Object relational mapping

Transient objects to persistence objects

Productivity

Maintainability

Performance

Vendor independence

Components

Java persistence api

Query lang

Org mapping database

Hibernate in java app

Architecture

**Application**

**Persistent object**

Hibernate.cfg HIBERNATE XXXX.hbm

DATABASE

STEPS

1.crate a mysql db called test

2.create a dynamic web application

Copy thw require lib

Write apojo class representing the table

Hbm

Cfg

**ISOLATION LEVELS**

Read uncommitted

Read\_commited

Repeatable\_read

Serilizable

CORE INTERFACES

Session

Session factory

Configuration

Transaction interface

Query

Criteria

SessionFActory

Bulidsessionfactory()

Configuration configure() throws hibernateexception

CONFIGURATIN files: <hibernate-configuration><sesslion-factory>

Connection.url

Conncection.username

Con.pass

Conn.hbm2ddl

Show \_sql

Hibernate.connection.autocommit is **false** by default

Generators

Hilo

Assigned

Increment

Sequence

Uuid etc.

**Steps**

Create the pojo class

Create the mapping file(properities mapping the table column)

Create the configuration file(Data source)

Sesstinfactory

Session

Transaction is success then **commit**. if failure that time we call **rollback**

**MYSQL**

Create database eventdb;

Show datbases;

1.create java project

2.create packages in project

3.create pojo classes(TrainingRoom,)

4.create the mapping file(trainingroom.hbm.xml)

5.create the configuration file(hibernate.cfg.xml)

6.write the utility class(hibernateUtil): in this class to create a method of sessionfactory(GetFactory)

And then return the configuration method in configure method in that buildsessionfactory

7.write the dao class(RoomManager): in this class to create a method in that method to create the pojo class object

Then open the session .

Save session

Gettransaction

8.write the test class(TestApp): create the object for dao class and then create the object for pojo class

Then set the values

**2 exceptions:hibernateException and mappingException**

9.in mysql use eventdb;

Then select \* from Room;

Created table will showing.

**CURD OPERATIONS:**

**1.create**

**2.insert**

**3.delete**

**4.update**

**Transient ------🡪 session.save --🡪 persistent**

**Persistent-----🡪session.close---🡪detached(session is closed changes are not reflected)**

**Detached----🡪session.lock or update--🡪persistent.**

**Example: <hibernate-mapping>**

**<class name=”AccAcc” table=”accacc”?**

**<composite-id name=”id” class=”string”>**

**<key-property name=”accttype”>**

**.**

**.**

**.**

**</composite-id>**

**</class>**

**Composite is for more than 1 primary key**

**1.create the event and eventkey classes(pojo classes) by using annotations**

**2.create the evnt manager class.**

**3.to write the configuration file(mapping class)**

**4.**