Today’s Objectives

1. Revise with Team 1 <----> \* Player
2. Cascading
3. Orphan removal
4. JPA Fetch Types n LazyInitializationException
5. Establish uni dir association - User(Blogger) 1 <---- \* BlogPost n test it
6. Uni dir one to one (User 1--- >1 Address)
7. Uni dir many to many (Tag \*------>\* BlogPost)
8. Components (value types) – Embeddables
9. **Revise**

How will you establish , a bi dir Team 1 <----> \* Player ?

In Team class

@OneToMany(mappedBy=” myTeam”)

Private List<Player> players=new ArrayList<>();

In Player class

@ManyToOne

@JoinColumn(name=”team\_id”)

Private Team myTeam;

Solve

Add Player to the team

i/p – team id , player details

Dev steps in Player DAO implementation class

1. get team from its id (session.get)
2. if not null -> team : persistent
3. call helper

team1.addPlayer(p1);

1. session.persist(p1);

Add helper method in Team class

Public void addPlayer(Player player)

{

This.players.add(player);

Player.setMyTeam(this);

}

1. How to **automatically persist** blog post , after its added in the association ?

Add cascading n test AddBlogPostToCategory again.

Refer -

1. **Solve objective**

Remove blog from the given category

i/p - blog id , category id

o/p - mesg

DB action - rec should be deleted from posts table

Any problem ? update query get fired instead of delete , causing orphan record.

Solution – orphanRemoval =true

1. **Solve objective**

Get Category details , by its name

i/p category name

o/p category details or exception in case of invalid name

1. **Solve objective**

Get Category n blog post details, by its name

i/p category name

o/p category + blog post details or exception in case of invalid name

Any problems n solution?

Problem – LazyInitializationException , different solutions

(change fetchType –eager | access size of the collection within session scope | join fetch)

1. **Solve objective**

Establish uni dir association between BlogPost n Blogger

**BlogPost \*----->1 User (Blogger)**

How will you configure this in Entity layer ?

What will you add in User(Blogger) class ?

Nothing !!!!

What will you add in BlogPost class ?

@ManyToOne

@JoinColumn(nullable=false)

private User blogger;

1. **Solve objective**

AddBlogPostToCategoryWithBlogger

i/p – category id , blogger id , blog details

o/p – message

DB – a record should be inserted in posts table with FKs set (blogger id n category id)

1. **Solve objective**

**Establish uni dir association - one to one (User 1--- >1 Address)**

**Solve .**

What will you add in User class ?

@OneToOne

@JoinColumn(name=”address\_id”)

Private Address userAddress;

What will you add in Address class ?

None !(nothing related to user)

1. **Uni dir many to many (Tag \*------>\* BlogPost)**

What will you add in Tag class ?

@ManyToMany //mandatory

@JoinTable(name=”my\_tag\_posts”,joinColumns=@JoinColumn(name=”tag\_id”),inverseJoinColumns=@JoinColumn(name=”post\_id”))

private Set<BlogPost> posts=new HashSet<>();

What will you add in BlogPost class ?

Nothing for association !

Must override – equals and hashCode OR @EqualsAndHashCode

1. Components (value types) – Embeddables

User HAS-A Adhar Card : demo of entity n value type (composite)

User HAS-A Language Skills : string (multiple languages)

: collection of basic value type