## Name: - Abhijeet B. Pasare

**Program Name: - HQL-App** 

```
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 empld, 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();
       }
}
```

```
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(empld);
                                if(emp1!=null)
                                {
                                                                 for(Employee e:emp1) {
                                                                                                   System.out.println(e.getEmpId()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+e.getEmpName()+"\t"+e.getEmpName()+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\t"+e.getEmpName()+"\
                                                                 +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**

}

}

