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1. Person.java
@Entity
@Setter
@Getter
@AllArgsConstructor
@Table(name = "OTM_PERSON")
@RequiredArgsConstructor
public class Person {
      @Id
      @GeneratedValue(strategy = GenerationType.IDENTITY)
      private Integer pid;
      @NonNull
      private String pname;
      @NonNull
      private String paddress;
      @OneToMany(targetEntity = PhoneNumber.class, cascade = CascadeType.ALL)
      @JoinColumn(name = "PERSON_ID", referencedColumnName = "pid")
      private Set<PhoneNumber> contactDetails;
      Person() {
            System.out.println("Person 0 param constructor :: " + this.getClass());
      }
      @Override
      public String toString() {
            return "Person [pid=" + pid + ", pname=" + pname + ", paddress=" +
paddress + "]";
      }
}
2. PhoneNumber.java
@Entity
@Setter
@Getter
@AllArgsConstructor
@Table(name = "OTM_PHONE_NUMBER")
@RequiredArgsConstructor
public class PhoneNumber {
      @Id
      @GeneratedValue(strategy = GenerationType.IDENTITY)
      private Long regNo;
      @NonNull
      private Long phoneNo;
      @NonNull
      private String provider;
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@NonNull
     private String type;
     @ManyToOne(targetEntity = Person.class, cascade = CascadeType.ALL)
     @JoinColumn(name = "PERSON ID", referencedColumnName = "pid")
     private Person person;
     @Override
     public String toString() {
           return "PhoneNumber [regNo=" + regNo + ", phoneNo=" + phoneNo + ",
}
     PhoneNumber() {
           System.out.println("PhoneNumber:: Zero param constructor is called ::"
+ this.getClass());
     }
}
Note:: In Bi-Directional Association instead of specifying foreign key column using
@JoinColumn in both parent and hild class, we can specify only
       at one side with the support of "mappedBy" param.
       In OnetoMany Association we need to specify mappedby at Oneside(Parent
class).
       In ManytoMany Association we can specify mappedBy at any side(Parent
class).

    @JoinColumn(name="PERSON_ID", referenceColumnName = "pid")

                 PERSON_ID
                   ;;;;
2.
@OnetoMany(targetEntity=PhoneNumber.class,cascade=CascadeType.all,mappedBy="person"
                 person_pid
                   ;;;;;
Note:: In Association Mapping the cascading type are related to non-select
operation, which indicates any non-select operation done on main object
      will be cascaded/propogated to the associated child objects
      In Association Mapping, the fetch types are related to select operation which
indicates the associated child objects should be loaded along with
      the Parent objects or not.
                 FetchType.EAGER => child objects will loaded along with parent
object
                 FetchType.LAZY => Parent objects will loaded normally, but
associated child objects will be loaded lazily on demand basis.
      => Default fetch type for OnetoMany, OnetoOne, ManytoMany Association :: LAZY
      => Defalut fetch type for Many to One Association :: EAGER
Delete Operation in Association Mapping
_____
 Delete Parent object, so Deletion of Child object also should happen.
 Delete child object, but parent object should not be deleted.
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Joins
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=> Joins are given to get data from two db table of association having some
implicit condition
=> We can also add new condition on top of implicit condition
=> In SQL to work with joins the two db table need not be in relationship, whereas
in HQL/JPQL the two dbtalbles needs to be in association to apply joins
=> To work with HQL/JPQL we need to keep dbtables and their entity class in
relationship using association mapping concepts.
Syntax::
  select <parent class propertiye>,<child class properties> from <parent
class><alias name>
                                   <join type> <parent class HAS-A property>
<aliasname> <additional condition>
IPersonRepo.java
public interface IPersonRepo extends JpaRepository<Person, Integer>{
      //@Query("select
p.pid,p.pname,p.paddress,ph.regNo,ph.phoneNo,ph.provider,ph.type from Person p
inner join p.contactDetails ph")
     //@Query("select
p.pid,p.pname,p.paddress,ph.regNo,ph.phoneNo,ph.provider,ph.type from Person p
right join p.contactDetails ph")
     //@Query("select
p.pid,p.pname,p.paddress,ph.regNo,ph.phoneNo,ph.provider,ph.type from Person p
left join p.contactDetails ph")
     @Query("select
p.pid,p.pname,p.paddress,ph.regNo,ph.phoneNo,ph.provider,ph.type from Person p
full join p.contactDetails ph")//Error
      public List<Object[]> fetchDataUsingJoinsByParent();
}
AssociationRunner.java
@Component
public class AssociationRunner implements CommandLineRunner {
     @Autowired
     private IPersonMgmtService service;
     @Override
     public void run(String... args) throws Exception {
            service.fetchDataByJoinsUsingParent().forEach(row->{
                 for (Object obj : row) {
                       System.out.print(obj+" ");
                 System.out.println();
           });
     }
}
```