**A rough Employee Management Project using Oracle 11g and jdbc**

1. First we create two tables

create table Employees(

empNo number(6),

name varchar(20),

dept varchar(10),

sal number(8),

primary key (empNo)

);

create table EmployeeDetails(

empNo number(6) references Employees(empNo),

address varchar(30),

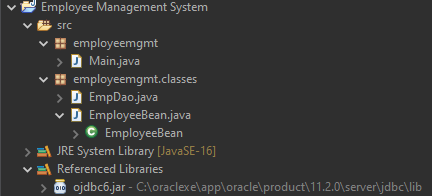
phoneno varchar(11),

emailid varchar(20)

);

1. Structure procedures for inserting values to the tables

create or replace procedure "SET\_EMP"  
(empno\_ IN OUT NUMBER,  
name\_ IN OUT VARCHAR2,  
dept\_ IN OUT VARCHAR2,  
sal\_ IN OUT NUMBER,  
address\_ IN OUT VARCHAR2,  
phoneno\_ IN OUT VARCHAR2,  
emailid\_ IN OUT VARCHAR2)  
is  
begin  
 INSERT ALL  
    into Employees (empno, name, dept, sal) values (empno\_, name\_, dept\_, sal\_)  
    into EmployeeDetails (empno, address, phoneno, emailid) values (empno\_, address\_, phoneno\_, emailid\_)  
 SELECT \* from dual;  
end;​



1. The Class with all database connectivity and useful methods

package employeemgmt.classes;

import java.sql.\*;

public class EmpDao {

EmployeeBean eb; String c = new String(); double d;

public EmpDao(EmployeeBean eb) {

this.eb = eb;

}

public void saveEmp(){

try {

String url="jdbc:oracle:thin:password/TARPAN@localhost:1521:XE";

String u = "TARPAN";

String p = "password";

String driver="oracle.jdbc.OracleDriver";

Class.*forName*(driver);

Connection con=DriverManager.*getConnection*(url,u,p);

CallableStatement st = con.prepareCall("{call set\_emp(?, ?, ?, ?, ?, ?, ?)}");

st.setInt(1,this.eb.getEmpNo());

st.setString(2,this.eb.getName());

st.setString(3, this.eb.getDept());

st.setDouble(4, this.eb.getSal());

st.setString(5, this.eb.getAdd());

st.setString(6, this.eb.getPhoneNo());

st.setString(7, this.eb.getEmailId());

st.executeQuery();

st.close();

con.close();

}catch(Exception e) {

e.printStackTrace();

}

}

public void displayAll(){

try {

System.***out***.println("---Display the employee database---");

String url="jdbc:oracle:thin:password/TARPAN@127.0.0.1:1521:XE";

String uname = "TARPAN";

String pass = "password";

String query = "select \* from Employees inner join EmployeeDetails on Employees.empNo = EmployeeDetails.empNo";

Class.*forName*("oracle.jdbc.OracleDriver");

Connection con = DriverManager.*getConnection*(url,uname,pass);

if(con==null) {

System.***out***.println("Connection failed!");

}else {

System.***out***.println("Connection successful!");

}

Statement st = con.createStatement();

ResultSet rs = st.executeQuery(query);

int c1; double c4;

String c2,c3,c5,c6,c7,c8;

while(rs.next()){

c1 = rs.getInt(1);

c2 = rs.getString(2);

c = c3 = rs.getString(3);

d = c4 = rs.getDouble(4);

c5 = rs.getString(5);

c6 = rs.getString(6);

c7 = rs.getString(7);

c8 = rs.getString(8);

System.***out***.println("'"+c1+"' '"+ c2 +"' '"+ c3+"' '" + c4 +"' '"+ c5+"' '" + c6 +"' '"+ c7+"' '"+c8+"'");

System.***out***.println("Estimated salary with bonuses: "+ calSal());

}

st.close();

con.close();

}catch(Exception e) {

e.printStackTrace();

}

}

public double calSal(){

//System.out.println(n+" "+salary);

if(c.equalsIgnoreCase("cse"))

d+= 5000;

return d;

}

}

1. The Class for initializing variables

package employeemgmt.classes;

public class EmployeeBean{

private int empNo;

private String name;

private String dept;

private double sal;

private String add;

private String phoneNo;

private String emailId;

public void setEmpNo(int empNo) {

this.empNo = empNo;

}

public void setName(String name) {

this.name = name;

}

public void setDept(String dept) {

this.dept = dept;

}

public void setSal(double sal) {

this.sal = sal;

}

public void setAdd(String add) {

this.add = add;

}

public void setPhoneNo(String phoneNo) {

this.phoneNo = phoneNo;

}

public void setEmailId(String emailId) {

this.emailId = emailId;

}

public int getEmpNo() {

return empNo;

}

public String getName() {

return name;

}

public String getDept() {

return dept;

}

public double getSal() {

return sal;

}

public String getAdd() {

return add;

}

public String getPhoneNo() {

return phoneNo;

}

public String getEmailId() {

return emailId;

}

}

1. The main Class

package employeemgmt;

import java.util.Scanner;

import employeemgmt.classes.\*;

public class Main {

public static void main(String[] args) {

EmployeeBean eb = new EmployeeBean();

Scanner num = new Scanner(System.in);

Scanner alpha = new Scanner(System.in);

System.out.println("Enter the option: \n1. Insert data\n2. Display data\n3. Exit");

int choice = num.nextInt();

switch(choice) {

case 1:

System.out.print("Enter the Employee Id:");

int empId = num.nextInt();

eb.setEmpNo(empId);

System.out.print("Enter the Employee Name:");

String name = alpha.nextLine();

eb.setName(name);

System.out.print("Enter the Employee Dpartment:");

String dept = alpha.nextLine();

eb.setDept(dept);

System.out.print("Enter the Employee Salary:");

double sal = num.nextDouble();

eb.setSal(sal);

System.out.print("Enter the Employee Address:");

String add = alpha.nextLine();

eb.setAdd(add);

System.out.print("Enter the Employee Phone no.:");

String phoneNo = alpha.nextLine();

eb.setPhoneNo(phoneNo);

System.out.print("Enter the Employee EmailId:");

String emailId = alpha.nextLine();

eb.setEmailId(emailId);

EmpDao edao = new EmpDao(eb);

edao.saveEmp();

break;

case 2:

EmpDao edao1 = new EmpDao(eb);

edao1.displayAll();

edao1.calSal();

break;

default:

System.out.println("\_\_\_EXIT PORTAL\_\_\_");

}

num.close();

alpha.close();

}

}

Output:

