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```
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.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 hgl="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 hgl="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.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.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"));
      }
}
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC</p>
       "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
       "http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">
<hibernate-configuration>
       <session-factory>
              property name="hibernate.dialect">
                    org.hibernate.dialect.MySQLDialect
              property name="hbm2ddl.auto">
                    update</property>
              property name="hibernate.connection.driver_class">
                    com.mysql.jdbc.Driver
              property name="hibernate.connection.url">
                    jdbc:mysql://localhost:3306/hbm2
              property name="hibernate.connection.username">
                    root
              </property>
              property name="hibernate.connection.password">
              </property>
              <mapping class="com.app.bean.Employee" />
```

</session-factory> </hibernate-configuration>

Output:

