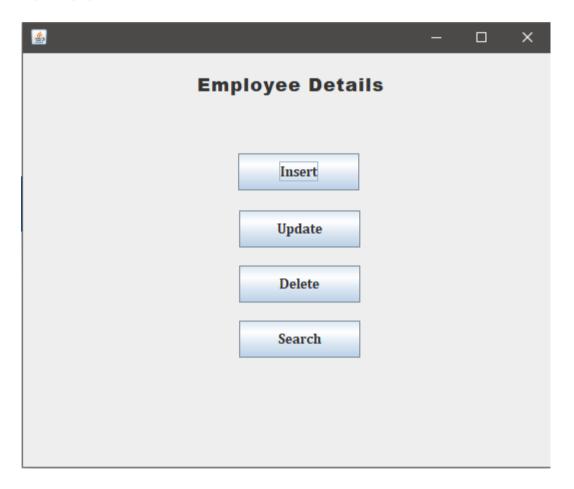
Database Application Programming using JDBC Assignment – 10

Application interface Design and its operations:

1. Main menu



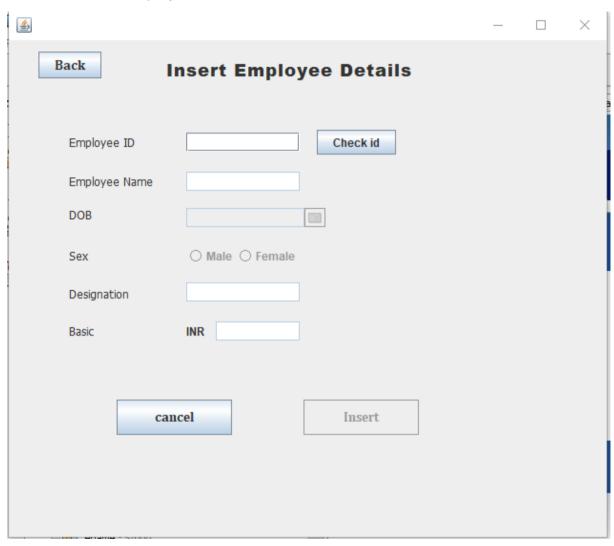
The Main menu has the options of

- Insert
- Update
- Delete
- Search

On the Employee payroll details database.

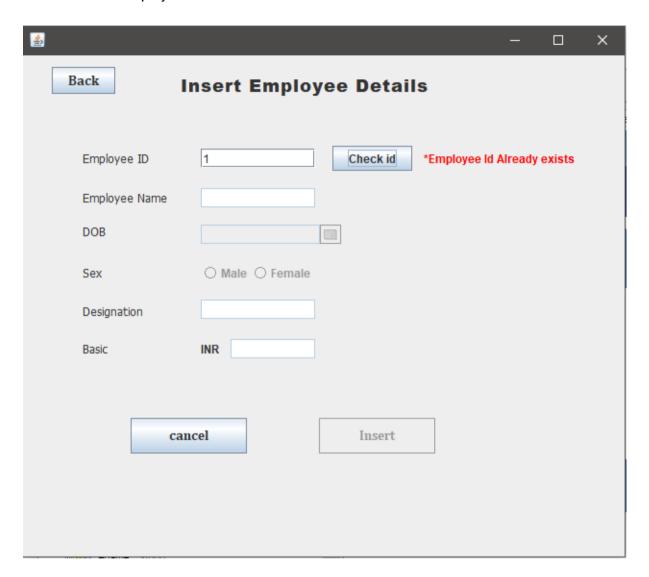
2. Insert Interface

a. Upon start the application disables the all the details except employee id and check id availability button. This checks whether the assigning employee ID is already in existence or not. This further reduces the primary key violation on employee ID.

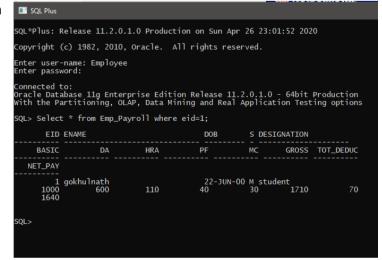


Here the Back and cancel button terminates the insert process and Insert button is disabled.

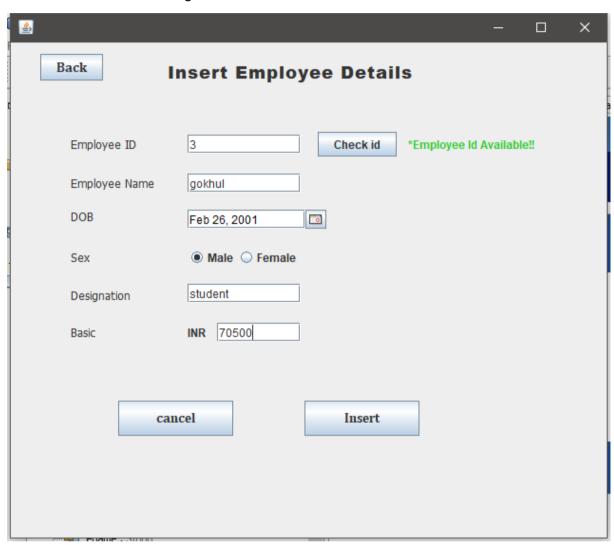
b. If we enter an Existing Employee id, as it violates the primary key of eid, it shows an error message besides the input field stating "Employee ID already exists" and the content will be still disabled until we enter a non-existing Employee id.



