp_payroll where eid = '"+empid.getText()+"'";
            st =
con.createStatement(ResultSet.TYPE_SCROLL_SENSITIVE,ResultSet.CONCUR_UPDATABLE)
;
            rs = st.executeQuery(sql);
            if(rs.next()){
                netpay.setText(rs.getString(1));
                JOptionPane.showMessageDialog(this, "Net pay calculated!");
            }
        }
        catch (SQLException ex) {
            Logger.getLogger(JDBC.class.getName()).log(Level.SEVERE, null, ex);
            JOptionPane.showMessageDialog(this, ex.getMessage());
        }

    }

    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {
        /* Set the Nimbus look and feel */
        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(JDBC.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(JDBC.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(JDBC.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(JDBC.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
        }
        //</editor-fold>

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new JDBC().setVisible(true);
            }
        });
    }
    // Variables declaration - do not modify
    private javax.swing.JButton calc_pay;
    private javax.swing.JButton clear;
    private javax.swing.JButton delete;
    private javax.swing.JTextField desg;
    private javax.swing.JTextField dob;
    private javax.swing.JTextField empid;
    private javax.swing.JButton exit;
    private javax.swing.JButton insert;
    private javax.swing.JButton jButton1;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JLabel jLabel4;
    private javax.swing.JLabel jLabel5;
    private javax.swing.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JLabel jLabel8;
    private javax.swing.JLabel jLabel9;
    private javax.swing.JTextField jTextField2;
    private javax.swing.JTextField name;
    private javax.swing.JTextField netpay;
    private javax.swing.JTextField sal;
    private javax.swing.JButton search;
    private javax.swing.JTextField sex;
    private javax.swing.JButton update;
    // End of variables declaration
}

//END OF JAVA FILE
```

Output:



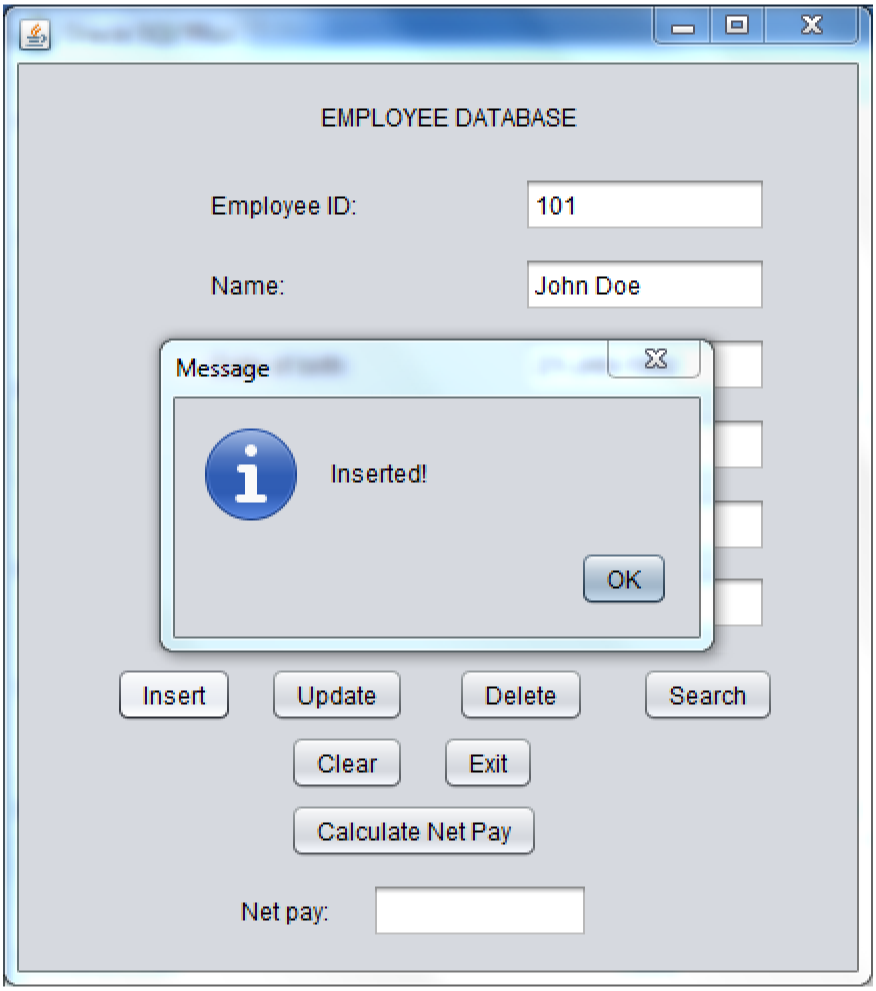
Message

Driver Loaded!



