

## Understanding ORM

@Entity

class Student

@Id

long id

String name

String psp

@Entity

class Laptop

@Id

long id

String brand

String name

Tables created - -

id	name	psp

Student

id	name	brand

Laptop

Add Rel:

1 Student can have 1 Laptop.

1:1

How tables should be created

id	name	psp

Student

id	name	brand	<u>sid</u>

Laptop

@Entity

class Student

@Id

long id

String name

String psp

id	name	psp

Student

@Entity

class Laptop

@Id

long id

String brand

String name

@OneToOne

Student student;

id	name	brand	sid

Laptop

@Entity

class Student

@Id

long id

String name

String psp

@OneToOne

Laptop laptop

id	name	psp	Lid

@Entity

class Laptop

@Id

long id

String brand

String name

@OneToOne

Student student;

id	name	brand	sid

Student

laptop.

Fix

@Entity

class Student

@Id

long id

String name

String psp

@OneToOne(mappedBy = "Student")

laptop laptop

@Entity

class laptop

@Id

long id

String brand

String name

@OneToOne

Student Student;

id	name	psp

Student

id	name	brand	s.id

laptop.

One student can have multiple laptops -- [1:M].

tables you want to create.

Put id of student in laptop table.

The code that we've --

@Entity

class Student

@Id

long id

String name

String psp

@OneToMany

List<Laptop> laptop

@Entity

class Laptop

@Id

long id

String brand

String name

@ManyToOne

Student student;

id	name	psp

Student

id	name	brand	s-id

Laptop

s-id	l-id
1	1
1	2
1	3

Student-Laptop

Ex

@Entity

class Student

@Id

long id

String name

String psp

@OneToMany(mappedBy = "student")

List<Laptop> laptop

@Entity

class Laptop

@Id

long id

String brand

String name

@ManyToOne

Student student;

id	name	psp

Student

id	name	brand	id

Laptop

// Try doing M:M and verify & write the corresponding annotations.

## Optional

```
User user = UserUtil.findUser(userId)
```

```
if (user != null)
```

```
    user.name → print
```

```
Optional<User> user =
```

```
user → Optional.
```

actual data

```
user.isPresent() → boolean
```

```
user.get() // get actual data
```

## Student

id	name	psp
1	keerthi	90

1. establish db connection

2. write query

3. execute query

4. map to your objects

5. get the data

## Repositories

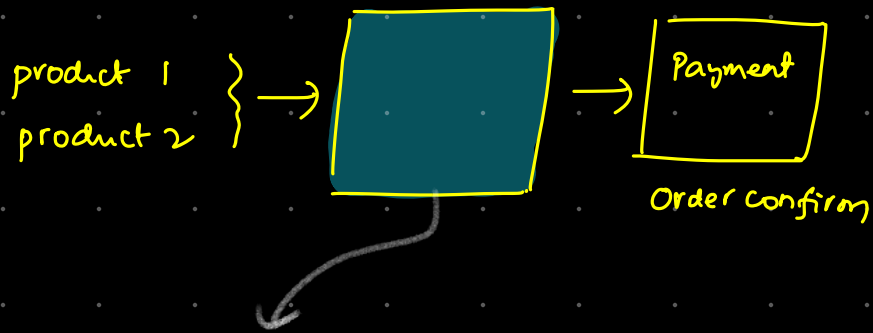
```
interface StudentRepository extends JpaRepository<Student, Long>
```

## Student Controller

```
StudentRepository.  
    .save(Student)  
    .findById(123)  
    .count()  
    .findAll()
```

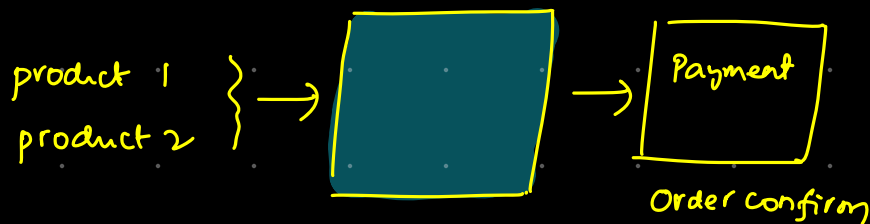
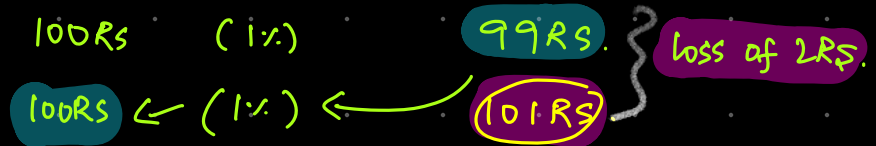
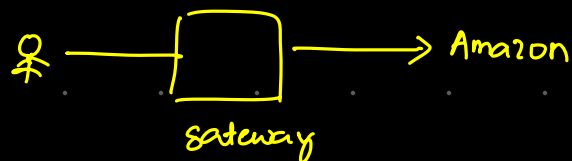
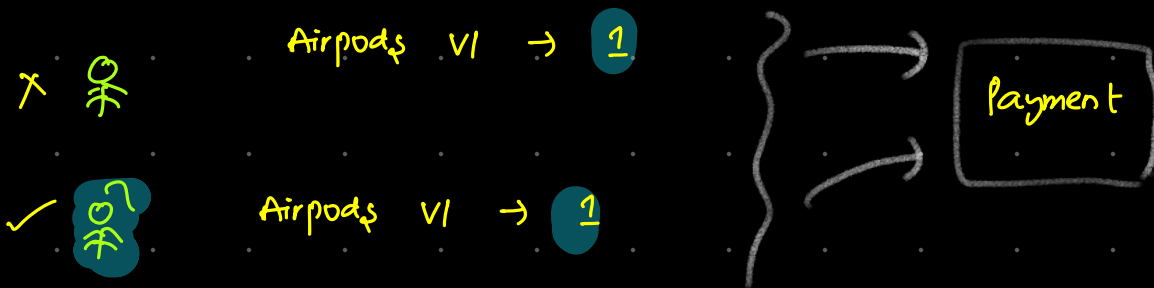
id	name	psp

Amazon.in



Add address / Confirm products / more details.

Quantity



Quantity

