Hibernate

Hibernate is an one of the implementation of ORM tool provided by Jboss.

Database table   :   relation in database.

Employee

Id(PK)   name   salary

Now we need to create java bean class that class map to table. In orm that java bean class is known as entity class.

Old version in hibernate we were/are using xml file to do the mapping

Table must be map to java bean class

All variable must be map to all columns with their data types.

The column which contains primary key we need to mentation in xml file.

@Entity annotation on java bean class. this annotation is use to map table using ORM.

@Table annotation: this annotation is use to map to table if java bean or entity class name and table may be different.

@Id this annotation we need to on that property. That property must be map to primary key columns.

@Column : this annotation is use to map with variable and column name if both have different names.

In hibernate we write database connection details in <mark>hibernate.cfg.xml</mark> ie configuration.

This file hold the database details like driver name, url, username, password and mapping class ie entity class details.

Hibernate provided pre defined class ie

Configuration which help to load the hibernate.cfg.xml file which contains

Database details, dilates class and mapping file information.

<mark>SessionFactory</mark> : it is an interface provided by hibernate which provide set of method which help to create session object. SessionFactory is equal to Connection in jdbc.

<mark>Session</mark> : Session is an interface which provide set of method which help to do some operation on entity class like save, delete, update and find etc.

Session is like a Statement or PreparedStatement in jdbc.

Session object we can create with help of SessionFactory reference.

If we do any DML operation using jdbc by default they are auto commit.

In jdbc if we want to transaction concept then we need to disable auto commit option using <mark>con.setAutoCommit(false);</mark>

Then after executeupdate("DML Query ")

You can use <mark>con.commit() or con.rollback();</mark>

If we do any DML operation using ORM tool like hibernate or jpa it is not by default auto commit.

If we want to use transaction in hibernate. Hibernate provided pre defined api it Transaction.