Message

Connected to Oracle database!



EMPLOYEE DATABASE

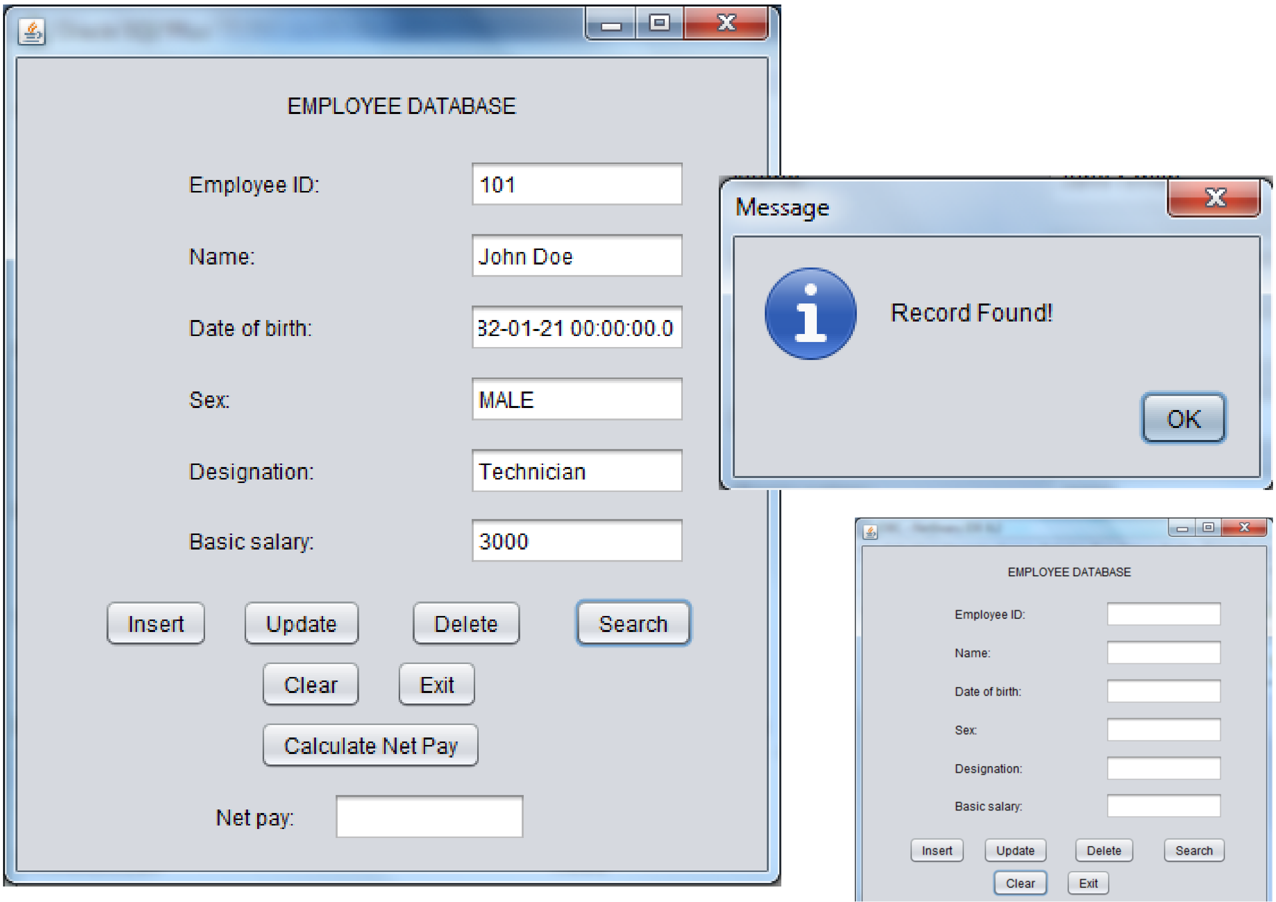
Employee ID: 101

Name: John Doe

Message

Inserted!

