

How To Join Unrelated Entities

JPA and Hibernate older than 5.1

JPA and Hibernate versions older than 5.1 require a defined relationship to join two entities in a JPQL query. But you can reference both entities in the FROM part of the query to create a cartesian product and reduce it in the WHERE part.

```
em.createQuery(  
    "SELECT p.firstName, p.lastName, n.phoneNumber " +  
    "FROM Person p, PhoneBookEntry n " +  
    "WHERE p.firstName = n.firstName "+  
        "AND p.lastName = n.lastName"  
);
```

Hibernate 5.1

Hibernate 5.1 introduced explicit joins on unrelated.

```
em.createQuery(  
    "SELECT p.firstName, p.lastName, n.phoneNumber " +  
    "FROM Person p " +  
        "JOIN PhoneBookEntry n " +  
            "ON p.firstName = n.firstName " +  
            "AND p.lastName = n.lastName"  
);
```