

Agenda

Representing Cardinalities

↳ Mapped by
↳ Cascading

Schema Migration & Versioning

↳ flybase

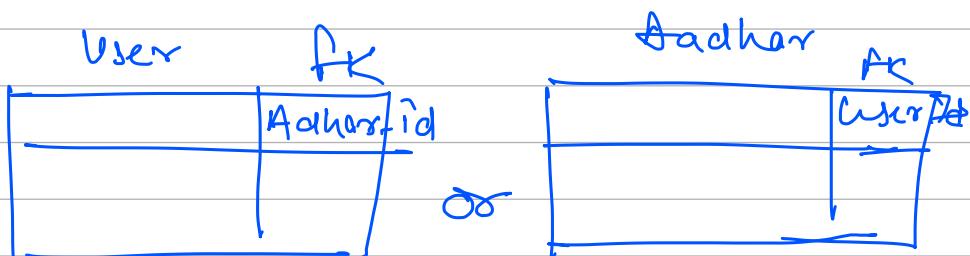
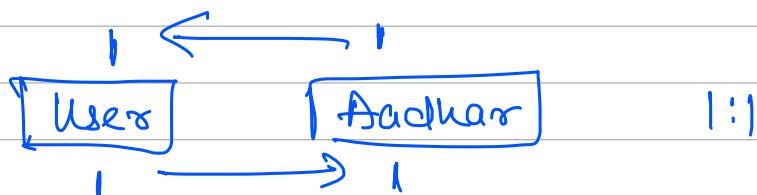
Representing Cardinalities