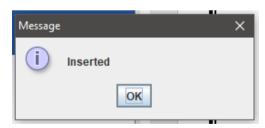
Here You can see that the data with Employee ID 1 exists.



c. Once you enter a non-existing Employee id the application enables u to fill up the remaining details.



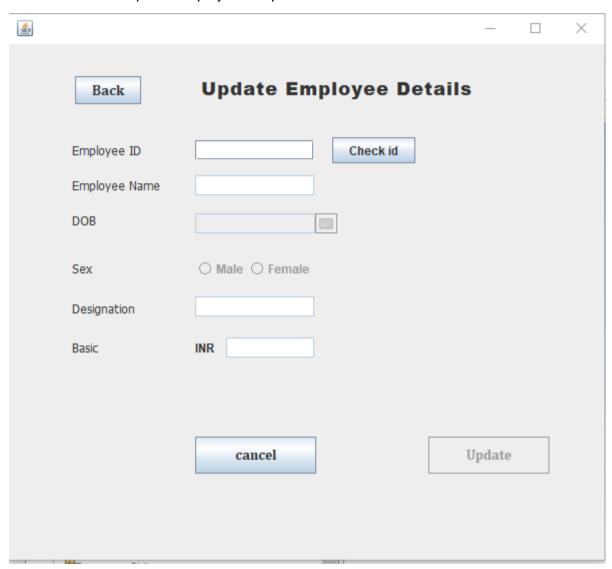
Which gives u an affirmative on insertion of the data in to the database. With proof of Insertion.





3. Update Interface

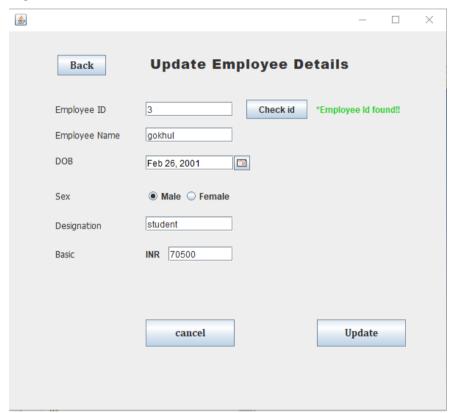
a. Upon start similar to the Insert interface all the button and input is disabled except the employee id input and check id button.



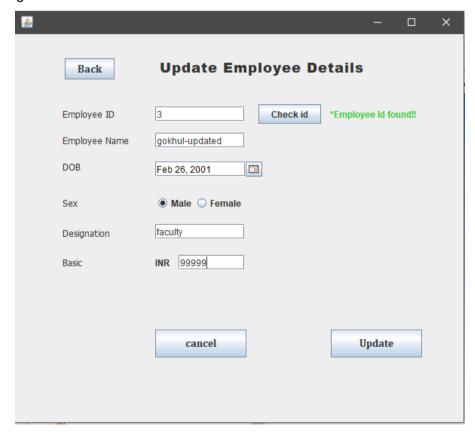
Here u could see the Update Employee details interface.

b. If you enter the Employee id whose details must be updated, an prompt messages pop stating "Employee id found" enables all the input field that can be updated.

Before updating the contents:



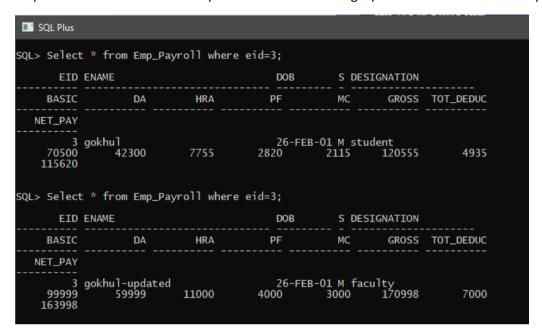
After updating the contents:



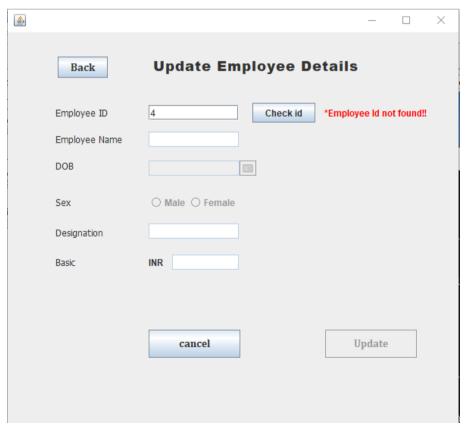
On successful Update a dialog box pops stating "Updated". Proof of updating attached.



The first sql statement was before the updated and the following sql statement was after the update.

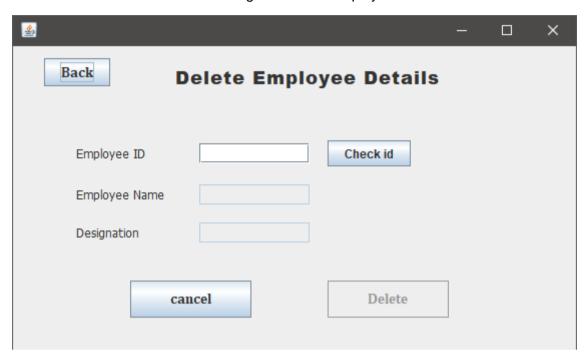


c. On entering a non-existing Employee ID all the inputs and button will be disabled and prompts a message "Employee ID not found".

