Dept :

package lab9;

import java.awt.BorderLayout;

import java.awt.EventQueue;

import javax.swing.JFrame;

import javax.swing.JPanel;

import javax.swing.border.EmptyBorder;

import javax.swing.JTextField;

import java.awt.Color;

import java.awt.SystemColor;

import javax.swing.SwingConstants;

import javax.swing.JLabel;

import java.awt.Font;

import javax.swing.JButton;

import java.awt.event.ActionListener;

import java.sql.SQLException;

import java.awt.event.ActionEvent;

public class dept extends JFrame {

private JPanel contentPane;

private JTextField textField;

private JTextField textField\_1;

private JTextField textField\_2;

/\*\*

\* Launch the application.

\*/

public static void main(String[] args) {

EventQueue.invokeLater(new Runnable() {

public void run() {

try {

dept frame = new dept();

frame.setVisible(true);

} catch (Exception e) {

e.printStackTrace();

}

}

});

}

/\*\*

\* Create the frame.

\*/

public dept() {

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

setBounds(100, 100, 450, 300);

contentPane = new JPanel();

contentPane.setBackground(Color.LIGHT\_GRAY);

contentPane.setBorder(null);

setContentPane(contentPane);

contentPane.setLayout(null);

JLabel lblDeptno = new JLabel("Deptno");

lblDeptno.setFont(new Font("Tahoma", Font.PLAIN, 17));

lblDeptno.setBounds(44, 49, 156, 14);

contentPane.add(lblDeptno);

textField = new JTextField();

textField.setBounds(239, 49, 86, 20);

contentPane.add(textField);

textField.setColumns(10);

JLabel lblNewLabel = new JLabel("Name");

lblNewLabel.setFont(new Font("Tahoma", Font.PLAIN, 17));

lblNewLabel.setBounds(92, 85, 46, 14);

contentPane.add(lblNewLabel);

textField\_1 = new JTextField();

textField\_1.setBounds(239, 85, 86, 20);

contentPane.add(textField\_1);

textField\_1.setColumns(10);

JLabel lblNewLabel\_1 = new JLabel("Location");

lblNewLabel\_1.setFont(new Font("Tahoma", Font.PLAIN, 17));

lblNewLabel\_1.setBounds(92, 133, 96, 14);

contentPane.add(lblNewLabel\_1);

textField\_2 = new JTextField();

textField\_2.setBounds(239, 133, 86, 20);

contentPane.add(textField\_2);

textField\_2.setColumns(10);

JButton btnEnter = new JButton("Enter");

btnEnter.setForeground(SystemColor.activeCaptionBorder);

btnEnter.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

int number = Integer.parseInt(textField.getText());

String name = textField\_1.getText();

String location = textField\_2.getText();

try {

Dbase newBD = new Dbase();

newBD.insertToDept(number, name, location);

newBD.close();

} catch (SQLException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

}

});

btnEnter.setBackground(Color.BLACK);

btnEnter.setBounds(92, 196, 89, 23);

contentPane.add(btnEnter);

JButton btnExit = new JButton("Exit");

btnExit.addActionListener(**new** ActionListener() {

**public** **void** actionPerformed(ActionEvent e) {

dispose();

}

});

btnExit.setBounds(236, 196, 89, 23);

contentPane.add(btnExit);

}

}

Dept2:

package lab9;

import java.awt.BorderLayout;

import java.awt.EventQueue;

import javax.swing.JFrame;

import javax.swing.JPanel;

import javax.swing.border.EmptyBorder;

import javax.swing.JLabel;

import javax.swing.JTextField;

import javax.swing.JButton;

import java.awt.event.ActionListener;

import java.sql.SQLException;

import java.awt.event.ActionEvent;

public class dept2 extends JFrame {

private JPanel contentPane;

private JTextField textField;

private JTextField textField\_1;

private JTextField textField\_2;

/\*\*

\* Launch the application.

\*/

public static void main(String[] args) {

EventQueue.invokeLater(new Runnable() {

public void run() {

try {

dept2 frame = new dept2();

frame.setVisible(true);

} catch (Exception e) {

e.printStackTrace();

}

}

});

}

/\*\*

\* Create the frame.