1:1 \Rightarrow @One to One

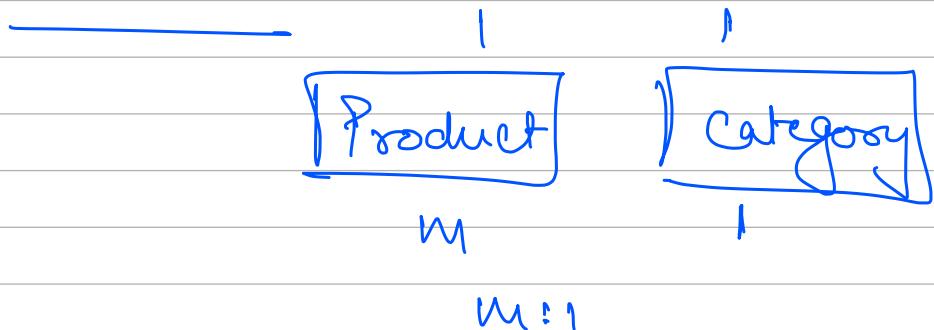
1:M \Rightarrow @ One to Many

M:1 \Rightarrow @ Many to One

M:M \Rightarrow @ Many to Many

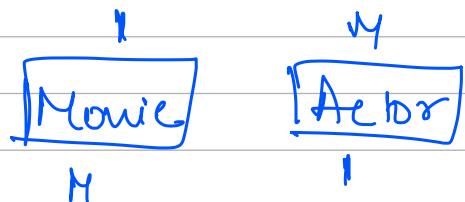


1:M or M:1



Id of ① on side of ②

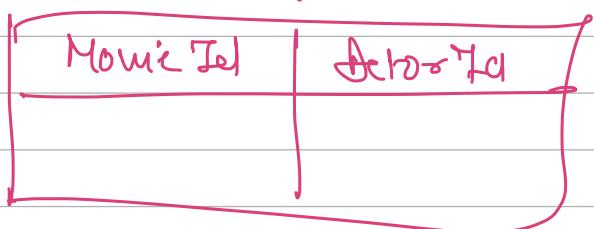
M:M



Movie



Mapping Table



JPA

→ Relationship will take care

Product ↗



@ManyToOne
Category



Category ↘



@OneToMany [MappedBy
List<Products>]^{"Category"}



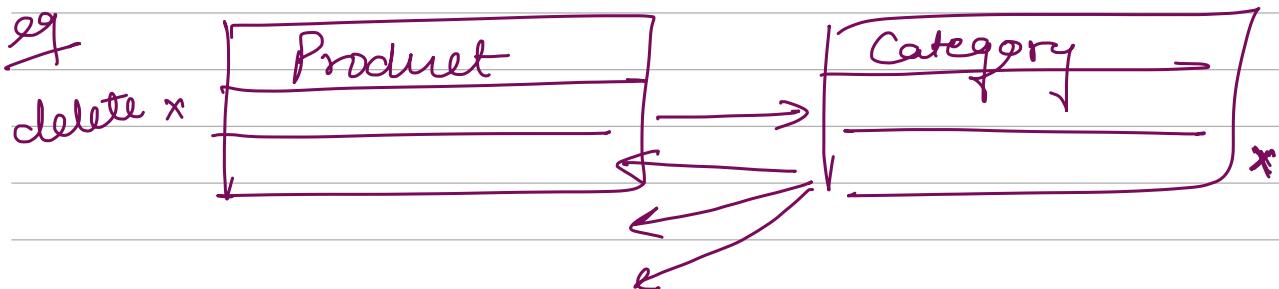
Product

	Cat_id

Mapping

Cat_id	Product_id

Cascading



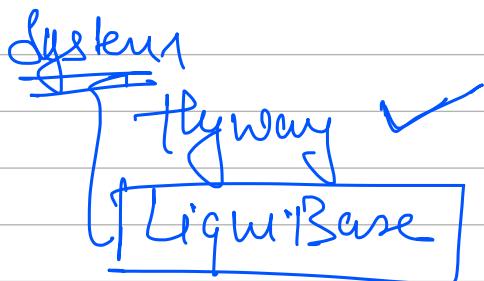
Schema Versioning & Migration

All the tables are getting created by ORM
where we don't have any visibility

Int serial → TinyInt



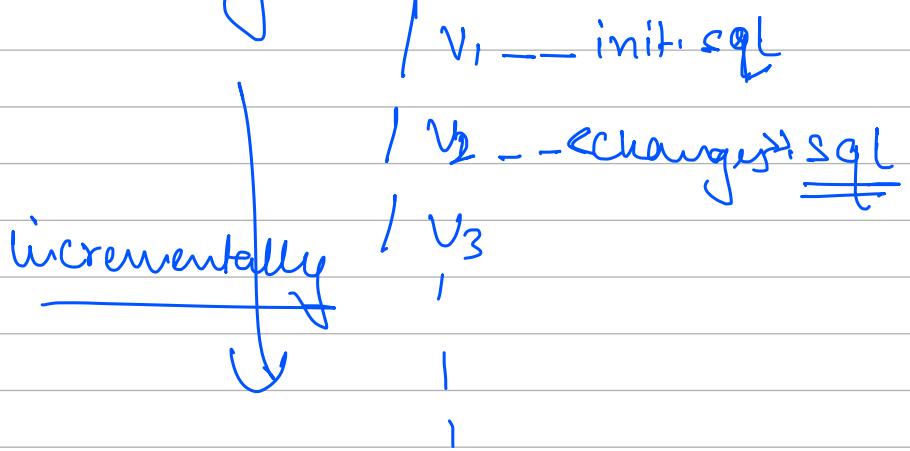
{ It is important to maintain DB change
History



Git
T → git

In Our project, it will create db.migration
folder will be created

db. migration



Flyway also maintains version history
in DB with file checksum

{

```
list<Category> categories
= CategoryRepo.findbyTitleContaining("Electronics")
for (Category c : categories) {
    for (Product p : c.getProducts) {
        sout(p.title);
    }
}
```

Assumption "M" categories

and each category will
have "N" products

① 1 + M → for each category fetch list of products
└ fetch all categories

② 1 + M * N

③ Select * from Categories
→ where title like "% — %"]]]
Select * products
→ where category_id IN []]

If your ORM isn't optimizing the N+1 query
write own Native Query

@Query()