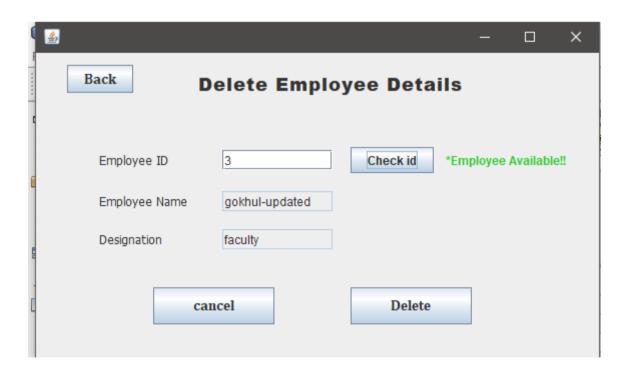


4. Delete Interface

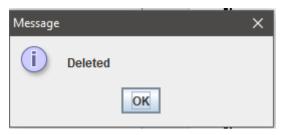
a. Initially Delete interface contains the information of employee id as input field and employee name, designation for more convenient for cross checking whether we are removing the correct employee details.



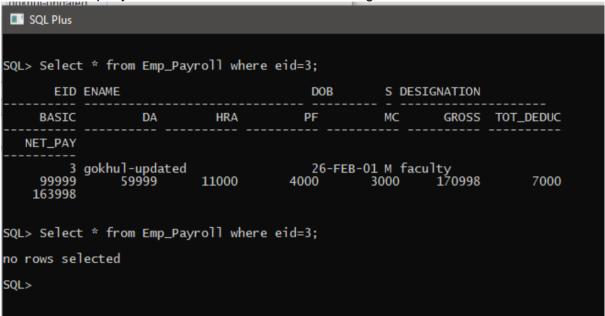
b. By entering the Employee id whose details are to be deleted, the information of the employee appears for further cross-check and these input are non editable.



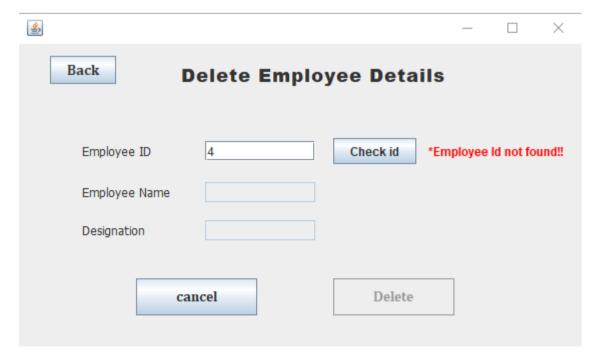
The pop-up dialog box appears on successful deletion. Proof is attached for deletion.



The first SQL query was before deletion and the following was after deletion.

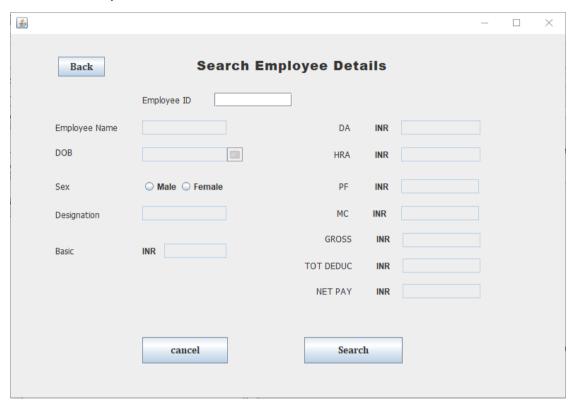


c. On entering the non-existing employee id it prompts that "Employee id not found."

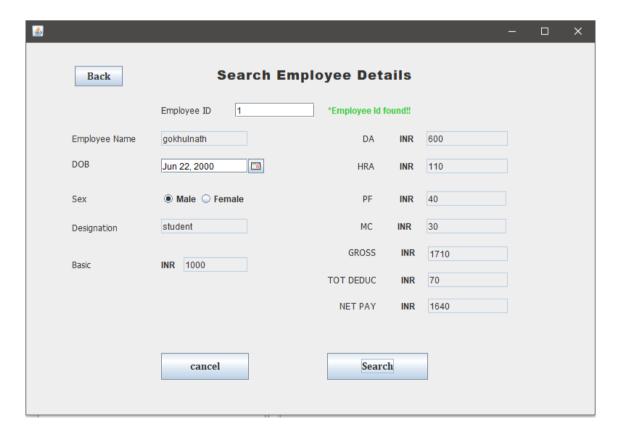


5. Search Interface

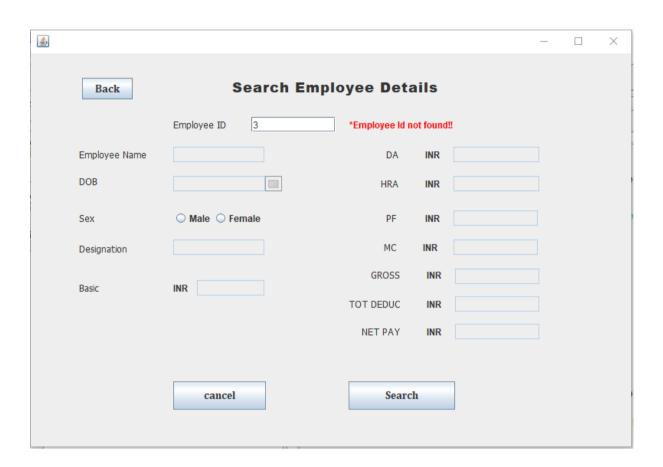
a. Everything in the interface is disabled, so you can't edit any information. You can just see the info.



b. Entering the employee id fills the data over the interface until the employee id exists in the database.



c. Non-existing employee id doesn't reveal any info. In this case since the employee id 3 was deleted previous tasks, it's not available in the database.



