We can store system date and time in DB table along with object using “timestamp feature” whenever an object is inserted . We can’t use both “Time stamp feature “ and “versioning” featue in single hibernate application.

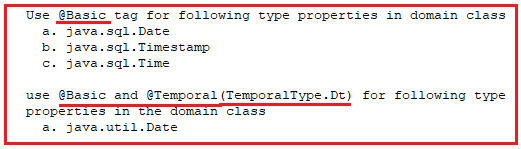
Follow following steps , while developing hibernate application.

Step1: we declare folloiwng data type property in domain class.

1. Java.sql.Timestamp
2. Java.sql.Date
3. Java.sql.Time
4. LocalDate
5. LocalTime
6. LocalDateTime
7. Java.util.Date

Step2: Map this property to DB table column using following xml tag in mapping file. Or annotations.





Example:- This program demonstrates inserting date and time.

**Annotated Class**

**package** com.hib.domain;

**import** java.io.Serializable;

**import** java.sql.Date;

**import** java.sql.Time;

**import** java.sql.Timestamp;

**import** javax.persistence.Basic;

**import** javax.persistence.Column;

**import** javax.persistence.Entity;

**import** javax.persistence.Id;

**import** javax.persistence.Table;

**import** javax.persistence.Temporal;

**import** javax.persistence.TemporalType;

@Entity

@Table(name="student")

**public** **class** Student **implements** Serializable{

@Id

@Column(name="sid")

**private** **int** sid;

@Column(name="sname")

**private** String sname;

@Basic

**private** Date dob;

@Basic

**private** Timestamp tob;

@Basic

@Temporal(TemporalType.***DATE***)

**private** java.util.Date dor;

@Basic

@Temporal(TemporalType.***TIME***)

**private** java.util.Date tor;

**public** **int** getSid() {

**return** sid;

}

**public** **void** setSid(**int** sid) {

**this**.sid = sid;

}

**public** String getSname() {

**return** sname;

}

**public** **void** setSname(String sname) {

**this**.sname = sname;

}

**public** Date getDob() {

**return** dob;

}

**public** **void** setDob(Date dob) {

**this**.dob = dob;

}

**public** Timestamp getTob() {

**return** tob;

}

**public** **void** setTob(Timestamp tob) {

**this**.tob = tob;

}

**public** java.util.Date getDor() {

**return** dor;

}

**public** **void** setDor(java.util.Date dor) {

**this**.dor = dor;

}

**public** java.util.Date getTor() {

**return** tor;

}

**public** **void** setTor(java.util.Date tor) {

**this**.tor = tor;

}

}

**HibernateMappingFile**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!DOCTYPE hibernate-configuration PUBLIC

"-//Hibernate/Hibernate Configuration DTD 3.0//EN"

"http://www.hibernate.org/dtd/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

<session-factory>

<property name=*"hibernate.connection.driver\_class"*>oracle.jdbc.OracleDriver</property>

<property name=*"hibernate.connection.url"*>jdbc:oracle:thin:@localhost:1521:xe</property>

<property name=*"hibernate.connection.username"*>system</property>

<property name=*"hibernate.connection.password"*>tiger</property>

<property name=*"hibernate.dialect"*>org.hibernate.dialect.Oracle10gDialect</property>

<mapping class=*"com.hib.domain.Student"*/>

</session-factory>

</hibernate-configuration>

**ClientApplication:Test.java**

package com.hib.domain;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.InputStream;

import java.sql.Blob;

import java.sql.SQLException;

import java.text.SimpleDateFormat;

import org.hibernate.Hibernate;

import org.hibernate.SessionFactory;

import org.hibernate.Transaction;

import org.hibernate.cfg.Configuration;

import org.hibernate.classic.Session;

public class Test {

public static void main(String[] args)throws SQLException,FileNotFoundException {

try {

Configuration cfg=new Configuration();

cfg.configure("com/hib/domain/hibernate.cfg.xml");

SessionFactory sf=cfg.buildSessionFactory();

Session s=sf.openSession();

Student s1=new Student();

s1.setSid(1);

s1.setSname("suma");

s1.setDob(java.sql.Date.valueOf("2023-08-03"));

s1.setTob(java.sql.Timestamp.valueOf("2023-08-03 12:00:00"));

s1.setDor(new SimpleDateFormat("dd-mm-yyyy").parse("06-11-1981"));

s1.setTor(new SimpleDateFormat("yyyy-mm-dd hh:mm:ss").parse("1981-11-06 12:07:11"));

Transaction t1=s.beginTransaction();

int pk=(Integer)s.save(s1);

if(pk==1) {

System.out.println("Record Inserted");

}

else

{

System.out.println("Record not inserted");

}

t1.commit();

}

catch(Exception e) {

e.printStackTrace();

}

}

}

Output:-

