

# Instructions



How do you invigorate yourself when you feel tired ? What cheers you up ?

8 responses

and we had bigdata today

food

watching some fun

beer

coffee

sleep

fun

hang out

# Today's agenda

- Total Recall
- ORM & JPA & LIFECYCLE
- JPA Example
- Quiz
- Discussion



# Total Recall

What do you remember from the last session?

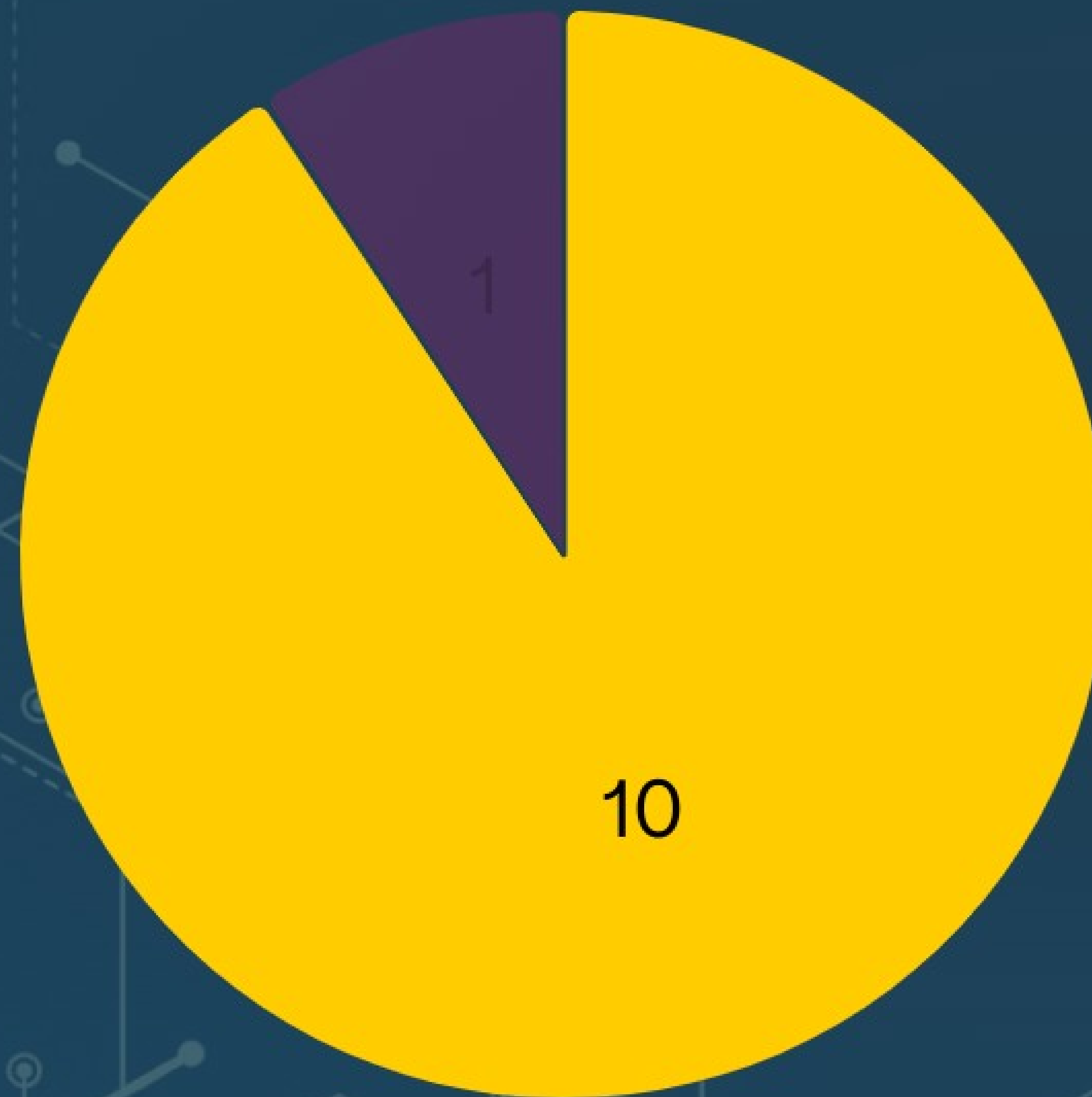
12 responses

ui figma prototype  
figma

builderio  
web interface



# Who is receiving requests in MVVM?



0	Model	✗
10	View	✓
1	View-Model	✗

Select most correct meaning:

11 ✓



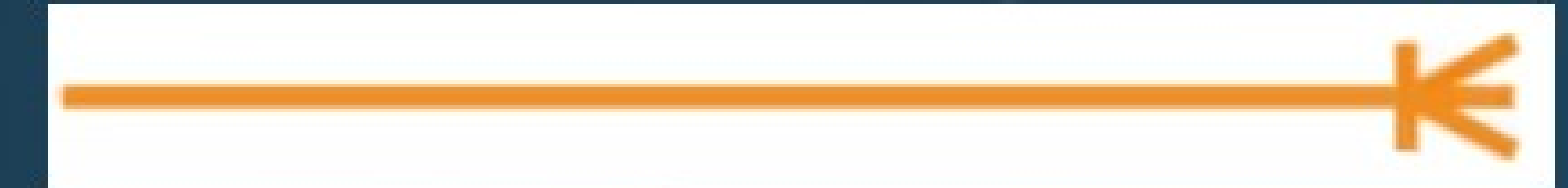
mandatory many

0 ✗

many to one

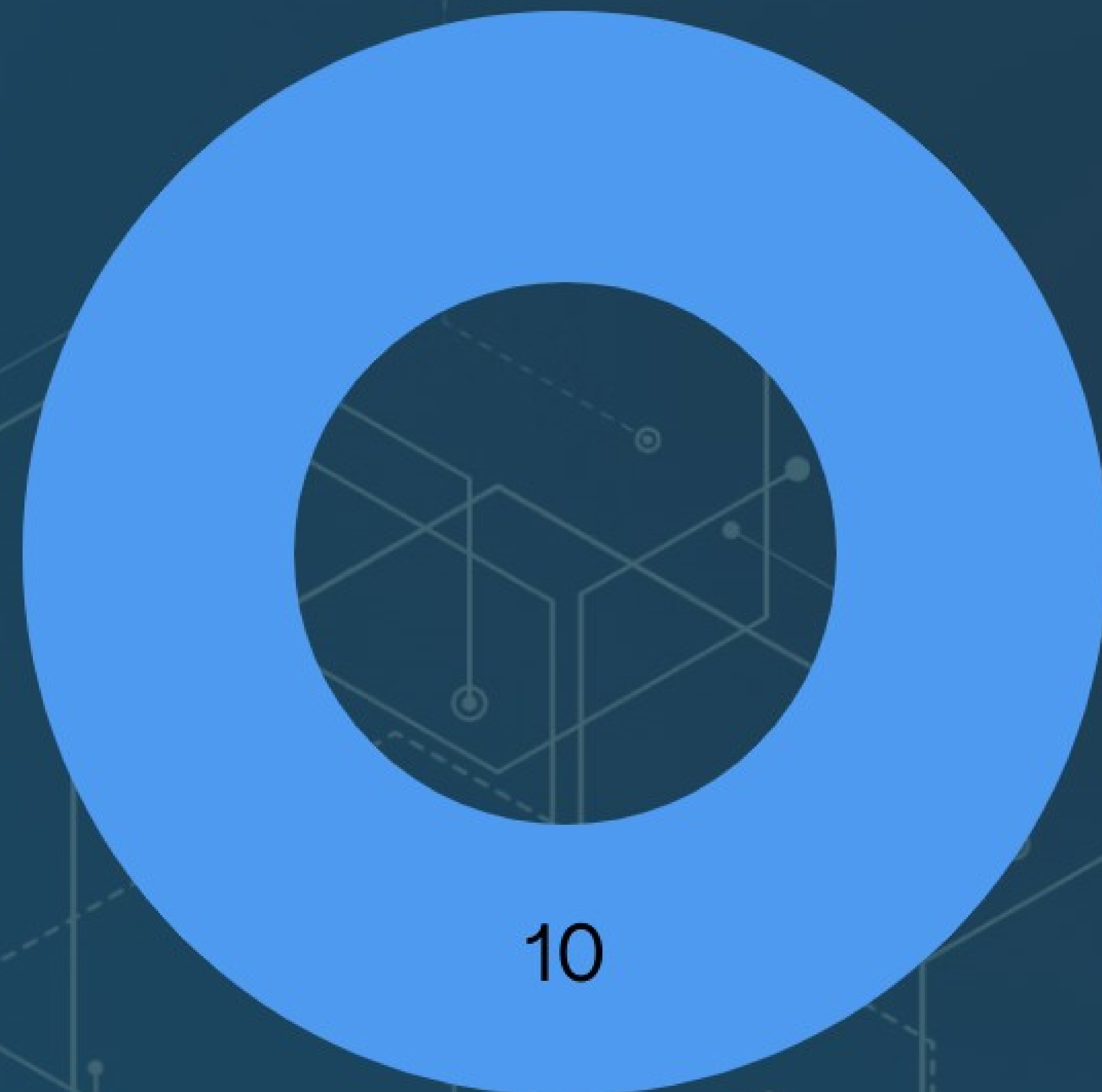
0 ✗

optional many





# How can designers assist users in making decisions when encountering a new interface?



10

Add emphasis to the "next step" to guide users through their most likely task



0

Overwhelm users with multiple options to encourage exploration



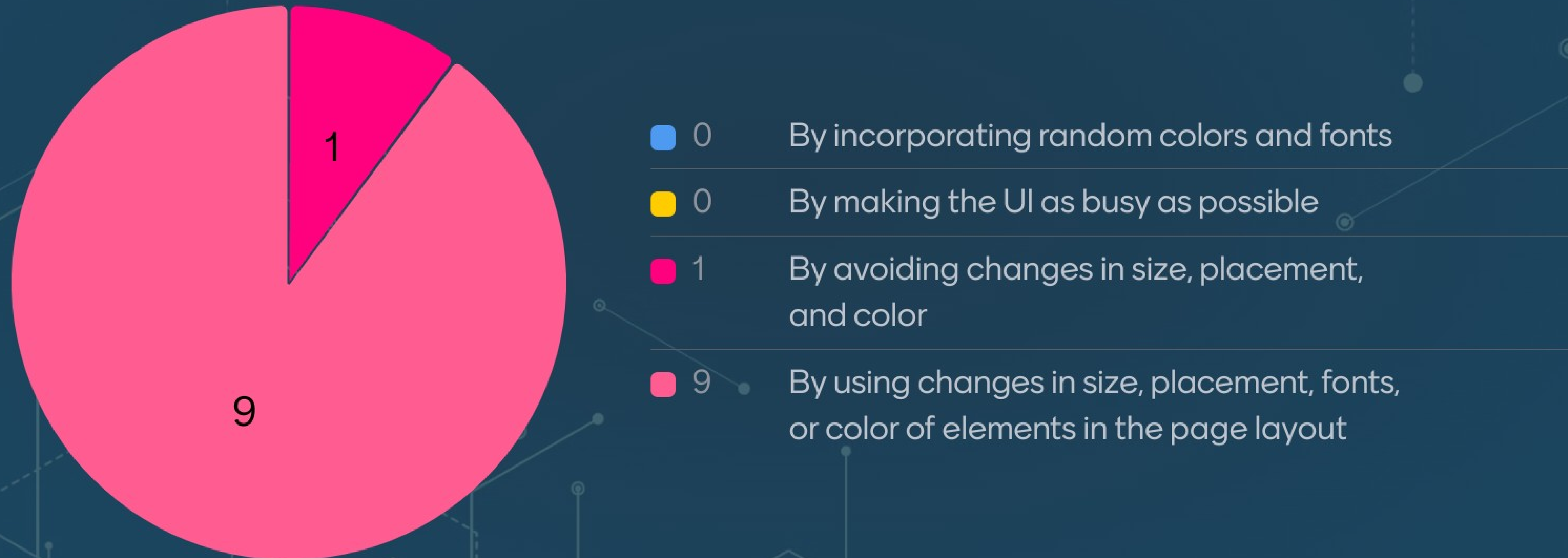
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Include all features in the initial interface design without considering user progression





As of recommendations, how can UI designers **direct users' attention** effectively?





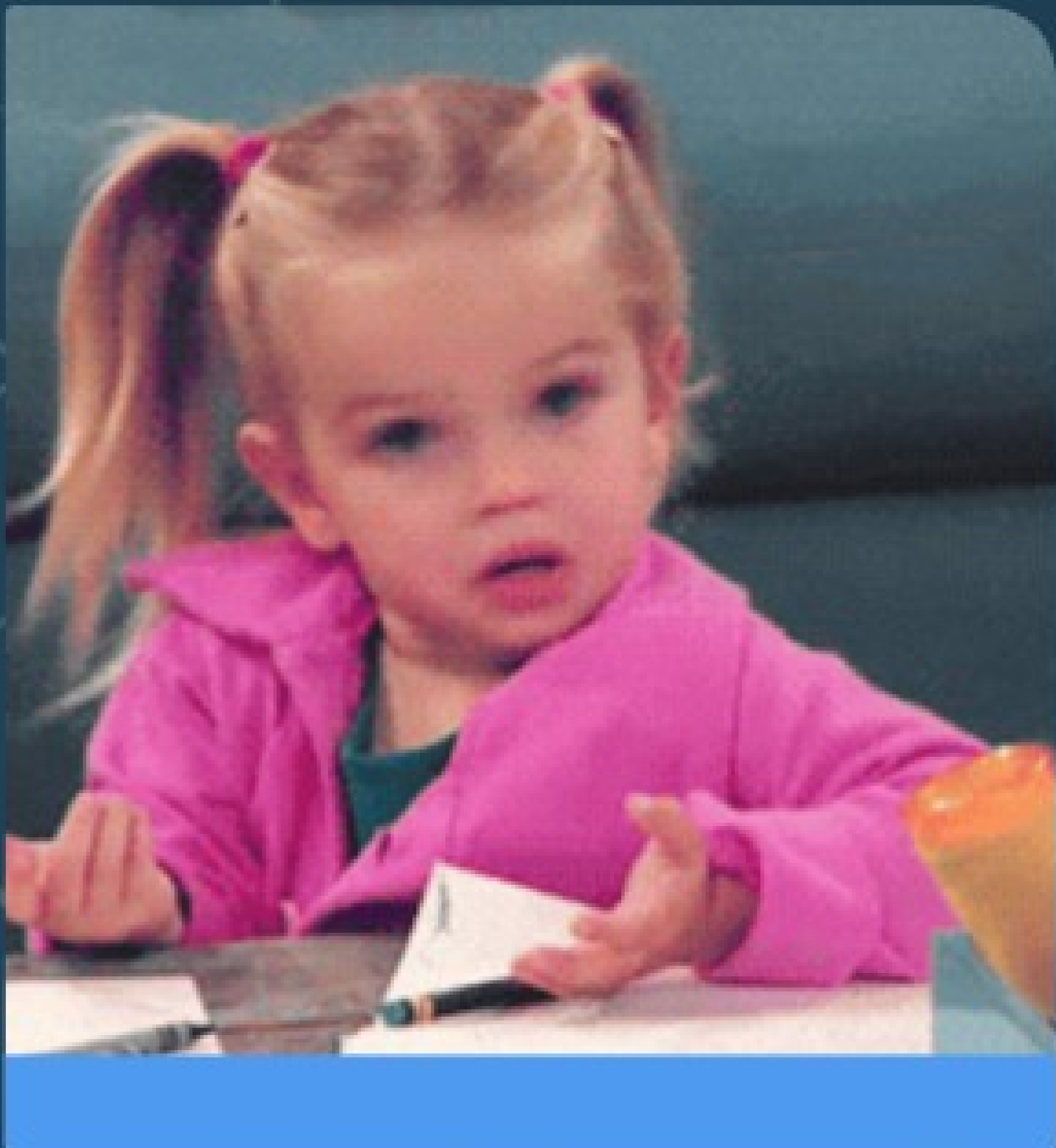
# JPA (ws-05)

ORM | JPA | ENTITY | PERSISTENCE CONTEXT



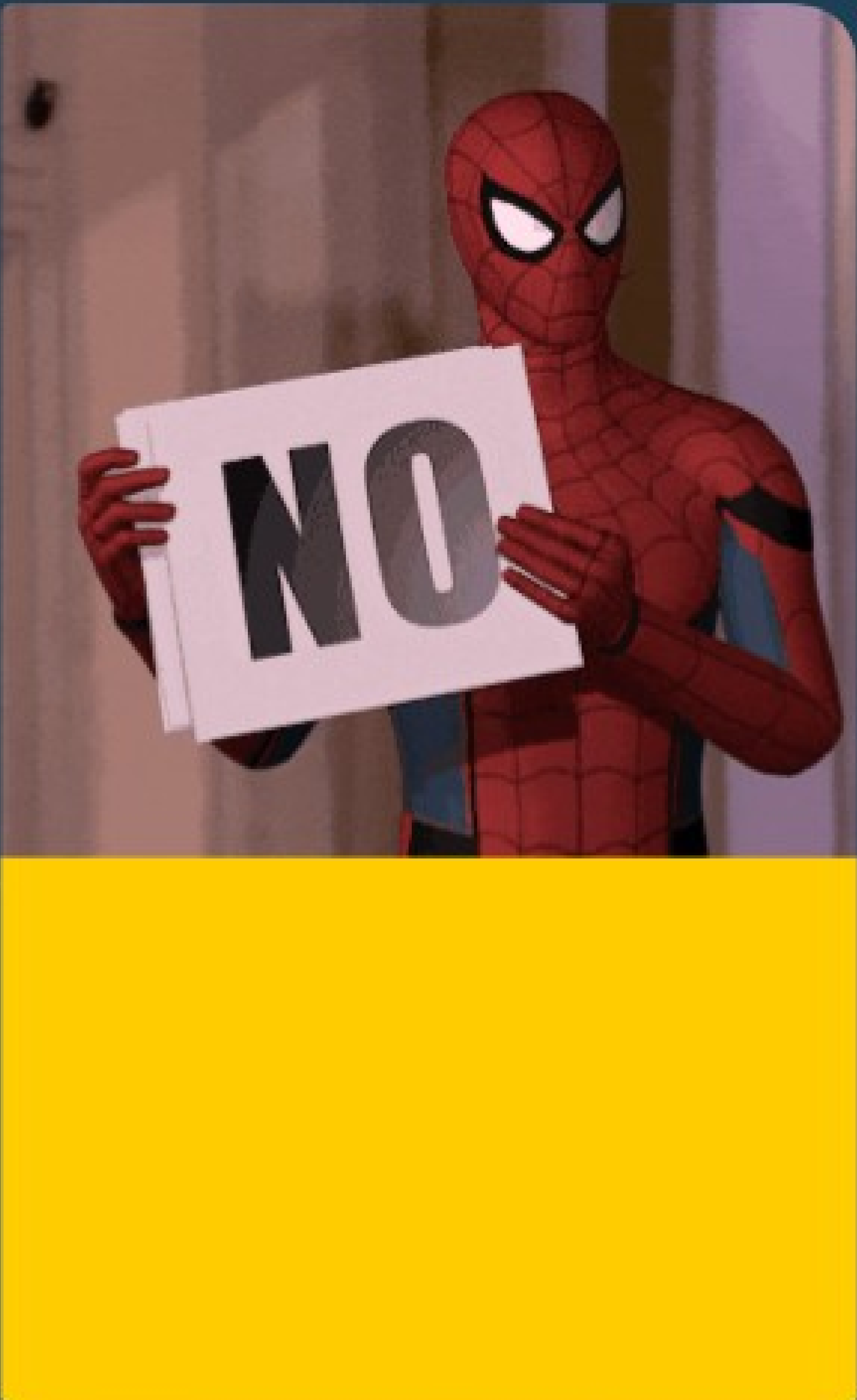
Have you started the theory of 'JPA'?

1




????????????????

9



+

0

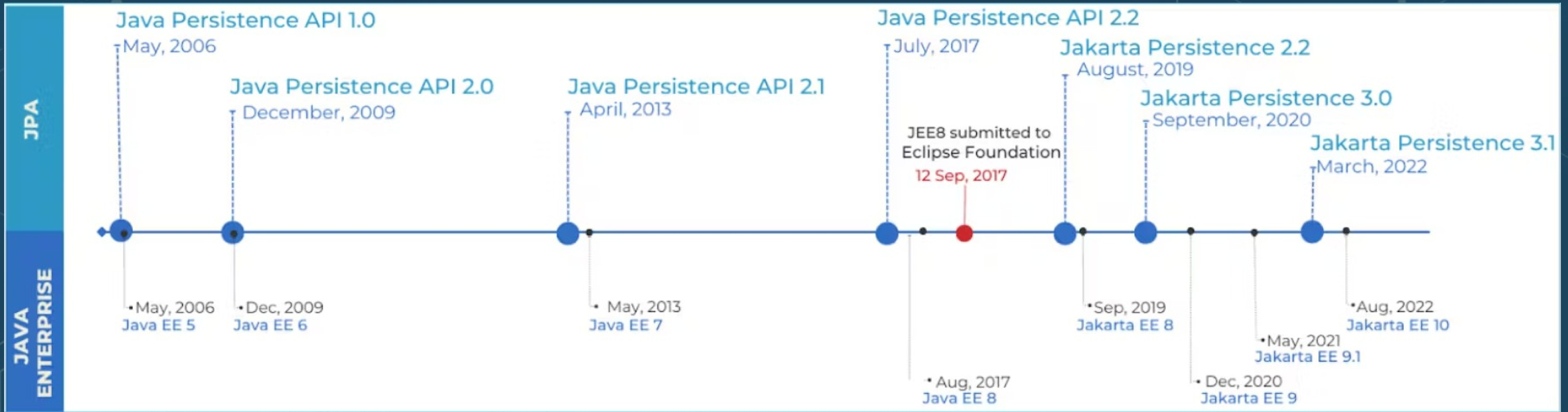


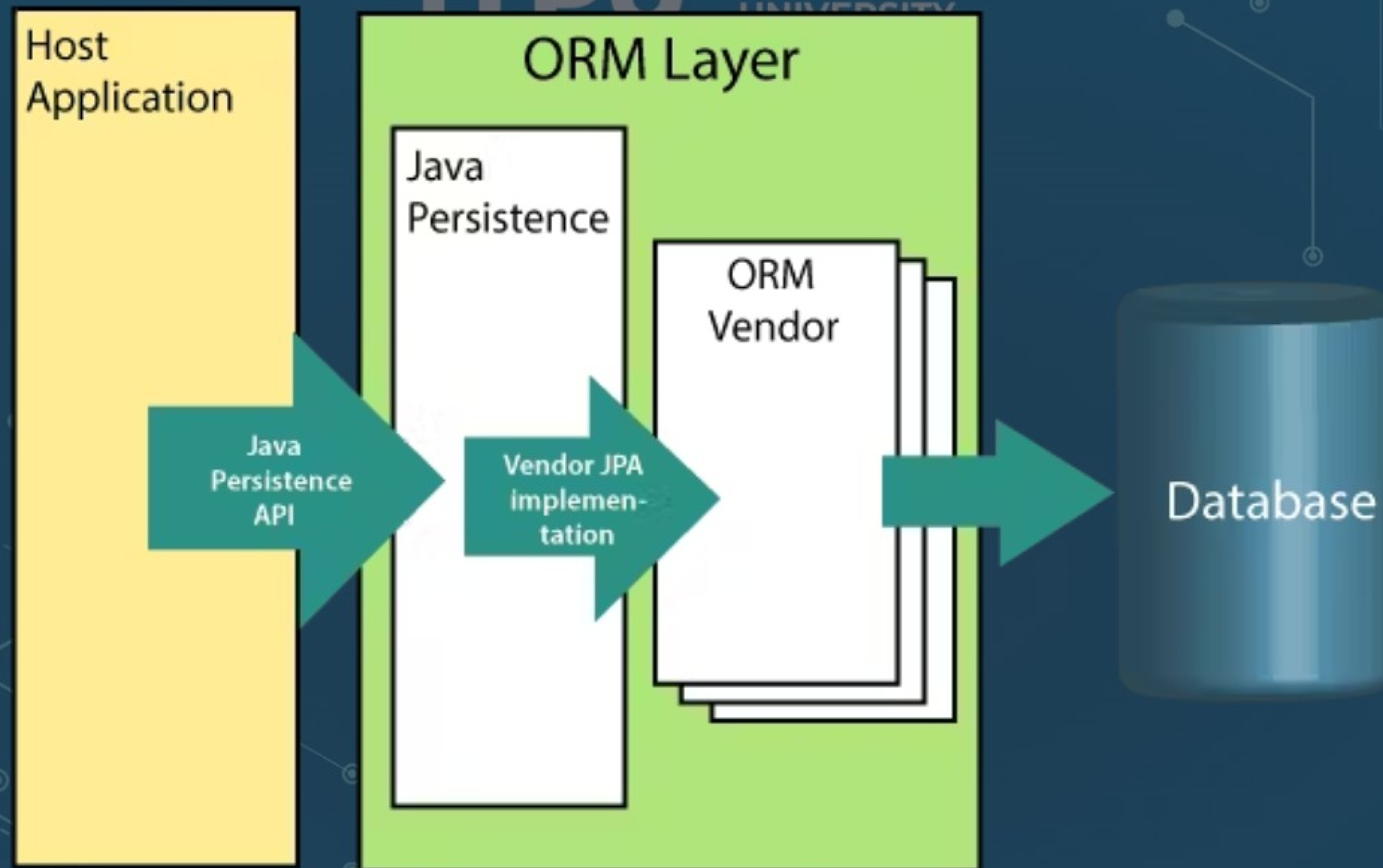
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# Definitions

- ORM == Object Relational Mapping
- JPA == Java Persistence API || Jakarta Persistence API
- `javax.*` --->>> `jakarta.*`
- Vendor == Hibernate || etc.

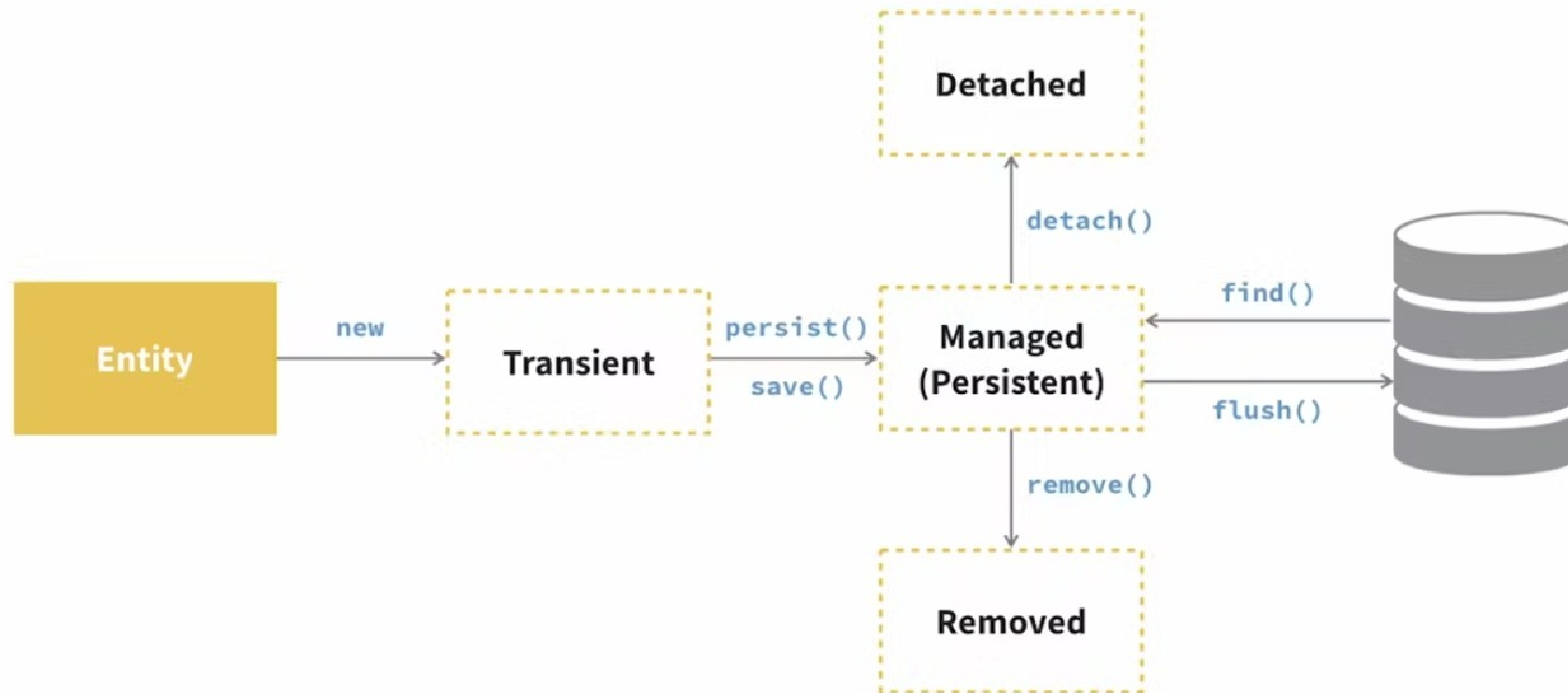








# Entity Lifecycle



# Explore module ws-05

<https://github.com/AndreiRohau/itpu-java-web-2025>

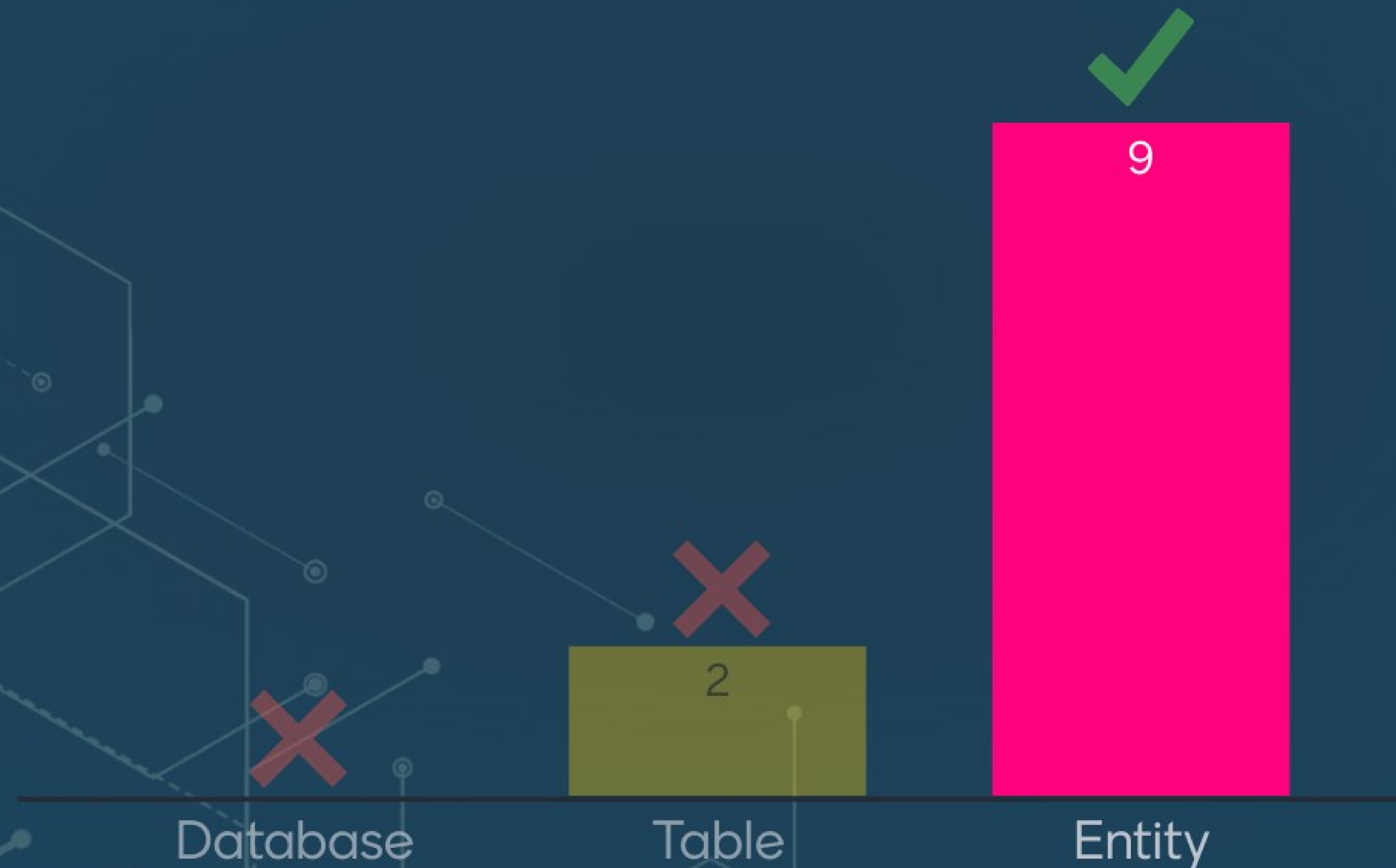


**10 mins break**

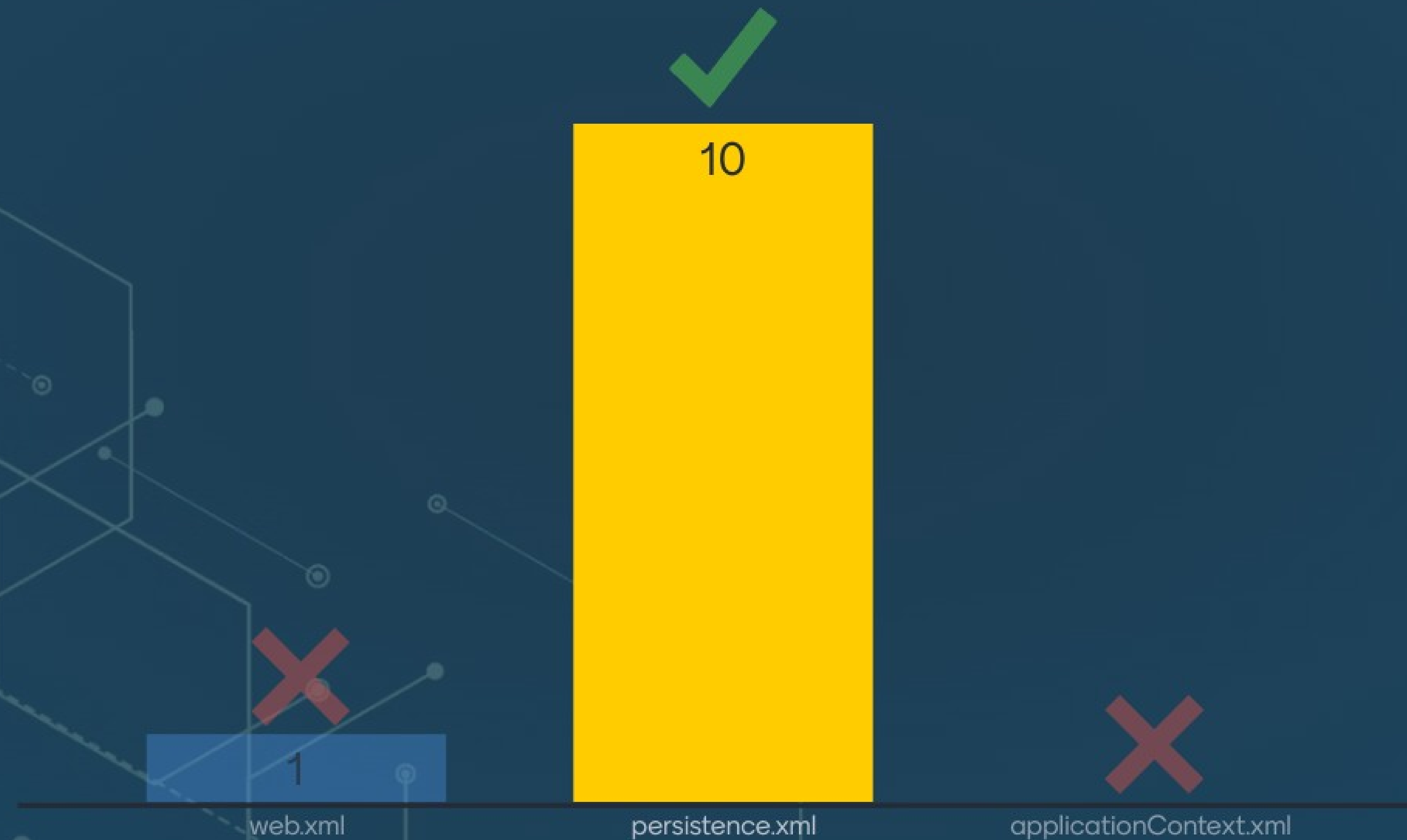
# Quiz



Which annotation is used to declare an *Entity* class in JPA?

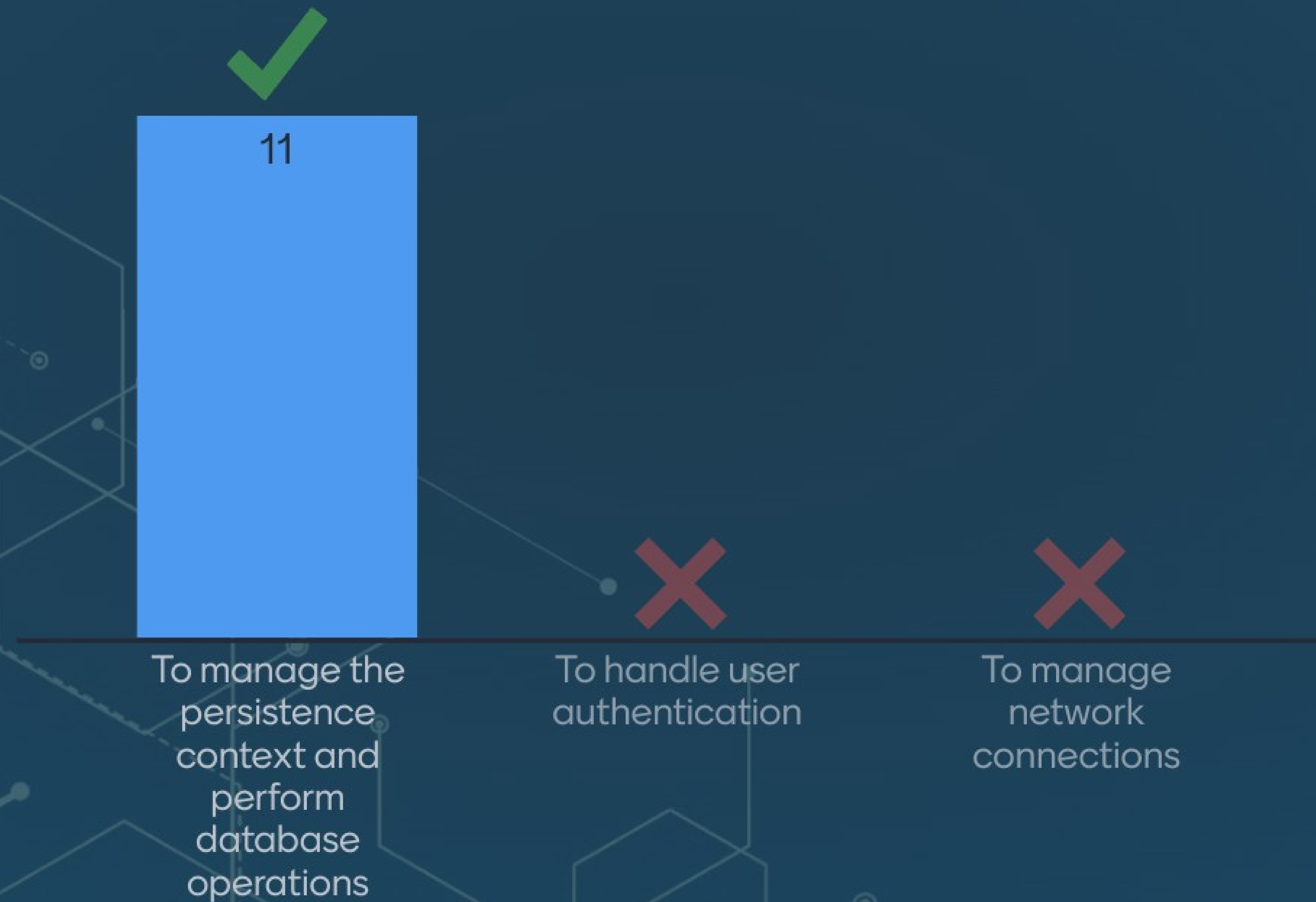


Which file is used to configure *persistence* units in a JPA application?

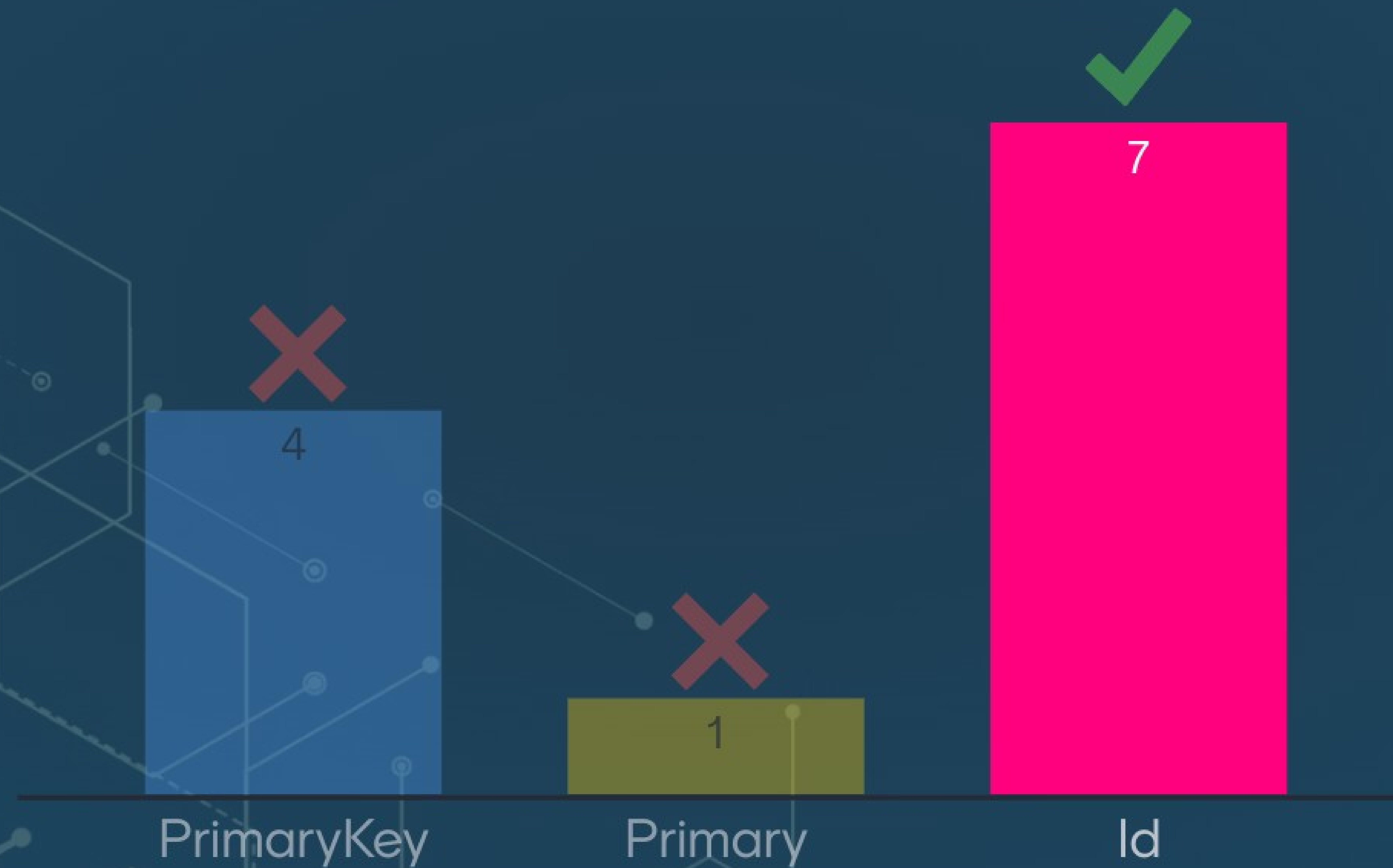




# What is the purpose of **EntityManager** in JPA?

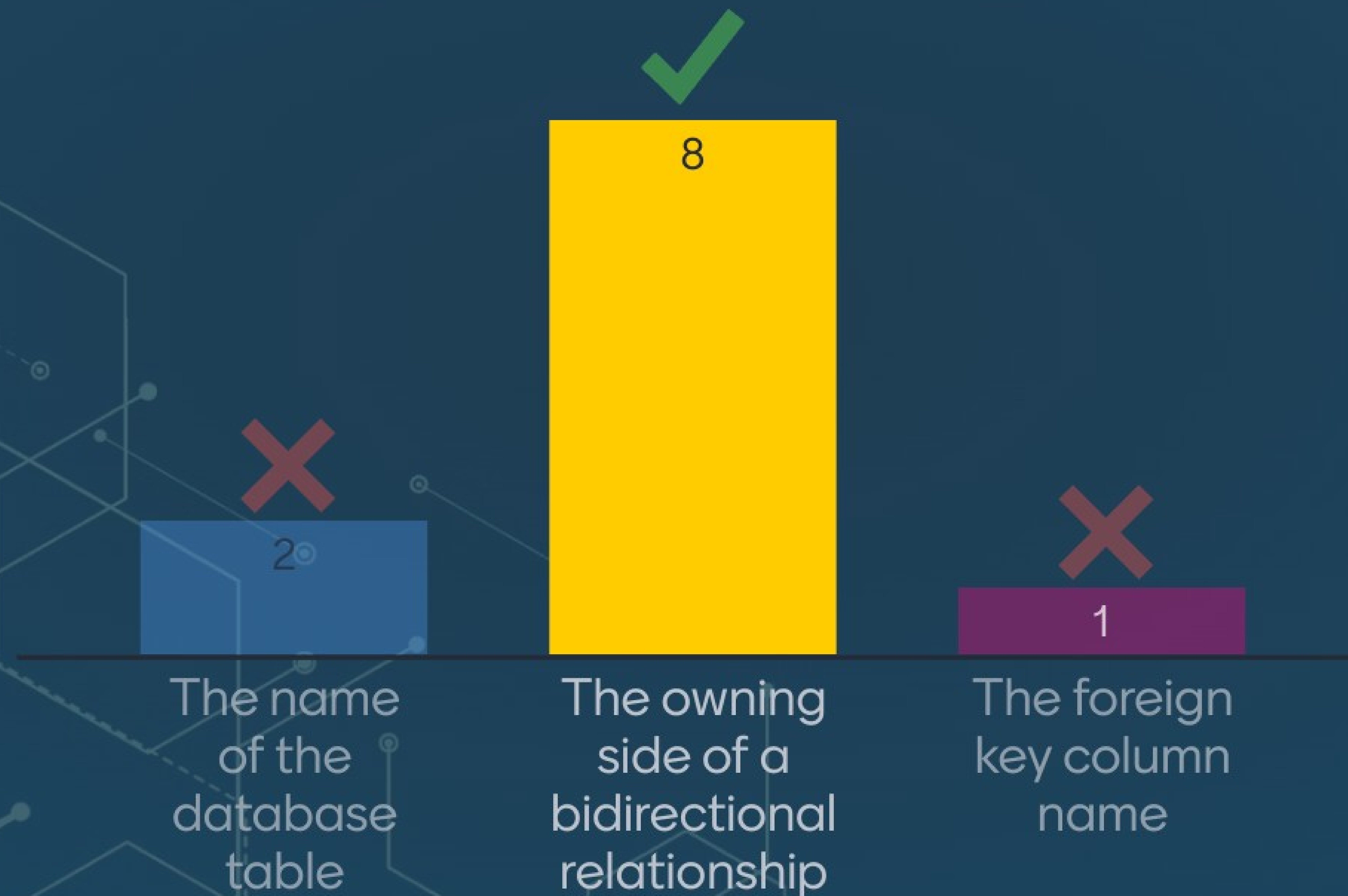


Which JPA annotation is used to specify the *primary* key of an entity?

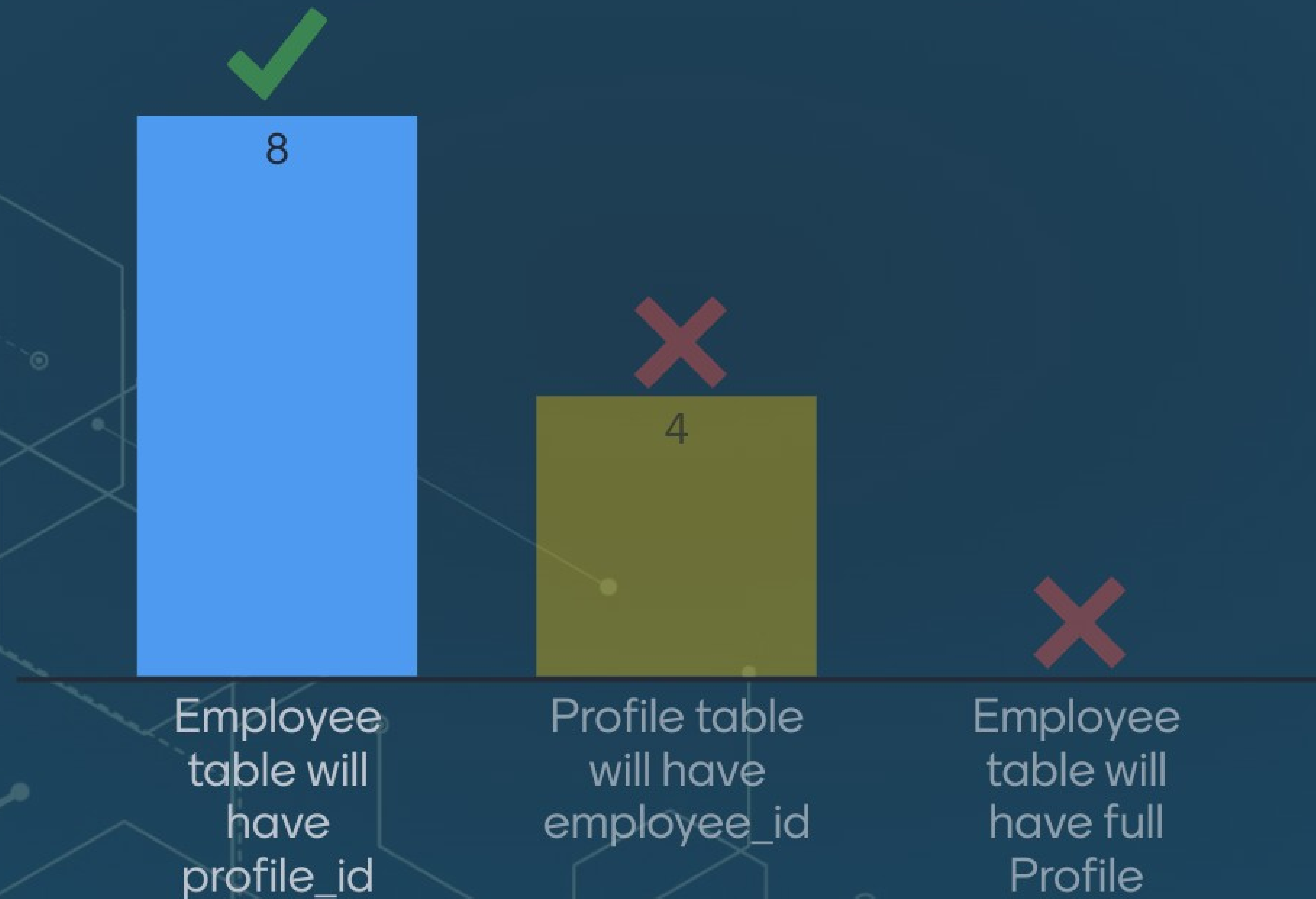




# What does the mappedBy attribute specify in JPA annotations?

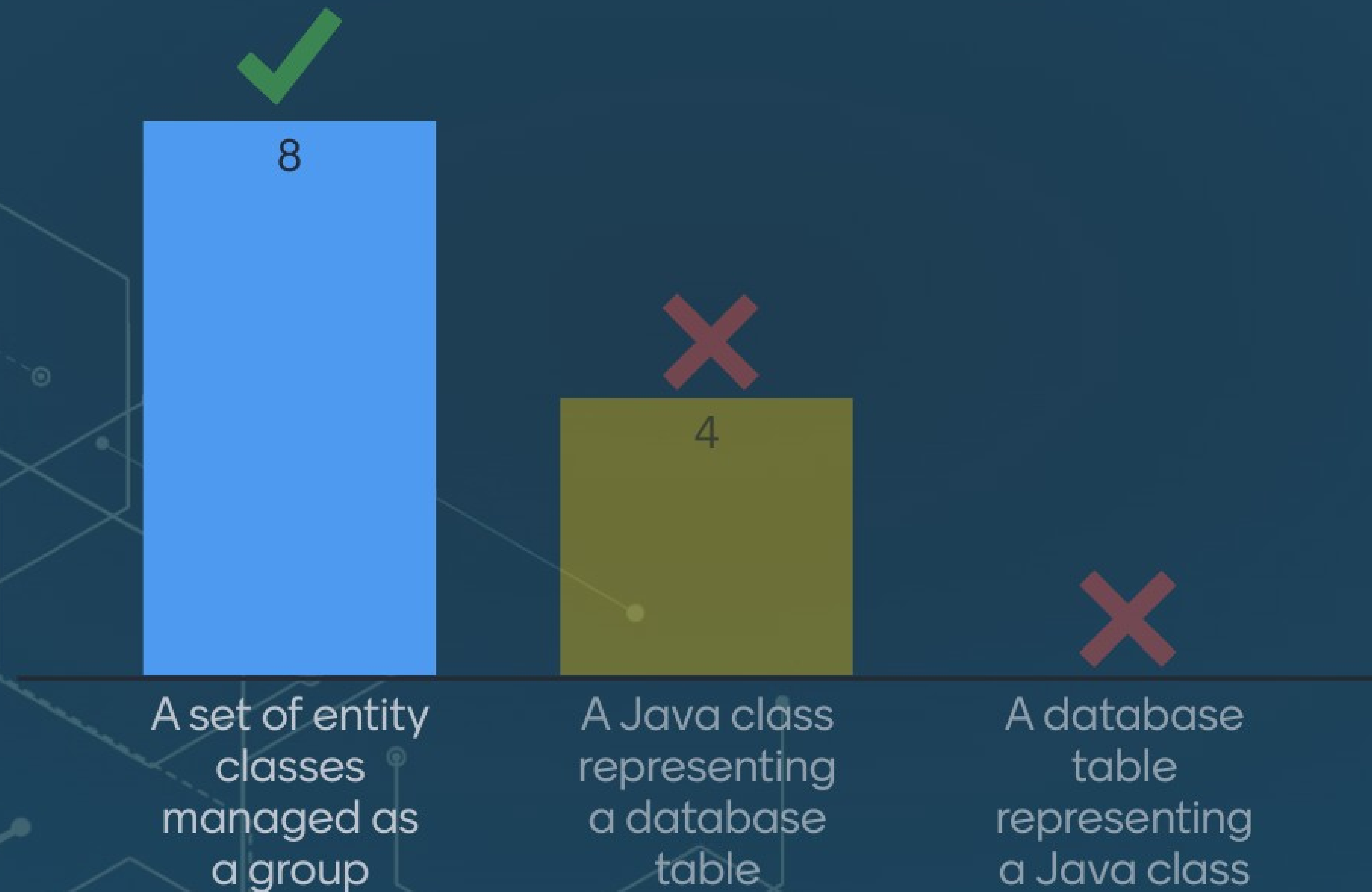


Imagine Employee has @OneToOne relation with Profile, and Employee is *owning* relation. Select correct statemet from below:

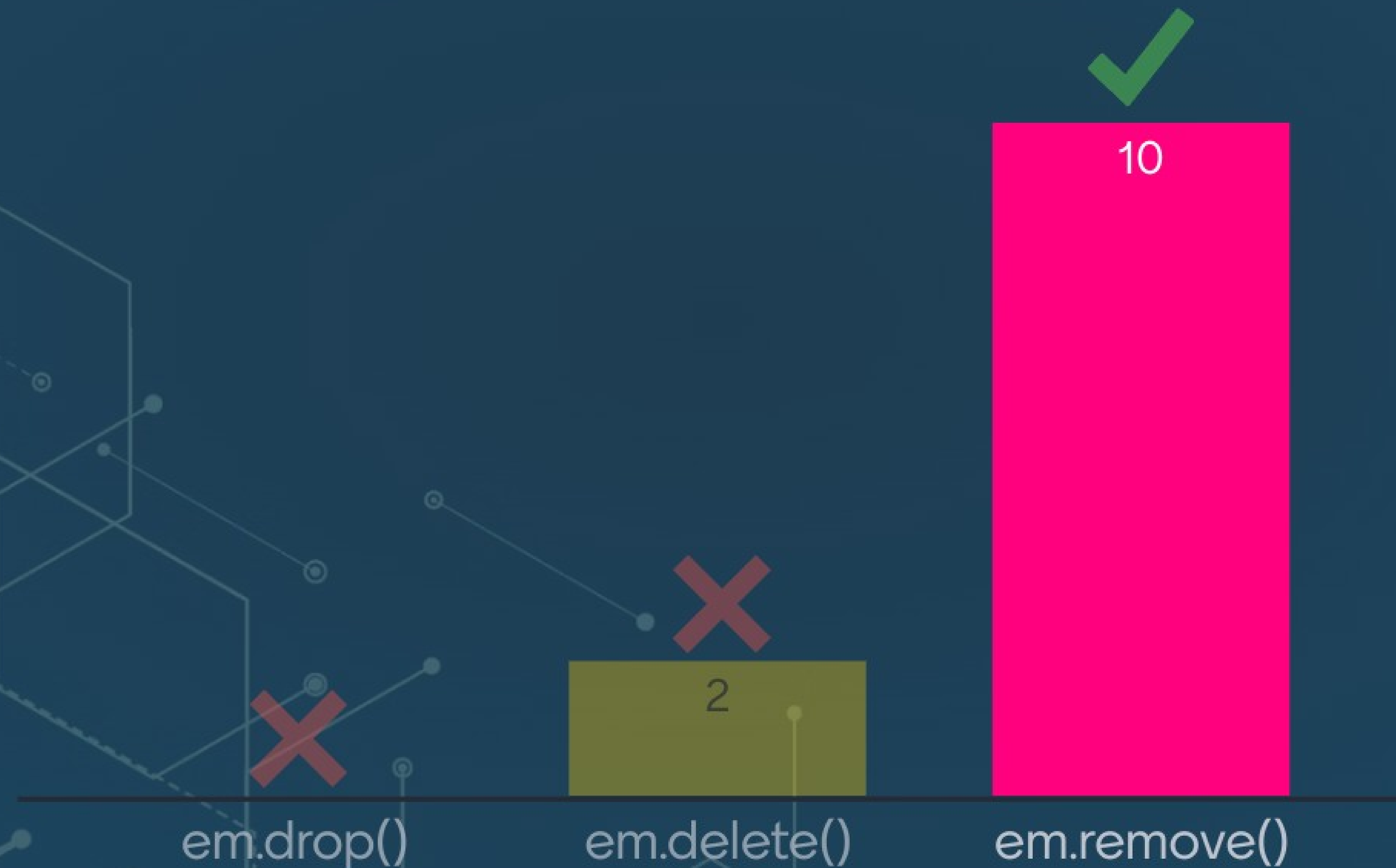




# What does a Persistence Unit represent in JPA?

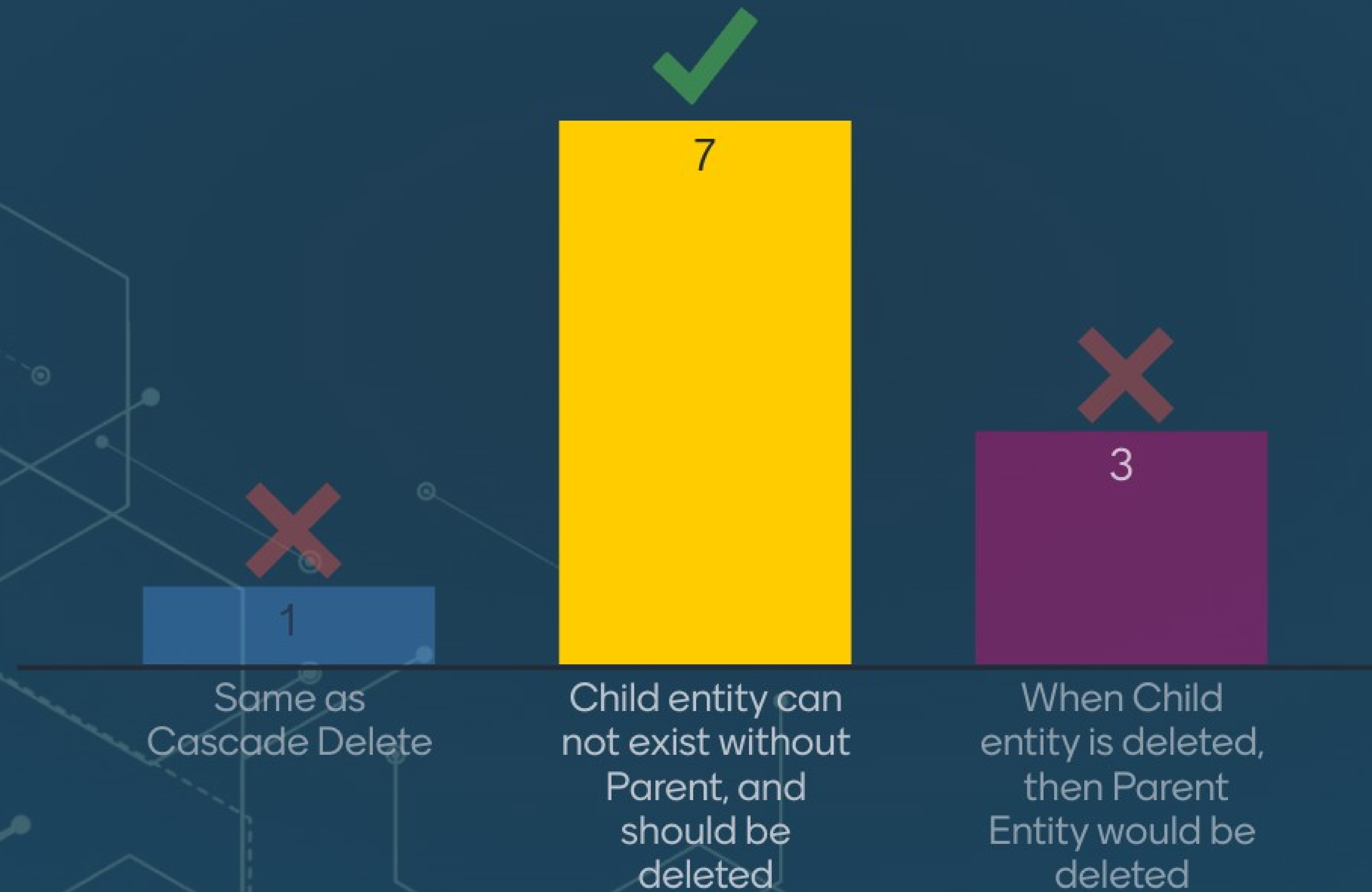


Which method is used to *delete* an entity from the database in JPA?

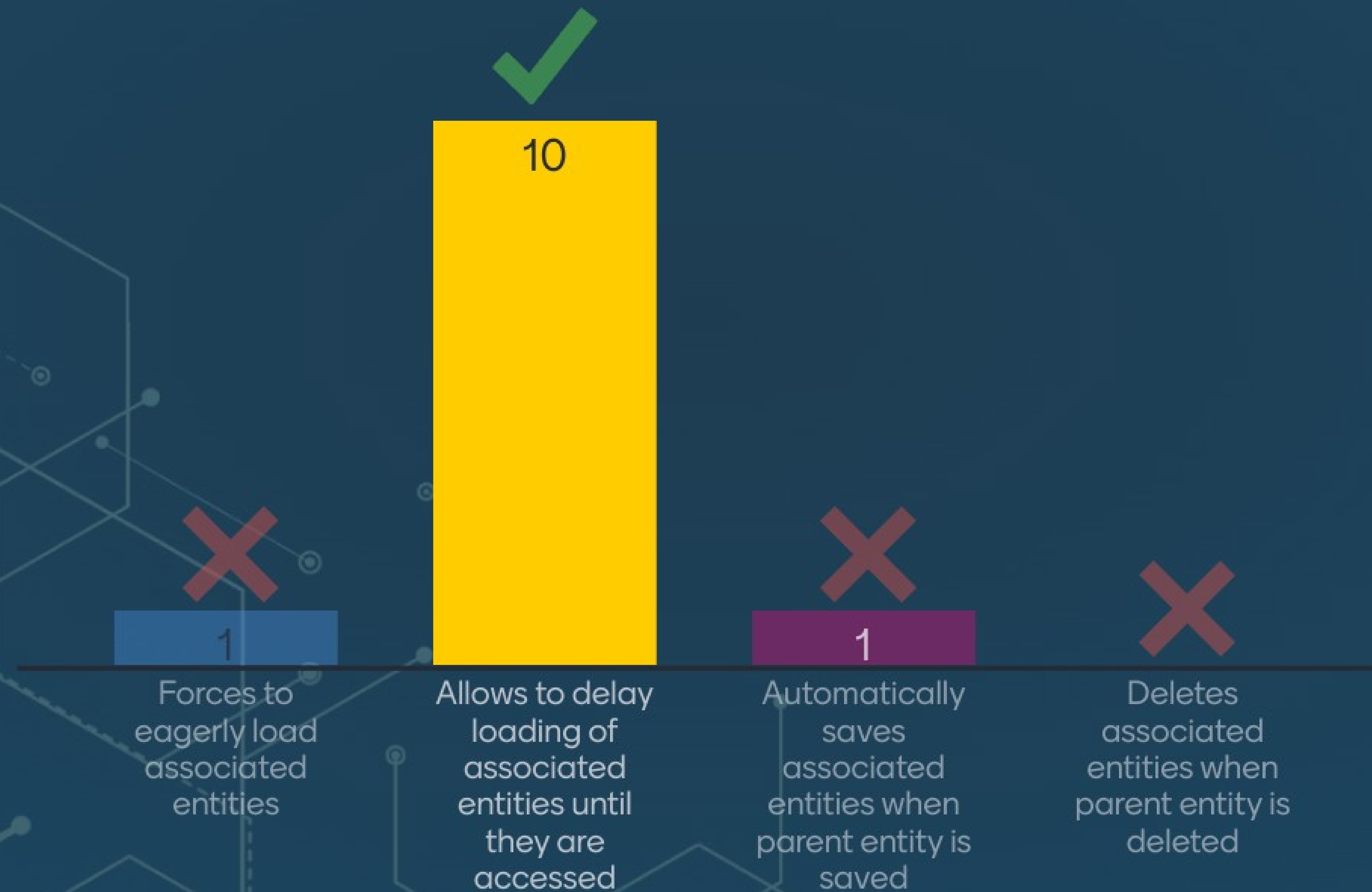




# What's the purpose of *orphanRemoval* flag?



# What does FetchType.LAZY do in JPA?





# Quiz leaderboard



# Discuss JPA practical task



# Next time: Normalization, Isolation, Transaction

Questions?