Technologies used:

- NetBeans 8.0.2
- Oracle Database 11g edition

SQL Commands and connection code

Connection code:

Connection: jdbc:oracle:thin:@localhost:1521:orcl

UserName: Employee

Password: gokhul

Database creation:

SQL> connect system/gokhul;

Connected.

SQL> create user Employee identified by gokhul;

User created.

SQL> grant connect, resource to Employee;

Grant succeeded.

SQL> connect Employee;

Enter password:

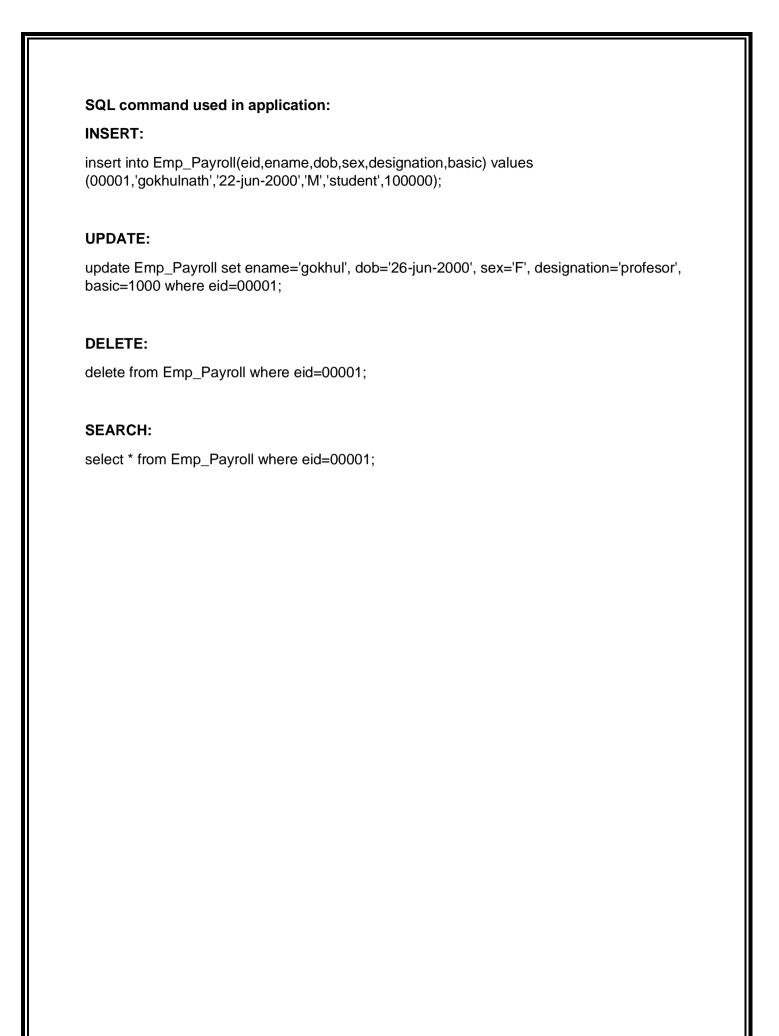
Connected.

SQL> create table Emp_Payroll(

- 2 eid number(5) constraint emp_id_pk primary key,
- 3 ename varchar(30),
- 4 dob date,
- 5 sex varchar(1),
- 6 designation varchar(20),
- 7 basic number(10),
- 8 da number(10),
- 9 hra number(10),
- 10 pf number(10),
- 11 mc number(10),

```
12
    gross number(10),
13 tot_deduc number(10),
14 net_pay number(10));
Table created.
SQL> create or replace procedure net_pay_calc(emp_id in Emp_Payroll.eid%type,
basic_amt in Emp_Payroll.basic%type) is
 2 da_amt Emp_Payroll.da%type;
 3 hra_amt Emp_Payroll.hra%type;
 4 pf_amt Emp_Payroll.pf%type;
 5 mc_amt Emp_Payroll.mc%type;
 6 gross_amt Emp_Payroll.gross%type;
 7 tot_deduc_amt Emp_Payroll.tot_deduc%type;
 8 net_pay_amt Emp_Payroll.net_pay%type;
 9 begin
10 da_amt:=0.6*basic_amt;
11 hra_amt:=0.11*basic_amt;
12 pf_amt:=0.04*basic_amt;
13 mc_amt:=0.03*basic_amt;
14 gross_amt:=basic_amt+da_amt+hra_amt;
15 tot_deduc_amt:=pf_amt+mc_amt;
16 net_pay_amt:=gross_amt-tot_deduc_amt;
17 update Emp_Payroll set da=da_amt, hra=hra_amt, pf=pf_amt, mc=mc_amt,
gross=gross_amt,
18 tot_deduc=tot_deduc_amt, net_pay=net_pay_amt where eid=emp_id;
19 exception
20 WHEN no_data_found THEN
21 dbms_output.put_line('no orders found!!');
22 end;
23 /
```

Procedure created.



