HQL JOIN Example

child class:

```
package com.app.model;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="addrtab")
public class Address {
    @Id
    @Column(name="aid")
    private int addrId;
    @Column(name="loc")
    private String location;
    @Column(name="pin")
    private String pinCode;


    public Address() {
        super();
    }


    public Address(int addrId, String location, String pinCode) {
        super();
        this.addrId = addrId;
        this.location = location;
        this.pinCode = pinCode;
    }


    public int getAddrId() {
        return addrId;
    }
    public void setAddrId(int addrId) {
        this.addrId = addrId;
    }
    public String getLocation() {
        return location;
    }
    public void setLocation(String location) {
        this.location = location;
    }
    public String getPinCode() {
        return pinCode;
    }
    public void setPinCode(String pinCode) {
        this.pinCode = pinCode;
    }
    @Override
    public String toString() {
        return "Address [addrId=" + addrId + ", location=" +
location + ", pinCode=" + pinCode + "]";
    }


}
```

Parent class:

```
package com.app.model;

import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.JoinColumn;
import javax.persistence.ManyToOne;
import javax.persistence.Table;

@Entity
@Table(name="emptab")
public class Employee {
    @Id
    @Column(name="eid")
    private int empId;
    @Column(name="ename")
    private String empName;
    @Column(name="esal")
    private double empSal;

    @ManyToOne
    @JoinColumn(name="aidFk")
    private Address addr;
    public Employee() {
        super();
    }

    public Employee(int empId, String empName, double empSal, Address
addr) {
        super();
        this.empId = empId;
        this.empName = empName;
        this.empSal = empSal;
        this.addr = addr;
    }




    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 double getEmpSal() {
        return empSal;
    }

    public void setEmpSal(double empSal) {
        this.empSal = empSal;
    }

    public Address getAddr() {
        return addr;
    }
```

```
	public void setAddr(Address addr) {
		this.addr = addr;
	}

	@Override
	public String toString() {
		return "Employee [empId=" + empId + ", empName=" + empName + 
", empSal=" + empSal + ", addr=" + addr + "]";
	}



}
```

hibernate.cfg.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-configuration PUBLIC
	"-//Hibernate/Hibernate Configuration DTD 3.0//EN"
	"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>
	<session-factory>
		<property 
name="hibernate.connection.driver_class">oracle.jdbc.driver.OracleDriv
er</property>
		<property 
name="hibernate.connection.url">jdbc:oracle:thin:@localhost:1522:ORCL<
/property>
		<property 
name="hibernate.connection.username">system</property>
		<property 
name="hibernate.connection.password">admin</property>

		<property 
name="hibernate.dialect">org.hibernate.dialect.Oracle10gDialect</prope
rty>
		<property name="hibernate.show_sql">true</property>
		<property name="hibernate.format_sql">true</property>
		<!-- <property 
name="hibernate.hbm2ddl.auto">create</property> -->


		<mapping class="com.app.model.Address"/>
```

```
          <mapping class="com.app.model.Employee"/>


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

HibernateUtil.java

```
package com.app.util;

import org.hibernate.SessionFactory;
import org.hibernate.cfg.Configuration;

public class HibernateUtil {

     private static SessionFactory sf=null;

     static {
          sf=new Configuration().configure().buildSessionFactory();
     }

     public static SessionFactory getSf() {
          return sf;
     }



}
```

Test.java

```
package com.app.test;

import java.util.List;

import org.hibernate.Session;
import org.hibernate.Transaction;
import org.hibernate.query.Query;

import com.app.model.Address;
import com.app.model.Employee;
import com.app.util.HibernateUtil;

public class Test {

    public static void main(String[] args) {

        try(Session ses=HibernateUtil.getSf().openSession()){
            String hql=
                       " select  e.empName,a.location  " +
                       " from com.app.model.Employee e " +
                       "   full outer join               " +
                       "  e.addr  as  a";
            Query q=ses.createQuery(hql);
            List<Object[]> data= q.list();
            for(Object[] d:data) {
                System.out.println(d[0]+","+d[1]);
            }


        }catch (Exception e) {
            e.printStackTrace();
        }


    }

    public static void main1(String[] args) {
        Transaction tx=null;
        try(Session ses=HibernateUtil.getSf().openSession()){
            tx=ses.beginTransaction();
            Address a1=new Address(101,"HYD","500");
            Address a2=new Address(102,"BAN","600");
            Address a3=new Address(103,"CHN","700");
            Address a4=new Address(104,"DHL","800");

            Employee e1=new Employee(10, "A", 1.1, null);
            Employee e2=new Employee(11, "B", 2.2, a2);
            Employee e3=new Employee(12, "C", 3.3, null);


            ses.save(a1);
            ses.save(a2);
            ses.save(a3);
            ses.save(a4);

            ses.save(e1);
```

```
                        ses.save(e2);
                        ses.save(e3);

                        tx.commit();

                }catch (Exception e) {
                        tx.rollback();
                        e.printStackTrace();
                }

        }

}
```