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What are the 4 types of entity relationships?

@OneToOne, @OneToMany,  
@ManyToOne, @ManyToMany

Which JPA Relationship will  
require the use of a join table?

Many to Many relationships  
require the use of a join table.

What is the difference between a unidirectional relationship and a bidirectional relationship?

In unidirectional, the mapping is done one-way, meaning one side of the relationship will not know about the other. While bidirectional both sides will know about the relationship.

Which type of relationship is  
generally recommended,  
unidirectional or bidirectional?



Bidirectional - This allows you to navigate the object graph from either direction.

What two fetch types can be  
used with JPA?

Lazy and Eager

What do JPA Cascade Types  
do?

Cascade Types control how changes are cascaded from parent objects to child objects.

In JPA 2.1, what is the default  
Cascade Type?

None - JPA does not have a default Cascade Type.

What are the 6 available  
Cascade Types in JPA 2.1?



PERSIST, MERGE, REFRESH,  
REMOVE, DETACH, ALL

Can you embed a type in JPA  
for reuse?

Yes, JPA supports embeddable types. A good example is a Address type.

Does JPA support object  
inheritance?

Yes, in JPA classes can inherit  
from a super class.

What is Hibernate's default  
persistence strategy for inheritance?

Single Table - One table is created for the superclass and inheriting subclasses.

What is a disadvantage of the Single Table strategy for inheritance?



Single Table can lead to a lot of  
unused database columns.

What is a disadvantage of the Join Table strategy for inheritance?

Fetching subclass entities require a join to the table of the superclass.

Can you have JPA automatically  
update timestamp properties for  
audit purposes?

Yes, using `@PrePersist` or `@PreUpdate` within JPA. Or Hibernate specific `@CreationTimestamp` or `@UpdateTimestamp`

What does SQL stand for?

# Structured Query Language

What does DDL stand for?



# Data Definition Language

What does DML stand for?

# Data Manipulation Language

What is the difference between  
DDL and DML?

DDL is used to define database structures such as tables and indexes. While DML is used with data operations such as inserts and updates

What does Hibernate's ddl-auto  
property control?

The ddl-auto property controls what if any DDL operations Hibernate will perform on startup.

What are the 5 valid options for  
Hibernate's ddl-auto property?



none, validate, update, create,  
create-drop

When using an embedded database, which ddl-auto setting will Spring Boot set by default?

create-drop

When using an NON-embedded database, which ddl-auto setting will Spring Boot set by default?

none

What two files will Spring Boot use to initialize the database?

Spring Boot will look on the root classpath for the files `schema.sql` and `data.sql`.