GUI CODE

1. Main Menu:

```
private void InsertActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_InsertActionPerformed
    Insert inst = new Insert():
    inst.show();
    this.hide();
  \//GEN-LAST:event InsertActionPerformed
  private void UpdateActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event UpdateActionPerformed
    Update upd = new Update();
    upd.show();
    this.hide();
  }//GEN-LAST:event_UpdateActionPerformed
  private void DeleteActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_DeleteActionPerformed
     Delete dlt = new Delete();
    dlt.show();
    this.hide();
  }//GEN-LAST:event_DeleteActionPerformed
  private void SearchActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_SearchActionPerformed
    Search sh = new Search();
    sh.show();
    this.hide();
  }//GEN-LAST:event_SearchActionPerformed
```

2. Insert Interface:

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package employee_pay_roll;
import java.awt.Color;
import java.sql.*;
import java.text.SimpleDateFormat;
import javax.swing.JOptionPane;
* @author gokhu
*/
public class Insert extends javax.swing.JFrame {
   * Creates new form Delete
  public Insert() {
    initComponents();
       jLabel9.setVisible(false);
     ename_text.setEnabled(false);
     dob_date.setEnabled(false);
     jRadioButton2.setEnabled(false);
    jRadioButton3.setEnabled(false);
     designation_text.setEnabled(false);
    basic_text.setEnabled(false);
     InsertButton.setEnabled(false);
  }
  String sex = null;
  String date = null;
```

```
String ename = null;
  String designation = null;
  String basic = null;
   * This method is called from within the constructor to initialize the form.
   * WARNING: Do NOT modify this code. The content of this method is always
   * regenerated by the Form Editor.
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
  private void initComponents() {
                         //Content for swing elements palcement
  }// </editor-fold>//GEN-END:initComponents
  private void CancelButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_CancelButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_CancelButtonActionPerformed
  private void eid_textInputMethodTextChanged(java.awt.event.InputMethodEvent evt) {//GEN-
FIRST:event_eid_textInputMethodTextChanged
  }//GEN-LAST:event_eid_textInputMethodTextChanged
  private void eid_textActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_eid_textActionPerformed
  }//GEN-LAST:event_eid_textActionPerformed
  private void BackButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_BackButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_BackButtonActionPerformed
```

```
private void InsertButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_InsertButtonActionPerformed
    ename = ename_text.getText();
    designation = designation_text.getText();
    basic = basic_text.getText();
    if(dob_date.getDate()!= null){
       SimpleDateFormat dd = new SimpleDateFormat("dd");
       SimpleDateFormat mm = new SimpleDateFormat("MM");
       SimpleDateFormat yyyy = new SimpleDateFormat("yyyy");
       String d = dd.format(dob_date.getDate());
       Integer m = Integer.parseInt(mm.format(dob_date.getDate()));
       String y = yyyy.format(dob_date.getDate());
       String month = null;
       switch(m){
         case 1:month="jan";
         break;
         case 2:month="feb";
         break;
         case 3:month="mar";
         break;
         case 4:month="apr";
         break;
         case 5:month="may";
         break;
         case 6:month="jun";
         break;
         case 7:month="july";
         break;
         case 8:month="aug";
         break;
         case 9:month="sep";
         break;
         case 10:month="oct";
         break;
         case 11:month="nov";
         break;
```

```
case 12:month="dec";
         break;
       date=d+"-"+month+"-"+y;
    }
    if(!( ename!=null && date != null && sex != null && designation!=null && basic != null)){
       JOptionPane.showMessageDialog(null,"Please fill all the details");
    }
    else{
       try{Class.forName("oracle.jdbc.OracleDriver");
         Connection con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl", "Employee",
"gokhul");
         String sql="insert into Emp_Payroll(eid,ename,dob,sex,designation,basic) values (?,?,?,?,?)";
         PreparedStatement pst=con1.prepareStatement(sql);
         pst.setInt(1,Integer.parseInt(eid_text.getText()));
         pst.setString(2,ename_text.getText());
         pst.setString(3,date);
         pst.setString(4,sex);
         pst.setString(5,designation_text.getText());
         pst.setInt(6,Integer.parseInt(basic_text.getText()));
         pst.execute();
         CallableStatement cst = con1.prepareCall("{CALL net_pay_calc(?,?)}");
         cst.registerOutParameter(1,Types.INTEGER);
         cst.registerOutParameter(2,Types.INTEGER);
         cst.setInt(1,Integer.parseInt(eid_text.getText()));
         cst.setInt(2,Integer.parseInt(basic_text.getText()));
         cst.execute();
         JOptionPane.showMessageDialog(null,"Inserted");
         cst.close();
         pst.close();
         con1.close();
       }catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
    }
  }//GEN-LAST:event_InsertButtonActionPerformed
```

```
private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jRadioButton2ActionPerformed
    sex="M";
  }//GEN-LAST:event_iRadioButton2ActionPerformed
  private void jRadioButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jRadioButton3ActionPerformed
    sex = "F";
  }//GEN-LAST:event_jRadioButton3ActionPerformed
  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
    int temp=0;
    ename_text.setText("");
    dob_date.setDate(null);
    sex_radio.clearSelection();
    designation_text.setText("");
    basic_text.setText("");
    try{Class.forName("oracle.jdbc.OracleDriver");
       Connection con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl", "Employee",
"gokhul");
       Statement st = con1.createStatement();
       ResultSet rs = st.executeQuery("select * from Emp_Payroll");
       while(rs.next()){
         int no = rs.getInt(1);
         if(no==Integer.parseInt(eid_text.getText())){
            temp+=1;
         }
       rs.close();
       con1.close();
    }catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
    if(temp>=1){}
       jLabel9.setText("*Employee Id Already exists");
       jLabel9.setVisible(true);
       jLabel9.setForeground(Color.red);
       ename_text.setEnabled(false);
```

```
dob_date.setEnabled(false);
    jRadioButton2.setEnabled(false);
    jRadioButton3.setEnabled(false);
    designation_text.setEnabled(false);
    basic_text.setEnabled(false);
    InsertButton.setEnabled(false);
  }
  else{
    jLabel9.setVisible(true);
    jLabel9.setText("*Employee Id Available!!");
    jLabel9.setForeground(Color.decode("#32CD32"));
    ename_text.setEnabled(true);
    dob_date.setEnabled(true);
    jRadioButton2.setEnabled(true);
    jRadioButton3.setEnabled(true);
    designation_text.setEnabled(true);
    basic_text.setEnabled(true);
    InsertButton.setEnabled(true);
  }
}//GEN-LAST:event_jButton1ActionPerformed
```

3. Update Interface:

```
package employee_pay_roll;
import java.awt.Color;
import java.sql.*;
import java.text.SimpleDateFormat;
import javax.swing.JOptionPane;
* @author gokhu
*/
public class Update extends javax.swing.JFrame {
  public Update() {
     initComponents();
    jLabel9.setVisible(false);
     ename_text.setEnabled(false);
     dob_date.setEnabled(false);
     jRadioButton2.setEnabled(false);
     jRadioButton3.setEnabled(false);
     designation_text.setEnabled(false);
     basic_text.setEnabled(false);
     InsertButton.setEnabled(false);
  String sex = null;
  String date = null;
  String ename = null;
  String designation = null;
  int basic = 0;
  Date dob=null;
   * This method is called from within the constructor to initialize the form.
   * WARNING: Do NOT modify this code. The content of this method is always
   * regenerated by the Form Editor.
   */
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
  private void initComponents() {
```

```
//Content for Swing elements placement
  }// </editor-fold>//GEN-END:initComponents
  private void CancelButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_CancelButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_CancelButtonActionPerformed
  private void eid_textInputMethodTextChanged(java.awt.event.InputMethodEvent evt) {//GEN-
FIRST:event_eid_textInputMethodTextChanged
  }//GEN-LAST:event_eid_textInputMethodTextChanged
  private void eid_textActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event eid textActionPerformed
  }//GEN-LAST:event_eid_textActionPerformed
  private void BackButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_BackButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_BackButtonActionPerformed
  private void InsertButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_InsertButtonActionPerformed
    if(dob_date.getDate()!= null){
           SimpleDateFormat dd = new SimpleDateFormat("dd");
    SimpleDateFormat mm = new SimpleDateFormat("MM");
    SimpleDateFormat yyyy = new SimpleDateFormat("yyyy");
    String d = dd.format(dob_date.getDate());
    Integer m = Integer.parseInt(mm.format(dob_date.getDate()));
    String y = yyyy.format(dob_date.getDate());
    String month = null;
    switch(m){
```

```
case 1:month="jan";
                           break;
                           case 2:month="feb";
                           break;
                           case 3:month="mar";
                           break;
                           case 4:month="apr";
                           break;
                           case 5:month="may";
                           break;
                           case 6:month="jun";
                           break;
                           case 7:month="july";
                           break;
                           case 8:month="aug";
                           break;
                           case 9:month="sep";
                           break;
                           case 10:month="oct";
                           break;
                           case 11:month="nov";
                           break;
                           case 12:month="dec";
                           break;
                  date=d+"-"+month+"-"+y;
                  else{
                           date=dob.toString();
                  }
                  if(!(ename!=null && date != null && sex != null && designation!= null && basic!=0)){
                         JOptionPane.showMessageDialog(null,"Please fill all the details");
               }
               else{
                           try{Class.forName("oracle.jdbc.OracleDriver");
                                    Connection\ con1=Driver Manager.get Connection ("jdbc:oracle:thin:@localhost:1521:orcl", "Employee", and the connection of the connectio
"gokhul");
```