Net pay:



EMPLOYEE DATABASE

Employee ID: 101

Name: John Doe

Date of birth: 32-01-21 00:00:00.0

Sex: MALE

Designation: Technician

Basic salary: 3000

Net pay:

Message

Record Found!

EMPLOYEE DATABASE

Employee ID:

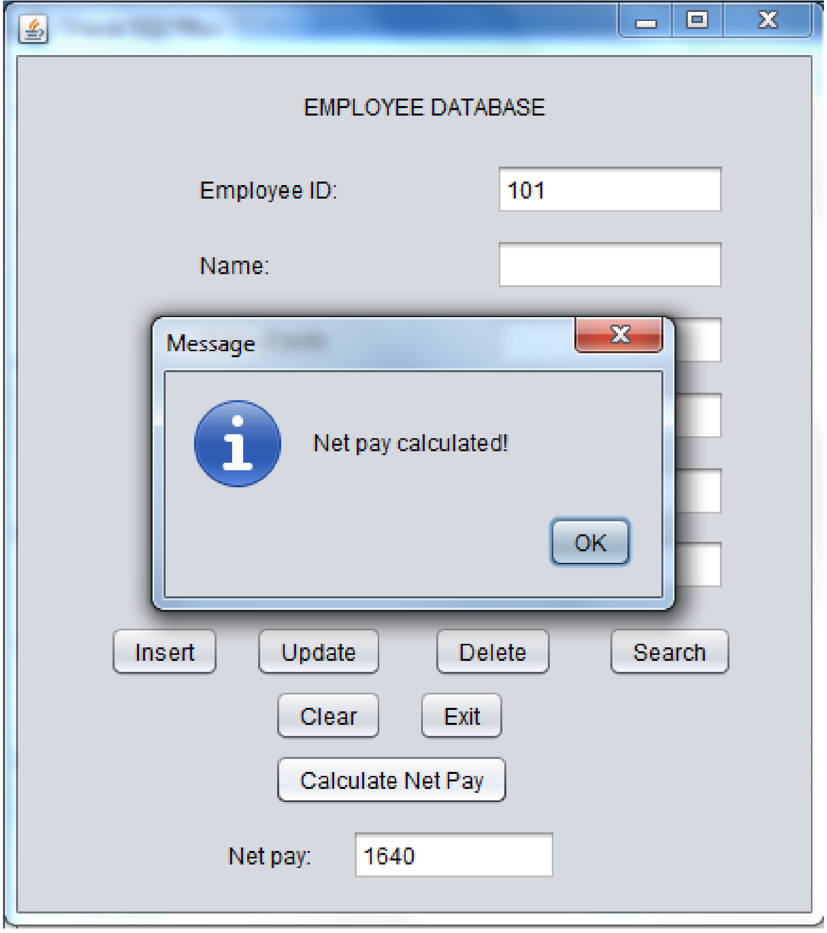
Name:

Date of birth:

Sex:

Designation:

Basic salary:



