

How table creation mappings happen?..

@Entity

class Student

@Id

long id

String name

String psp

@Entity

class Laptop

@Id

long id

String name

String brand

Student :

id	name	psp

Laptop

id	name	brand

Each student can have a laptop. (1:1 relation).

@Entity

class Student

@Id

long id

String name

String psp

@OneToOne

Laptop Laptop

@Entity

class Laptop

@Id

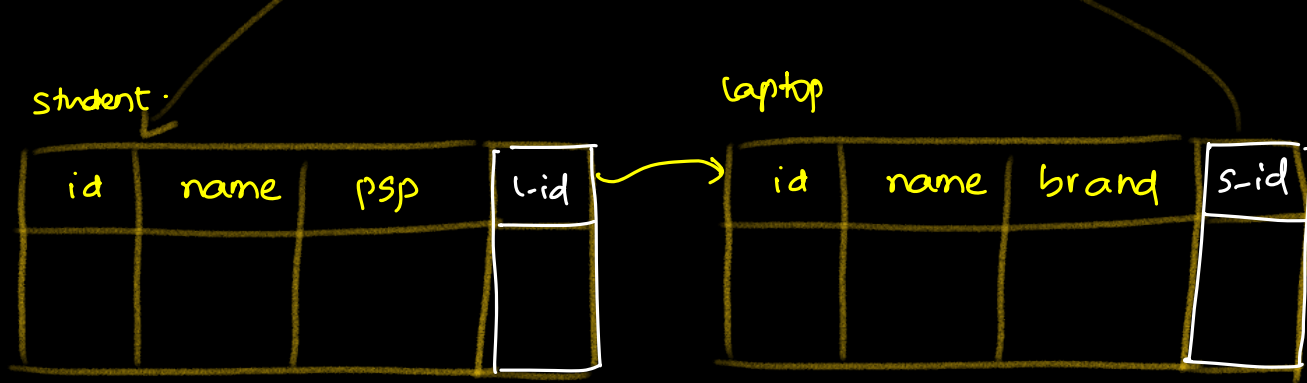
long id

String name

String brand

@OneToOne

Student Student



Explicitly mention that its a duplicate napping.

@Entity

class Student

@Id

long id

String name

String psp

@OneToOne (mappedBy = Student)

Laptop laptop

@Entity

class Laptop

@Id

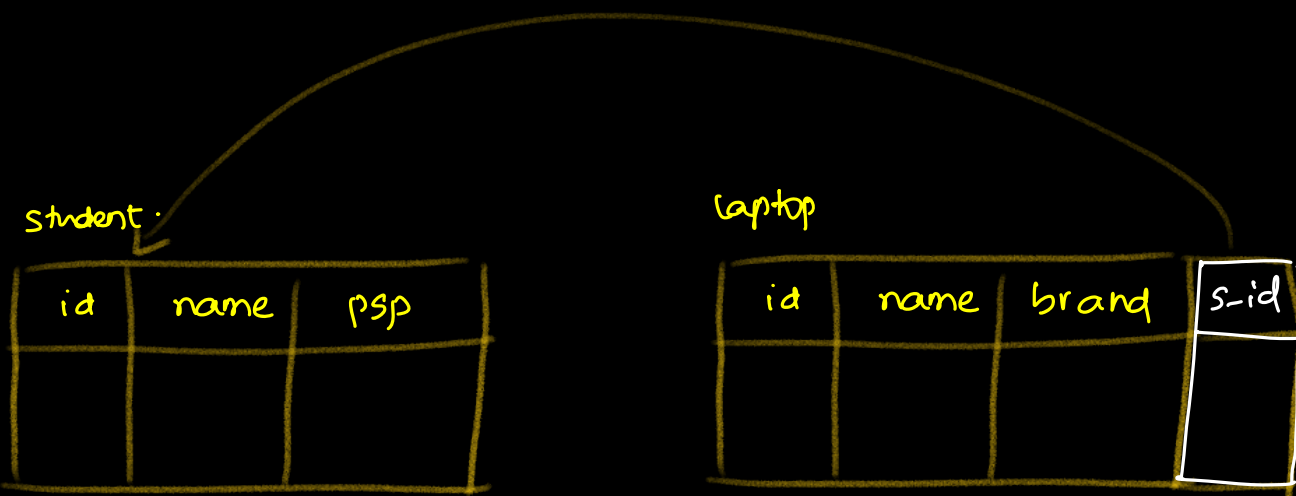
long id

String name

String brand

@OneToOne

Student student



Let's say,

Each Student can have multiple laptops. (1:M)

@Entity

class Student

@Id

long id

String name

String psp

@OneToMany

List<Laptop> laptops

@Entity

class Laptop

@Id

long id

String name

String brand

@ManyToOne

Student student

What gets created

Laptop

id	name	brand	s-id

Student

id	name	psp

Student-Laptop

s-id	L-id
1	2
1	3
1	5

Soln:

@Entity

class Student

@Id

long id

String name

String psp

@OneToMany (mapped By = student)

List<Laptop> laptops

@Entity

class Laptop

@Id

long id

String name

String brand

@ManyToOne

Student student

This will make sure the mapping table

is not created.

Let's say---

Each student can have multiple laptops, but some laptops can be shared by many students.

1: M } M:M.  
M: 1 }

@Entity

class Student

@Id

long id

String name

String psp

@OneToMany

List<Laptop> laptops

@Entity

class Laptop

@Id

long id

String name

String brand

@ManyToOne

List<Student> students

Laptop

id	name	brand

Student

id	name	psp

Student-Laptop

s-id	L-id
1	2
1	3
1	5

Laptop-Student

s-id	L-id
1	2
1	3
1	5

Sol<sup>n</sup>:

@Entity

class Student

@Id

long id

String name

String psp

@OneToMany(mappedBy = students)

List<Laptop> laptops

@Entity

class Laptop

@Id

long id

String name

String brand

@OneToMany

List<Student> students

Laptop

id	name	brand

Student

id	name	psp

Laptop-Student

s-id	L-id
1	2
1	3
1	5

Types of queries (Inside repository).

1. Declared queries.

→ 2. HQL

3. Native queries.

**HQL** : **Hibernate query language**.

Very similar to SQL.

(Combination of SQL and OOPS)

SQL → **Select** \* **from** **product** .

HQL → **Select** \* **from** **Product** .

Annotations → Column name.  
Annotations → field name.

---

**@Query**(" select s.psp, s.brand from student s")

**List** <CustomClass> **getPspAndBrand**();

**class** **CustomClass**

**String** **psp**;

**String** **brand**;

**interface** **Custom**

**String** **getPsp**();

**String** **getBrand**();

**Advantages:**

1. Easy to write complex queries
2. HQL queries are DB independent
3. More control over the query.

## Disadvantages

1. Queries may not be optimal for all DB types.

## Native Queries.

Write the exact query that you want to execute in your DB language.

```
@Query(" [redacted] ", nativeQuery = true)
```

```
List<CustomClass> getPspAndBrand();
```