```
PreparedStatement pst=con1.prepareStatement(sql);
         pst.setString(1,ename_text.getText());
         pst.setString(2,date);
         pst.setString(3,sex);
         pst.setString(4,designation_text.getText());
         pst.setInt(5,Integer.parseInt(basic_text.getText()));
         pst.setInt(6,Integer.parseInt(eid_text.getText()));
         pst.execute();
         CallableStatement cst = con1.prepareCall("{CALL net_pay_calc(?,?)}");
         cst.registerOutParameter(1,Types.INTEGER);
         cst.registerOutParameter(2,Types.INTEGER);
         cst.setInt(1,Integer.parseInt(eid_text.getText()));
         cst.setInt(2,Integer.parseInt(basic_text.getText()));
         cst.execute();
         JOptionPane.showMessageDialog(null,"Updated");
         cst.close();
         pst.close();
         con1.close();
       }catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
    }
  }//GEN-LAST:event_InsertButtonActionPerformed
  private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jRadioButton2ActionPerformed
    sex="M";
  }//GEN-LAST:event_jRadioButton2ActionPerformed
  private void jRadioButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jRadioButton3ActionPerformed
    sex = "F";
  }//GEN-LAST:event_jRadioButton3ActionPerformed
```

String sql="update Emp_Payroll set ename=?, dob=?, sex=?, designation=?, basic=? where eid=?";

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
     int temp=0;
     ename_text.setText("");
     dob_date.setDate(null);
     sex_radio.clearSelection();
     designation_text.setText("");
     basic_text.setText("");
     try{Class.forName("oracle.jdbc.OracleDriver");
       Connection con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl", "Employee",
"gokhul");
       Statement st = con1.createStatement();
       ResultSet rs = st.executeQuery("select * from Emp_Payroll");
       while(rs.next()){
         int no = rs.getInt(1);
         if(no==Integer.parseInt(eid_text.getText())){
            temp+=1;
         }
       rs.close();
       con1.close();
     }catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
     if(temp>=1){}
       jLabel9.setText("*Employee Id found!!");
       jLabel9.setVisible(true);
       jLabel9.setForeground(Color.decode("#32CD32"));
       ename_text.setEnabled(true);
       dob_date.setEnabled(true);
       jRadioButton2.setEnabled(true);
       jRadioButton3.setEnabled(true);
       designation_text.setEnabled(true);
       basic_text.setEnabled(true);
       InsertButton.setEnabled(true);
       try{Class.forName("oracle.jdbc.OracleDriver");
       Connection con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl", "Employee",
"gokhul");
       Statement st = con1.createStatement();
```

```
ResultSet rs = st.executeQuery("select * from Emp_Payroll where
eid="+Integer.parseInt(eid_text.getText()));
       while(rs.next()){
         ename=rs.getString("ename");
       ename_text.setText(ename);
       if(rs.getString("sex").equals("M")){
         jRadioButton2.setSelected(true);
         sex="M";
       }else{
         jRadioButton3.setSelected(true);
         sex="F";
       designation=rs.getString("designation");
       designation_text.setText(designation);
       basic=rs.getInt("basic");
       basic_text.setText(String.valueOf(basic));
       dob=rs.getDate("dob");
       dob_date.setDate(dob);
       rs.close();
       con1.close();
     }catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
    }
     else{
       jLabel9.setVisible(true);
       jLabel9.setText("*Employee Id not found!!");
       jLabel9.setForeground(Color.red);
       ename_text.setEnabled(false);
       dob_date.setEnabled(false);
       jRadioButton2.setEnabled(false);
       jRadioButton3.setEnabled(false);
       designation_text.setEnabled(false);
       basic_text.setEnabled(false);
       InsertButton.setEnabled(false);
    }
  }//GEN-LAST:event_jButton1ActionPerformed
```

4. Delete Interface:

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package employee_pay_roll;
import java.awt.Color;
import java.sql.*;
import java.text.SimpleDateFormat;
import java.time.LocalDate;
import javax.swing.ButtonGroup;
import javax.swing.JOptionPane;
import org.jdesktop.swingx.JXDatePicker;
* @author gokhu
public class Delete extends javax.swing.JFrame {
   * Creates new form Insert
   */
  public Delete() {
     initComponents();
    jLabel9.setVisible(false);
    InsertButton.setEnabled(false);
  }
  String sex = null;
  String date = null;
  String eid = null;
  String ename = null;
  String designation = null;
```

```
String basic = null;
   * This method is called from within the constructor to initialize the form.
   * WARNING: Do NOT modify this code. The content of this method is always
   * regenerated by the Form Editor.
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
  private void initComponents() {
  //content fro swing elements placement
  }// </editor-fold>//GEN-END:initComponents
  private void BackButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_BackButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_BackButtonActionPerformed
  private void CancelButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_CancelButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_CancelButtonActionPerformed
  private void InsertButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_InsertButtonActionPerformed
    try{Class.forName("oracle.jdbc.OracleDriver");
       Connection con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","Employee",
"gokhul");
       String sql="delete from Emp_Payroll where eid=?";
       PreparedStatement pst=con1.prepareStatement(sql);
       pst.setInt(1,Integer.parseInt(eid_text.getText()));
       pst.execute();
```

```
JOptionPane.showMessageDialog(null,"Deleted");
       pst.close();
       con1.close();
       }catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
       ename_text.setText("");
       designation_text.setText("");
       eid_text.setText("");
  }//GEN-LAST:event_InsertButtonActionPerformed
  private void eid_textActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_eid_textActionPerformed
  }//GEN-LAST:event_eid_textActionPerformed
  private void eid_textInputMethodTextChanged(java.awt.event.InputMethodEvent evt) {//GEN-
FIRST:event_eid_textInputMethodTextChanged
  }//GEN-LAST:event_eid_textInputMethodTextChanged
  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
    int temp=0;
    try{Class.forName("oracle.jdbc.OracleDriver");
       Connection con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","Employee",
"gokhul");
       Statement st = con1.createStatement();
       ResultSet rs = st.executeQuery("select * from Emp_Payroll");
       while(rs.next()){
         int no = rs.getInt(1);
         if(no==Integer.parseInt(eid_text.getText())){
            ename_text.setText(rs.getString("ename"));
            designation_text.setText(rs.getString("designation"));
         }
       rs.close();
       con1.close();
       }catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
```