EMPLOYEE DATABASE

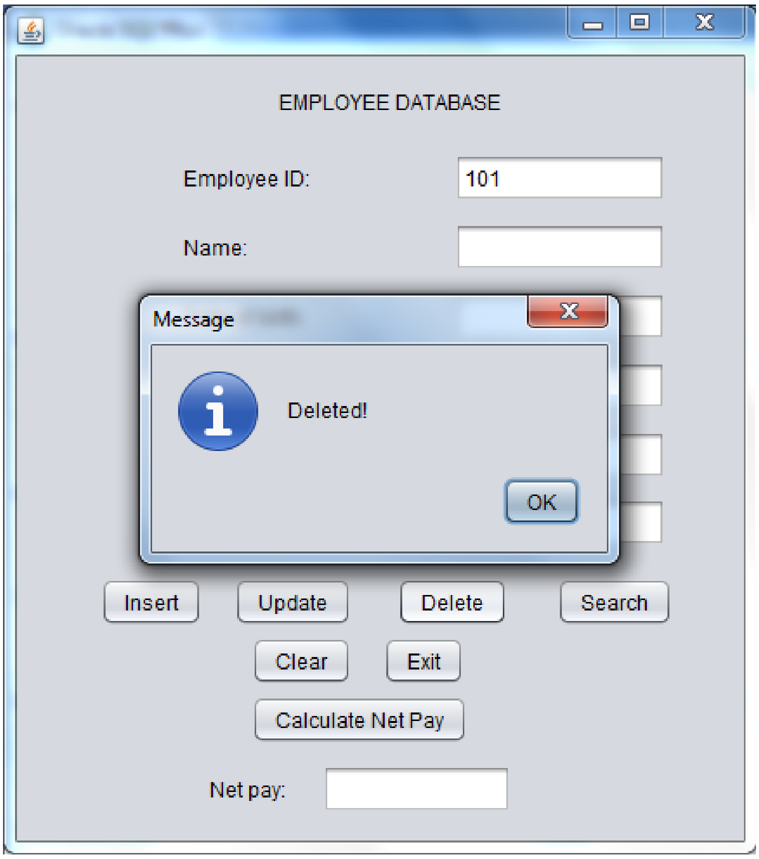
Employee ID: 101

Name:

Message

Net pay calculated!

Net pay: 1640



EMPLOYEE DATABASE

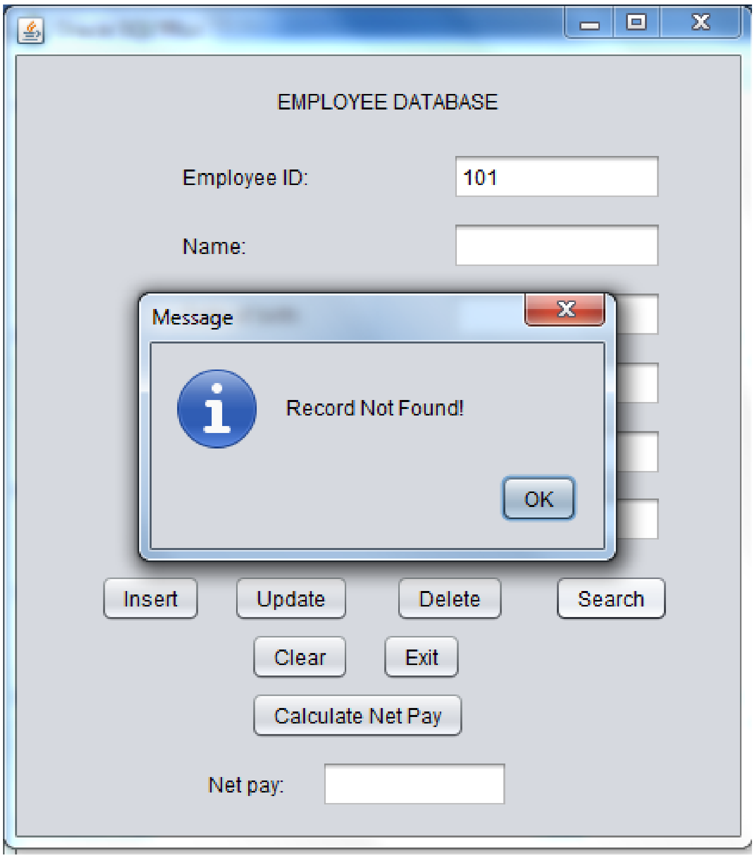
Employee ID: 101

Name:

Message

Deleted!

Net pay:



EMPLOYEE DATABASE

Employee ID: 101

Name:

Message

Record Not Found!

Net pay: