

Hibernate_Hql_Program

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

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}
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.empId = empId;
this.empName = empName;
this.empAddress = empAddress;
this.empSal = empSal;
}
public Employee() {
super();
// TODO Auto-generated constructor stub
}
}

```

2)EmployeeFactory.class

```

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();
}
}

```

```

Packagecom.app.da
o; 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()
n();
Query<Employee>query=session.createQuery("update Employee set
empAddress='"+emp.getEmpAddress()+"' where empId='"+emp.getEmpId());
session.update(emp);

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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(hq
l); int row=query.executeUpdate();
tx.commit();
EmployeeUtil.closeSessio
n(); 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 empId
="+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

```

Client (3) [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (07-Feb-2022, 10:49:17 pm)
[-----HQL Operation-----]
1. insert data
2. update data
3. delete data
4. Get All data
5. get Single data
|-----End-----|
Enter you choice:
4
Feb 07, 2022 10:49:22 PM org.hibernate.Version logVersion
INFO: HHH000412: Hibernate ORM core version 6.0.0.Alpha7
Feb 07, 2022 10:49:24 PM org.hibernate.annotations.common.reflection.java.JavaReflectionManager <clinit>
INFO: HCNW0000001: Hibernate Commons Annotations {5.1.2.Final}
Feb 07, 2022 10:49:24 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl configure
WARN: HHH10001002: Using built-in connection pool (not intended for production use)
Loading class 'com.mysql.jdbc.Driver'. This is deprecated. The new driver class is 'com.mysql.cj.jdbc.Driver'. The driver is automatically registered via the SPI and manual loading of th
Feb 07, 2022 10:49:24 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001005: Loaded JDBC driver class: com.mysql.jdbc.Driver
Feb 07, 2022 10:49:24 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001012: Connecting with JDBC URL [jdbc:mysql://localhost:3306/hbm2]
Feb 07, 2022 10:49:24 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001001: Connection properties: {password=****, user=root}
Feb 07, 2022 10:49:24 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl buildCreator
INFO: HHH10001003: Autocommit mode: false
Feb 07, 2022 10:49:24 PM org.hibernate.engine.jdbc.connections.internal.DriverManagerConnectionProviderImpl$PooledConnections <init>
INFO: HHH10001115: Connection pool size: 20 (min=1)
Feb 07, 2022 10:49:25 PM org.hibernate.engine.jdbc.dialect.internal.DialectFactoryImpl logSelectedDialect
INFO: HHH000400: Using dialect: org.hibernate.dialect.MySQLDialect
Feb 07, 2022 10:49:27 PM org.hibernate.resource.transaction.backend.jdbc.internal.OptimisticTransactionIsolationNonJtaImpl getIsolatedConnection
INFO: HHH10001501: Connection obtained from JdbcConnectionAccess [org.hibernate.engine.jdbc.env.internal.JdbcEnvironmentInitiator$ConnectionProviderJdbcConnectionAccess@50f097b5] for (nc
Feb 07, 2022 10:49:27 PM org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformInitiator initiateService
INFO: HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
1002 kirti mumbai 3000.0
1003 swati pune 1000.0
1005 akanksha kolhapur 2000.0
do you want to continue...!

```