Bachashankar

Program Name: - HQL-App

Name: Madhura Itke

```
package com.app.bean;
import javax.persistence.Entity;
import javax.persistence.ld;
import javax.persistence.Table;
@Entity
@Table(name = "employee_hql")
public class Employee {
        @ld
       private int empld;
       private String empName;
       private String empAddress;
       private double empSal;
       public int getEmpId() {
               return empld;
       }
       public void setEmpId(int empId) {
               this.empld = empld;
       }
       public String getEmpName() {
               return empName;
       }
       public void setEmpName(String empName) {
               this.empName = empName;
       }
       public String getEmpAddress() {
               return empAddress;
       }
       public void setEmpAddress(String empAddress) {
```

this.empAddress = empAddress;

```
}
       public double getEmpSal() {
               return empSal;
       }
       public void setEmpSal(double empSal) {
               this.empSal = empSal;
       }
       public Employee(int empId, String empName, String empAddress, double empSal) {
               super();
               this.empld = empld;
               this.empName = empName;
               this.empAddress = empAddress;
               this.empSal = empSal;
       }
       public Employee() {
               super();
              // TODO Auto-generated constructor stub
       }
package com.app.factory;
import com.app.dao.EmployeeDao;
import com.app.dao.impl.EmployeeDaoImpl;
public class EmployeeFactory {
       public static EmployeeDao getEmployeeDao() {
               return new EmployeeDaoImpl();
       }
package com.app.dao;
import java.util.List;
```

```
import com.app.bean.Employee;
public interface EmployeeDao {
       int updateData(Employee emp);
       int insertData(Employee emp);
       int deleteData(int id);
       List<Employee> listEmployee();
       List<Employee> getEmployee(int id);
package com.app.dao.impl;
import java.util.List;
import org.hibernate.Session;
import org.hibernate.Transaction;
import org.hibernate.query.Query;
import com.app.bean.Employee;
import com.app.dao.EmployeeDao;
import com.app.utility.EmployeeUtil;
public class EmployeeDaoImpl implements EmployeeDao{
       public int updateData(Employee emp) {
               // TODO Auto-generated method stub
               Session session=EmployeeUtil.getSession();
               Transaction tx=null;
               try {
                      tx=session.beginTransaction();
                      Query<Employee>query=session.createQuery("update Employee set
empAddress=""+emp.getEmpAddress()+"" where empId="+emp.getEmpId());
                      session.update(emp);
```

```
tx.commit();
                        EmployeeUtil.closeSession();
                        return 1;
                } catch (Exception e) {
                        // TODO: handle exception
                        e.printStackTrace();
                        tx.rollback();
                        return 0;
                }
        }
        public int insertData(Employee emp) {
                // TODO Auto-generated method stub
Session session=EmployeeUtil.getSession();
Transaction tx=null;
try {
        tx=session.beginTransaction();
        session.persist(emp);
        tx.commit();
        EmployeeUtil.closeSession();
        return 1;
} catch (Exception e) {
        // TODO: handle exception
        e.printStackTrace();
        tx.rollback();
        return 0;
}
        }
        public int deleteData(int id) {
```

```
// TODO Auto-generated method stub
               Session session=EmployeeUtil.getSession();
               Transaction tx=null;
               try {
                       tx=session.beginTransaction();
String hql="delete from Employee where empld ="+id;
               Query<Employee>query=session.createQuery(hql);
               int row=query.executeUpdate();
               tx.commit();
               EmployeeUtil.closeSession();
               return row;
               } catch (Exception e) {
                       // TODO: handle exception
                       e.printStackTrace();
                       tx.rollback();
                       return 0;
               }
       }
       public List<Employee> listEmployee() {
               // TODO Auto-generated method stub
               Session session=EmployeeUtil.getSession();
               Transaction tx=null;
               String hql="From Employee";
               Query<Employee>query=session.createQuery(hql);
               List<Employee> list=query.list();
               EmployeeUtil.closeSession();
               return list;
       }
       public List<Employee> getEmployee(int id) {
               // TODO Auto-generated method stub
```

```
// TODO Auto-generated method stub
                Session session=EmployeeUtil.getSession();
                Transaction tx=null;
                String hql="From Employee Where empld ="+id;
                Query<Employee>query=session.createQuery(hql);
                //query.setParameter(1, id);
