Spring-Hibernate Training Program Session 6

Hibernate Object States

- Following are the States of Objects in relation to Hibernate
 - Transient: new Object, not associated with Hibernate Session.
 - Persistent : Persistent, has Identifier, associated with an open Hibernate Session.
 - Deteached: Persistent, has Identifier, NOT associated with an open Hibernate Session.

Making objects persistent

- save()
- update()
- saveOrUpdate()
- merge()
- persist()

Loading objects

- load(): unrecoverable exception if not found.
- get(): returns null if not found.
- refresh(): re-load the object and its collections.
- Fetching Strategies
 - Join Fetchnig: Single Select. Outer Join
 - Select Fetching : 2 select queries. Lazy.
 - Subselect Fetching: 1 select and 1 subselect query. Lazy.
 - Batch Fetching : limit the number of instances.

Modifying Objects

- Persistent Objects
 - session.load()
 - session.flush()
- Detached Objects
 - session.update(): not applicable in the loading session.
 - session.merge(): session state agnostic.
 - session.lock(): reassociate unmodified object.

Deleting Objects

• delete() - Delete from database. Application can still have a reference.

Cascading Operations

- create
- merge
- delete
- save-update
- evict
- replicate
- lock
- refresh

Querying Objects

- org.hibernate.Query
- list()
- iterate()
- tuples
- Scalar results
- Pagination. setFirstResult(), setMaxResults()

Read-only Entities

- Only Persistent entities can be made read-only.
- Entities of immutable class
- Session.setReadOnly(true);
- Query.setReadOnly(true);
- Criteria.setReadOnly(true);

HQL

- Hibernate uses a powerful query language (HQL) that is similar in appearance to SQL. Compared with SQL, however, HQL is fully object-oriented and understands notions like inheritance, polymorphism and association.
- Case Insensitive
- Simplest query is "from Author"

End of Spring – Hibernate Training Program Session 6