**Hibernate Interview Question Bank**

**Fresher Academy**

**Hibernate**

1. What are ORM Frameworks?

* It is short for Object Relational Mapping
* Technique for converting data between relational databases and object oriented programming languages

1. What is Hibernate Framework?
2. What are the core interfaces of Hibernate?

* Configuration
* SessionFactory
* Session
* Query
* Criteria
* Transaction

1. What are the important benefits of using Hibernate Framework?
2. Name some important annotations used for Hibernate mapping?

* @Entity, @Table
* @Column, @Cascade, @Generatedvalue
* Anotation for realtional mapping
* @Embedded and @Embeddable …

1. Descibe How to configure work with hibernate step by step ?

* Add dependency hibernate
* Create Entity
* Create hibernate.cfg.xml and fulfill important information such as Conection properties, Dialect, hbm2ddl, assign entity to mapping …

1. Hibernate SessionFactory is thread safe?

* Yes, SessionFactory is Thread Safe

1. What is SessionFactory and how to create it in your application ?

* It is the factory used to create Session.
* Read file hibernate.cfg.xml to create Configuration object and after that create SessionFactory from Configuration object.

1. Explain the general flow of Hibernate communication with RDBMS?
2. What is Hibernate Session and how to get it?

* This is the core interface used to perform database operations
* We can execute HQL queries, SQL native queries and create criteria using Session object
* Lifecycle of a session is bound by the beginning and end of a transaction

1. What is difference between openSession and getCurrentSession?

* If we talk about SessionFactory.openSession()
* It always create new Session object.
* You need to explicitly flush and close session objects.
* In single threaded environment it is slower than getCurrentSession.
* You do not need to configure any property to call this method.
* And If we talk about SessionFactory.getCurrentSession()
* It creates a new Session if not exists, else use same session which is in current hibernate context.
* You do not need to flush and close session objects.
* In single threaded environment it is faster than openSession.
* You need to configure additional property.

1. What is difference between Hibernate Session get() and load() method?
2. What is the difference between update and merge method?
3. How to make entity from a class
4. What is hibernate caching? Explain Hibernate first level cache?

* Hibernate Cache can be increase performance if used correctly.
* reduce the number of database queries.
* Hibernate first level cache is associated with the Session object
* Second level cache is assiciated with SessionFactory object.

1. How to configure Hibernate Second Level Cache using EHCache?

* Add dependency hibernate-ehcache
* Configuration in hibernate.cfg.xml
* Create EHCache configuration file
* Create Entity with @Cache anotation and caching strategy

1. What are different states of an entity bean?

* Transient
* Persistent
* Detached

1. What will happen if we don’t have no-args constructor in Entity bean?

* Hibernate will fail to instantiate it and you will get HibernateException.

1. What are the collection types in Hibernate?

* Bag
* Set
* List
* Array
* Map

1. Can we execute native sql query in hibernate?

* Yes, We can.
* @namednativequery
* SQLQuery

1. What is the benefit of Hibernate Criteria API?

* API provide aggregate functions
* Can be used for join queries by joining multiple tables
* we can add Restrictions for results
* It provide addOrder() method used to ordering results

1. How to implement relationships in hibernate?

* Using xml or Anotation

1. What is cascading and what are different types of cascading?

* Using cascading to define how the different operations will affect the other entity

1. Which design patterns are used in Hibernate framework?

* Domain Model Pattern
* Data mapper
* Proxy for lazy loading
* Factory in SessionFactory

1. What are best practices to follow with Hibernate framework?
2. How to make a immutable class in hibernate?
3. What is difference between Hibernate Session get() and load() method?
4. What is difference between Hibernate save(), saveOrUpdate() and persist() methods?
5. How many ways to call Stored Procedured in Hibernate ?