```
if(temp>=1){
    jLabel9.setText("*Employee Available!!");
    jLabel9.setVisible(true);
    jLabel9.setForeground(Color.decode("#32CD32"));
    InsertButton.setEnabled(true);
    eid=eid_text.getText();

}
else{
    jLabel9.setVisible(true);
    jLabel9.setText("*Employee Id not found!!");
    jLabel9.setForeground(Color.red);
    InsertButton.setEnabled(false);
    ename_text.setText("");
    designation_text.setText("");
}
}//GEN-LAST:event_jButton1ActionPerforme
```

5. Search Interface

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
package employee_pay_roll;
import java.awt.Color;
import java.sql.*;
import java.sql.Date;
import java.text.SimpleDateFormat;
import javax.swing.JOptionPane;
* @author gokhu
*/
public class Search extends javax.swing.JFrame {
  /**
   * Creates new form Search
   */
  public Search() {
     initComponents();
      jLabel9.setVisible(false);
      dob_date.setEnabled(false);
     //InsertButton.setEnabled(false);
  }
  String sex = null;
  String date = null;
  String ename = null;
  String designation = null;
  int basic = 0;
  Date dob=null;
```

```
* This method is called from within the constructor to initialize the form.
   * WARNING: Do NOT modify this code. The content of this method is always
   * regenerated by the Form Editor.
   */
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
  private void initComponents() {
   //content for swing placement
  }// </editor-fold>//GEN-END:initComponents
  private void CancelButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_CancelButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_CancelButtonActionPerformed
  private void eid_textInputMethodTextChanged(java.awt.event.InputMethodEvent evt) {//GEN-
FIRST:event_eid_textInputMethodTextChanged
  }//GEN-LAST:event_eid_textInputMethodTextChanged
  private void eid_textActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_eid_textActionPerformed
  }//GEN-LAST:event_eid_textActionPerformed
  private void BackButtonActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_BackButtonActionPerformed
    Main_Menu mm = new Main_Menu();
    mm.show();
    this.hide();
  }//GEN-LAST:event_BackButtonActionPerformed
  private void jRadioButton2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jRadioButton2ActionPerformed
    sex="M";
```

```
}//GEN-LAST:event_jRadioButton2ActionPerformed
  private void jRadioButton3ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jRadioButton3ActionPerformed
     sex = "F":
  }//GEN-LAST:event_iRadioButton3ActionPerformed
  private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_jButton1ActionPerformed
     int temp=0;
     ename_text.setText("");
     dob_date.setDate(null);
     sex_radio.clearSelection();
     designation_text.setText("");
     basic_text.setText("");
     da_text.setText("");
     hra_text.setText("");
     pf_text.setText("");
     mc_text.setText("");
     gross_text.setText("");
     tot_deduc_text.setText("");
     net_pay_text.setText("");
     sex_radio.clearSelection();
     dob_date.setEnabled(false);
     try{Class.forName("oracle.jdbc.OracleDriver");
       Connection con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","Employee",
"gokhul");
       Statement st = con1.createStatement();
       ResultSet rs = st.executeQuery("select * from Emp_Payroll");
       while(rs.next()){
         int no = rs.getInt(1);
         if(no==Integer.parseInt(eid_text.getText())){
            temp+=1;
         }
       }
       rs.close();
       con1.close();
     }catch(Exception e) {JOptionPane.showMessageDialog(null, "Error="+e);}
```

```
if(temp>=1){}
       jLabel9.setText("*Employee Id found!!");
       jLabel9.setVisible(true);
       jLabel9.setForeground(Color.decode("#32CD32"));
       //InsertButton.setEnabled(true);
       try{Class.forName("oracle.jdbc.OracleDriver");
          Connection
con1=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","Employee", "gokhul");
          Statement st = con1.createStatement();
          ResultSet rs = st.executeQuery("select * from Emp_Payroll where
eid="+Integer.parseInt(eid_text.getText()));
          while(rs.next()){
            ename=rs.getString("ename");
            ename_text.setText(ename);
            if(rs.getString("sex").equals("M")){
               jRadioButton2.setSelected(true);
               sex="M";
            }else{
               jRadioButton3.setSelected(true);
               sex="F";
            designation=rs.getString("designation");
            designation_text.setText(designation);
            basic=rs.getInt("basic");
            basic_text.setText(String.valueOf(basic));
            dob=rs.getDate("dob");
            dob_date.setEnabled(true);
            dob_date.setDate(dob);
            da_text.setText(String.valueOf(rs.getInt("da")));
            hra_text.setText(String.valueOf(rs.getInt("hra")));
            pf_text.setText(String.valueOf(rs.getInt("pf")));
            mc_text.setText(String.valueOf(rs.getInt("mc")));
            gross_text.setText(String.valueOf(rs.getInt("gross")));
            tot_deduc_text.setText(String.valueOf(rs.getInt("tot_deduc")));
            net_pay_text.setText(String.valueOf(rs.getInt("net_pay")));
          rs.close();
```

```
con1.close();
}catch(Exception e) {JOptionPane.showMessageDialog(null,"Error="+e);}
}
else{
    jLabel9.setVisible(true);
    jLabel9.setText("*Employee Id not found!!");
    jLabel9.setForeground(Color.red);

//InsertButton.setEnabled(false);
}
//GEN-LAST:event_jButton1ActionPerformed
```