JPA/Hilbernate Advance d Mappings One - to - One Mapping I naturator Instructor Detail FK fild in a table refers to PK of another table Coscade: - cascade operations
- apply same operation to related entities Fetch type:
- Eager: retrieve everything
- Lazy: retrieve on request a Table (name=" instructor - detail")
public clas Instructor Odail & y a Table (name = "instructor")

public class Instructor 3

nouveau @ One to One (casca de = Casca de Type, ALL)

@ Join Column (name = "instructor detail - id")

private Instructor Detail instructor Detail;

La au heu de " instructor detail- id "

tu meto la classe correspondante

Enlity likeagele o detach; Entity not associated with Hibernate session omes ge: if instance is detaded from session, merge will reattach to session o persest: transitions new instance to managed state. Next flush (commit certi save o senore, transitions managed entity to be removed. Nort flush/commit delete db o represh: reload synch object with data from db, brevents state data by default, no operation. * tu peux spécifies liste coscade operation que tu veux. One-to-One Mapping - Bi-directional Use case: - Load Instructor Detail then associate with Instructor No change on db -> update Jasa Code:

1. Add field Instructor in Instructor Detail

2. Getler / Setter for Instructor 3. Add 20 ne To One Annotation on Instructor field - Mapped by tells Hibernate:

- Look at Instructor Detail in Instructor

- Use info from Instructor class a Soinfolumn

- To help find Instructor associated with

One-to-Many . An instructor can have many courses. Instructor & · When delete an instructor do not delete courses.

· If you delete a course, do not delete instructor id INT tile vandar (28) +++ first name Dan Entity sera instructor et non int instructor - id email instructor - detail - id Dano Course entity: @ Soin(dumn (name = "instructor id")

private Instructor instructor Special = Pano Instructor: To One To Many (mapped By = "instructor")

private List (Course) courses; mapped By: - Look at Instructor in Course

- Use info from Course class & SoinColumn

- To help find associated course for instructor.

One-to-Many-Fetch Types: Eager is dazy · Eager: pull everything. Ex: load Instructor with Actails o dazy: retreire on request
- bad main entity first, load dependent entities on demand of etch Type DOne To Many (fetch = Fetch Type, Lazy, mapped By = "intructor")

Private List (Course) courses;

Rault Fetch Type o Default Fetch Type

o Default Fetch Type . EAGER

o Done To Mony; Fetch Type . LAZY

o Default Fetch Type . LAZY

o Default Fetch Type . LAZY

o Default Fetch Type . LAZY > Override - Default Fetch Type A If Hilamate session is closed and you attempt to retraine data, Hilbernate will throw an exception. Solution: - use Fetch, Type = Eager (aasy fix)
- ou bien; o Fetch Type . Lazer

o Typed Query on Course
o instructor, set Course () Better Solution than previous: use Soin Fetch
We want: to get I naturator and Courses in a single query

- leep LAZY option available Typed Query & Industr > query = ontity Manager viele Query (...) JOIN PETCH is similar to BAGER Loader g

JOIN FETCH .

· ChatGPT

- Load an Author and their books in single query

SELECT a

FROM Author a

JOIN FETCH a books

WHERE a id = coultra Id

It's equivalent to:

SELECT a. +, b. +

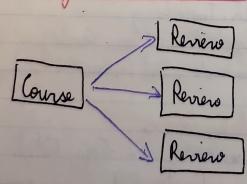
FROM Author a

JOIN Book b ON a. id = b. author_id

WHERE a.id =?

One To Many: Update Instructor: Update Course
Delete Instructor
Delete Course

One To Many: Uni-derectional



a review

o Casca de delete

Many - to - Many Mapping o Course can have many students.
o A Student can have many courses. JOIN TABLE: A table that provides mapping between troe table Dans das Student: o & Many To Many @ Join Tuble (name = "course - student", define on Course and join Colemns = Dein Colemn (name = "student - id") Students inverse Join Colemn = Dein Colemn (name = "course - id") private List (Course) course; o Do not cascade deleto