                List<Employee> list=query.list();
                EmployeeUtil.closeSession();
                return list;
       }
package com.app.utility;
import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;
public class EmployeeUtil {
        private static SessionFactory factory;
        static {
                try {
                        factory = new
Configuration().configure("com/app/config/employee.cfg.xml").buildSessionFactory();
                } catch (Exception e) {
                        e.printStackTrace();
                }
       }
        static ThreadLocal<Session> local=new ThreadLocal();
        static Session session=null;
        public static Session getSession() {
                try {
```

```
if(local.get()==null) {
                                session=factory.openSession();
                                local.set(session);
                                return session;
                        }else {
                                return local.get();
                        }
                } catch (Exception e) {
                        // TODO: handle exception
                        return null;
                }
        }
        public static void closeSession() {
                try {
                        session.close();
                } catch (Exception e) {
                        // TODO: handle exception
                        e.printStackTrace();
                }
        }
package com.app.test;
import java.util.List;
import java.util.Scanner;
import com.app.bean.Employee;
import com.app.dao.EmployeeDao;
import com.app.factory.EmployeeFactory;
public class Client {
        public static void main(String[] args) {
                // TODO Auto-generated method stub
```

```
EmployeeDao empDao=EmployeeFactory.getEmployeeDao();
Scanner sn =new Scanner(System.in);
int choice;
String conti;
do {
       System.out.println("!------HQL Operation-----!");
       System.out.println("1. insert data");
       System.out.println("2. update data");
       System.out.println("3. delete data");
       System.out.println("4. Get All data");
        System.out.println("5. get Single data");
        System.out.println("!-----End -----!");
       System.out.println("Enter you choice:");
        choice=sn.nextInt();
       switch (choice) {
       case 1:
               System.out.println("Enter your id:");
               int id=sn.nextInt();
               System.out.println("Enter your name:");
               String name=sn.next();
               System.out.println("Enter your Address:");
               String address=sn.next();
               System.out.println("Enter your Salary:");
               double sal=sn.nextDouble();
               Employee emp=new Employee(id, name, address, sal);
               int i=empDao.insertData(emp);
               if(i==1)
               {
                       System.out.println("Data inserted successfully.");
               }else {
                       System.out.println("Data Not Inserted something went wrong..!");
               }
               break;
```

```
case 2:
       System.out.println("Enter your id:");
       int id2=sn.nextInt();
       System.out.println("Enter your name:");
       String name1=sn.next();
       System.out.println("Enter your Address:");
       String address1=sn.next();
       System.out.println("Enter your Salary:");
       double sal1=sn.nextDouble();
       Employee emp5=new Employee(id2, name1, address1, sal1);
       int i2=empDao.updateData(emp5);
       if(i2==1)
       {
                System.out.println("Data update successfully.");
       }else {
                System.out.println("Data Not Inserted something went wrong..!");
       }
       break;
case 3:
       System.out.println("Enter your id:");
       int id1=sn.nextInt();
       int row=empDao.deleteData(id1);
       if(row==1)
       {
                System.out.println("Data deleted successfully.");
       }else {
                System.out.println("Data Not Inserted something went wrong..!");
       }
       break;
case 4:
```

```
List<Employee> list=empDao.listEmployee();
       if(list!=null)
       {
               for(Employee e:list) {
                       System.out.println(e.getEmpId()+"\t"+e.getEmpName()+"\t"
               +e.getEmpAddress()+"\t"+e.getEmpSal());
       }else {
               System.out.println("something went wrong..!");
       }
       break;
case 5:
       System.out.println("Enter your id:");
       int empId=sn.nextInt();
       List<Employee> emp1=empDao.getEmployee(empId);
       if(emp1!=null)
       {
               for(Employee e:emp1) {
                       System.out.println(e.getEmpId()+"\t"+e.getEmpName()+"\t"
               +e.getEmpAddress()+"\t"+e.getEmpSal());
               }
       }else {
               System.out.println("Data Not Inserted something went wrong..!");
       }
       break;
default:
       break;
}
System.out.println("do you want to continue...!");
conti=sn.next();
```

```
}while(conti.equalsIgnoreCase("y"));
```

}

Output

