In which ways do the OO model and the Relational model conflict?

🡺OO has inheritance while Relational model does not have

Why would it be good to use the show\_sql hibernate configuration?

🡺 Hibernate has build-in a function to enable the logging of all the generated SQL statements to the console. You can enable it by add a “ show\_sql ” property in the Hibernate configuration file “hibernate.cfg.xml“. This function is good for**basic troubleshooting, and to see what’s Hibernate is doing behind**.

What are the 3 main components of Spring?

🡺Simplicity (POJO), Flexibility (DI), and Separation of Concern (AOP)

Why would you want to use Spring over standardized JavaEE EJBs?

🡺 There are many projects under spring eco-system that easily integrate with spring in modular fashion

What are the four different states of the entity lifecycle?

🡺transient, managed, detached and removed

What are the similarities and the differences between saveOrUpdate() and merge()?

🡺SaveOrUpdate() will save record and generate Identity if identity is null or else update the record. While merge will update the entity in managed state of the persistence context from the entity in unmanaged/detached state

What are the seven different types of associations?

🡺One to one One to One (BI)

One to many One to Many /Many to One (BI)

Many to One

Many to Many Many To Many (BI)

Why would anyone want to use a join table in a uni-directional one-to-many association?

🡺To avoid null in the ref column

What does it mean to have inherent order?

🡺Natural order that is 1 to n-1

What are the characteristics of a Map?

🡺A map cannot contain duplicate keys and one key can map to at most one value.

What are the advantages and disadvantages of the joined table strategy?

🡺Adv: normalized table, Dis: slow polymorphic query and multiple operation for insert or update

Why should we not specify @Id on sub classes?

🡺it refers identity of superclass

What is a value class?

🡺Classes devoid of @Id

Why do we need to implement hashcode() and equals() when using @EmbeddedId?

🡺To ensure that the generated composite Id is primary key

If a person can have many cars; write an HQL query that selects everyone that owns a car that has color = silver.

🡺

Assuming we have a ‘Person’ class with a ‘name’ property that is mapped to `Student` table with a `FullName` column. What would be the HQL query to select everyone whose name starts with an ‘M’?

🡺

How does optimistic concurrency work?

🡺It works differently under different scenario for ex, in version control, Hibernate check for version column before commit. If version number is same as one at the time of loading then updates else throw StaleObjectStateException. Similar there is different mechanim for Timestamp column.

What are application transactions?

🡺Application transactions are give the flavor of isolation when series of actions to be taken at application level. It gives atomic flavor for a bulk of actions rather than auto-committing in every action

Describe the difference between batch fetching and sub select optimization.

Why doesn’t second level caching fix bad fetching strategies?

When a bean is declared with scope = prototype does it load eagerly or lazily?

🡺Lazy

Specifying a destroy method is not enough for Spring to use it, what else is needed?

🡺Application Context should be close() for executing

What are the disadvantages of setter injection?

🡺

Why is annotation configuration called ‘classpath scanning’?

* What is a pointcut expression?
* What is a JoinPoint object? How does it differ from a ProceedingJoinPoint?

What problems arise when we use the session per operation anti-pattern?

Why do we have to pre-cache(initialize) data before giving it to the view when using the thread local pattern?

Why don’t we need Hibernate Uitls when using spring?

What are the advantages of spring OpenSessionInView filter?

* Write a Cron Trigger that has a delay of 30 seconds, and then fires every 10 seconds, Friday afternoon at 2:45pm
* What if we want it to start at 2:45pm and continue firing every 10 seconds until 2:50pm?