\*/

public dept2() {

setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

setBounds(100, 100, 450, 300);

contentPane = new JPanel();

contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));

contentPane.setLayout(new BorderLayout(0, 0));

setContentPane(contentPane);

JPanel panel = new JPanel();

contentPane.add(panel, BorderLayout.CENTER);

panel.setLayout(null);

JLabel lblDeptno = new JLabel("Deptno");

lblDeptno.setBounds(95, 55, 46, 14);

panel.add(lblDeptno);

textField = new JTextField();

textField.setBounds(158, 52, 86, 20);

panel.add(textField);

textField.setColumns(10);

JLabel lblName = new JLabel("Name");

lblName.setBounds(95, 99, 46, 14);

panel.add(lblName);

textField\_1 = new JTextField();

textField\_1.setEditable(false);

textField\_1.setEnabled(false);

textField\_1.setBounds(158, 96, 86, 20);

panel.add(textField\_1);

textField\_1.setColumns(10);

JLabel lblLocation = new JLabel("Location");

lblLocation.setBounds(95, 147, 46, 14);

panel.add(lblLocation);

textField\_2 = new JTextField();

textField\_2.setEditable(false);

textField\_2.setEnabled(false);

textField\_2.setBounds(158, 144, 86, 20);

panel.add(textField\_2);

textField\_2.setColumns(10);

JButton btnSearch = new JButton("Search");

btnSearch.addActionListener(new ActionListener() {

public void actionPerformed(ActionEvent e) {

try {

Dbase dept = new Dbase();

int num = Integer.parseInt(textField.getText());

String []ar=dept.getDeptData(num);

textField\_1.setText(ar[0]);

textField\_2.setText(ar[1]);

} catch (SQLException e1) {

// TODO Auto-generated catch block

e1.printStackTrace();

}

}

});

btnSearch.setBounds(296, 95, 89, 23);

panel.add(btnSearch);

}

}

DB:

**package** lab9;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.ResultSet;

**import** java.sql.SQLException;

**import** java.sql.Statement;

**public** **class** Dbase {

Statement stmt;

Connection conn;

**public** Dbase() **throws** SQLException{

conn = DriverManager.*getConnection*("jdbc:oracle:thin:@ coestudb.qu.edu.qa:1521/STUD.qu.edu.qa","za1508345", "za1508345");

stmt = conn.createStatement();

}

**public** **void** insertToDept(**int** n,String name,String location) **throws** SQLException{

String sql=" insert into dept (deptno,dname,loc)"+"values ("+n+",'"+name+"','"+location+"')";

stmt.executeUpdate(sql);

System.***out***.println("dept inserted");

}

**public** String[] getDeptData(**int** deptno) **throws** SQLException{

String []arr = **new** String[2];

ResultSet rs = stmt.executeQuery("select dname,loc from dept where deptno = "+deptno);

**while**(rs.next()){

String name = rs.getString(1);

String loc = rs.getString(2);

arr[0] = name;

arr[1] = loc;

}

**return** arr;

}

**public** **void** close() **throws** SQLException{

stmt.close();

conn.close();

}

}

Test:

**package** lab9;

**import** java.sql.\*;

**public** **class** Test {

**public** **static** **void** main(String args[]) **throws** SQLException {

Connection conn = DriverManager.*getConnection*("jdbc:oracle:thin:@ coestudb.qu.edu.qa:1521/STUD.qu.edu.qa","za1508345", "za1508345");

Statement stmt = conn.createStatement();

ResultSet rs = stmt.executeQuery("select deptno, dname, loc from dept");

**while** (rs.next()) {

**int** deptno = rs.getInt(1);

String dname = rs.getString(2);

String location = rs.getString(3);

System.***out***.println(deptno + " " + dname + " " + location);

}

rs.close();

String sql=" insert into emp (empno,ename,sal,deptno)"

+"values (333,'Khaled',4000,10)";

stmt.executeUpdate(sql);

String sql1=" update emp set sal=9000"+" where empno=333";

**int** affectedRows =stmt.executeUpdate(sql);

System.***out***.println("Number of updated records "+affectedRows);

String sql2 ="delete from emp where empno=333";

**int** affectedRows1 = stmt.executeUpdate(sql2);

System.***out***.println("number of updated records"+affectedRows1);

conn.close();

}

}