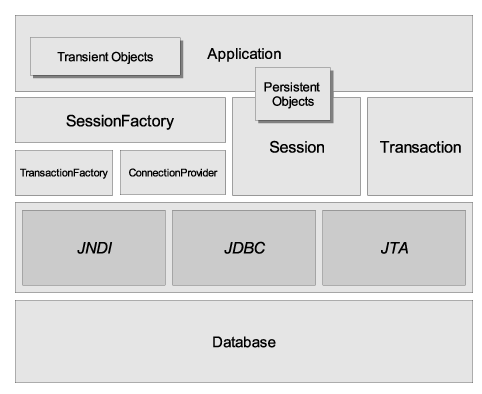
**Hibernate**

1. Hibernate is a ORM (Object Relational Mapping) tool.
2. Hibernate Used in the persistence Layer.
3. Hibernate Framework is the implementation of JPA standard.
4. Hibernate Used for a DB connection.
5. Hibernate handles all the Database check exception internally and convert it into unchecked exception.
6. Hibernate can generate DDL, DML queries internally and also executes the queries.
7. Hibernate Support caching techniques which help to make DB interaction faster. Hibernate internally support Primary Cache.
8. You can integrate Secondary cache inside Hibernate.
9. Hibernate supports collection mapping.

**Hibernate Architecture**



**SessionFactory :**

1. SessionFactory produces an Object of Sessions.
2. Once sessionFactory Object is linked with a one database at a time, If you are using multiple database in the application then you needs to create multiple SessionFacotry

**Session:**

1. Session Objects are consider as a Connection Object.
2. One session multiple transactions.
3. Session Objects are used to execute the queries and get result back into a java application.

**Transaction**

1. One transaction can have a multiple queries.
2. You can group a query into a single transaction so that you can either commit the transaction or rollback the truncation.

**Download Hibernate Jar File (5.5.7)**

[**https://hibernate.org/orm/releases/5.5/**](https://hibernate.org/orm/releases/5.5/)

**Steps To Add Jar file into Core java application**

1. Right click on Core Java Application
2. Go To “Build Path” -> Select “Configure Build Path…”
3. Select “Libraries” tab.
4. Select “Classpath” option
5. Click on “Add External Jars..” button.
6. Search for hibernate jar file
7. Select All the jar file from the path “<YourFolderPath>/hibernate-release-5.5.7.Final\lib\required”
8. Click On “Apply and Close” button

**Steps to Create hibernate configuration XML file**

1. Right Click on src
2. Go To “New” -> Select “Other…”
3. Search for “XML” option in Wizard
4. Select “XML File” option from the list
5. Provide any file name mostly prefer “hibernate.cfg.xml”
6. Click on “Next” -> “Finish” button