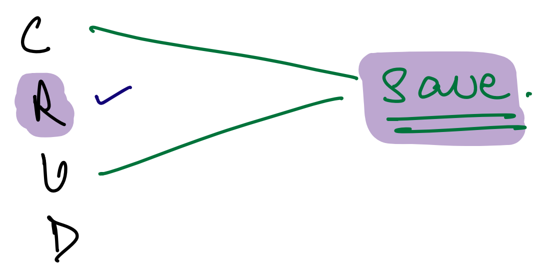
Agenda.

- → Declared Queries.
- → Custom Queries.
  - → HQL
  - → SQL. (Native)
- → Representing Cardinalities.
  - → Mapped by
  - → Cascade.
- → Fetch Types.
  - → EAGER
  - → LAZY.

→



Product save(Product p) ⇒ Upsert.

Insert

⇓

If id is NOT set in the input product Object, We'll save the product object into the DB and return the product with Id

Update

⇓

If product object has already id set.

```
if( P.getId() == NULL) {
        // insert;
}
else {
        // update
}
```

Representing Cardinalities.

↓

Relation b/w 2 entities.

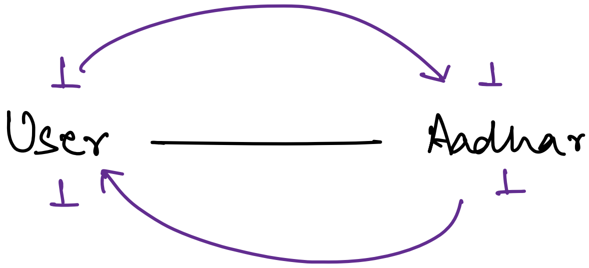
1:1

1:M

M:1

M:M

⇒



⇒ 1:1

users

userid	- - - -	aadhar
—	— —	xyz

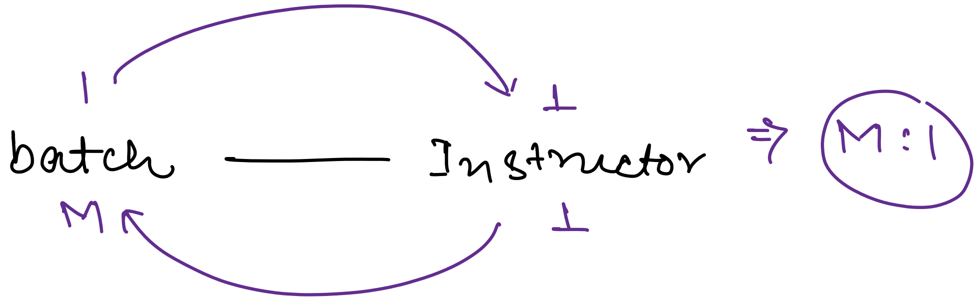
OR

aadhar

aadhar		userid

⇒ Id of one side on other side.

1:M | M:1



batches

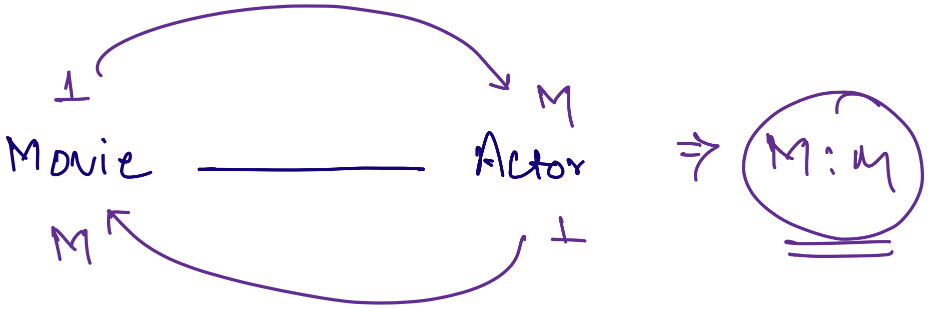
id		instructor_id
7		105

instructors

id		List of batches.
		~~< 7, 10 >~~

⇒ Id of 1 side on M side.

M:M.



movies

	List of Actors
	~~<---->~~

actors

	List of Movies
	~~<---->~~

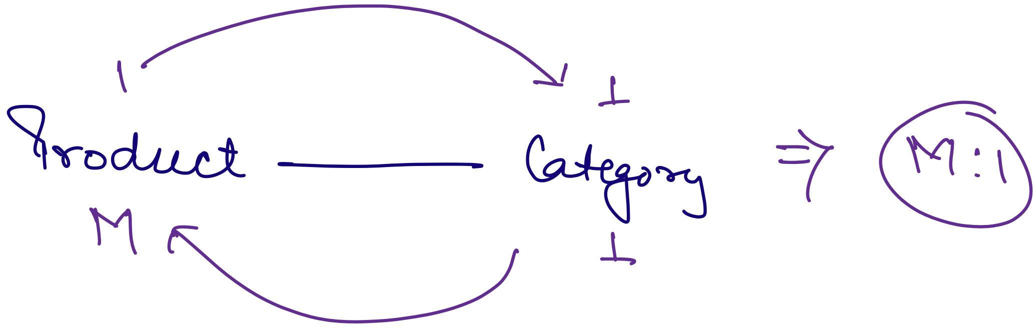
⇒ Mapping Table.

movies_actors

movie_id	actor_id
1	10
1	11
1	100

```
Product {
        id
        title
        description
        price
        @ManyToOne
        Category
}
```

```
Category {
        id
        name
}
```



```
Product {
        id
        title
        description
        price
        @ManyToOne
        Category
}
```

```
Category {
        id
        name
        @OneToMany
        List<Products> products;
}
```

⇒ Same relation shouldn't be stored in the DB on both the sides.

MappedBy.