



Inheritance Mapping Table Per Hierarchy Annotation

Project: inhm_tph_ac.....	1
Database Structure	1
hibernate.cfg.xml	2
Employee.java.....	2
Regular_Employee.java.....	4
Contract_Employee.java.....	5
inh_map_tph.java	7
hibernate.hbm.xml	9

Project: inhm_tph_ac

Database Structure

```
create database db_emp_in_map
use db_emp_in_map
CREATE TABLE `employee` (
  `id` int(11) NOT NULL AUTO_INCREMENT PRIMARY key,
  `type` varchar(20) DEFAULT NULL,
  `name` varchar(20) DEFAULT NULL,
  `salary` float DEFAULT NULL,
  `bonus` float DEFAULT NULL,
  `pay_per_hour` float DEFAULT NULL,
  `contract_duration` varchar(20) DEFAULT NULL
)
commit
```



[hibernate.cfg.xml](#)

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

<!DOCTYPE hibernate-configuration PUBLIC "-//Hibernate/Hibernate Configuration DTD 3.0//EN"
"http://hibernate.sourceforge.net/hibernate-configuration-3.0.dtd">

<hibernate-configuration>

<session-factory>

    <property name="hibernate.dialect">org.hibernate.dialect.MySQLDialect</property>

    <property name="hibernate.connection.driver_class">com.mysql.jdbc.Driver</property>

    <property
name="hibernate.connection.url">jdbc:mysql://localhost:3306/db_emp_in_map?zeroDateTimeBeh
avior=convertToNull</property>

    <property name="hibernate.connection.username">root</property>

    <mapping class="inhm_tph_ac.Employee"/>

    <mapping class="inhm_tph_ac.Regular_Employee"/>

    <mapping class="inhm_tph_ac.Contract_Employee"/>

</session-factory>

</hibernate-configuration>
```

[Employee.java](#)

```
package inhm_tph_ac;
```

```
/*
```

```
* To change this license header, choose License Headers in Project Properties.
```

```
* To change this template file, choose Tools | Templates
```

```
* and open the template in the editor.
```

```
*/
```

```
/**
```

```
*
```



* @author Administrator

*/

@Entity

@Table(name = "employee")

@Inheritance(strategy=InheritanceType.SINGLE_TABLE)

@DiscriminatorColumn(name="type",discriminatorType=DiscriminatorType.STRING)

@DiscriminatorValue(value="employee")

public class Employee {

@Id

@GeneratedValue(strategy=GenerationType.AUTO)

@Column(name = "id")

private int id;

@Column(name = "name")

private String name;

public void setId(int id) {

 this.id = id;

}

public int getId() {

 return id;

}

public void setName(String name) {

 this.name = name;

}

public String getName() {



SHIJU THOMAS M.Y DEPT. OF COMPUTER SCIENCE RCSS

```
        return name;
    }

}
```

Regular_Employee.java

```
package inhm_tph_ac;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Administrator
 */

@Entity
@DiscriminatorValue("regularemployee")
public class Regular_Employee extends Employee{

    @Column(name="salary")
    private float salary;

    @Column(name="bonus")
    private int bonus;

    public void setSalary(float salary) {
```



SHIJU THOMAS M.Y
DEPT. OF COMPUTER SCIENCE
RCSS

```
this.salary = salary;
}

public float getSalary() {
    return salary;
}

public void setBonus(int bonus) {
    this.bonus = bonus;
}

public int getBonus() {
    return bonus;
}
}
```

[Contract_Employee.java](#)

```
package inhm_tph_ac;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author Administrator
 */
```



SHIJU THOMAS M.Y
DEPT. OF COMPUTER SCIENCE
RCSS

```
*/  
@Entity  
@DiscriminatorValue("contractemployee")  
public class Contract_Employee extends Employee{  
    @Column(name="pay_per_hour")  
    private float pay_per_hour;  
    @Column(name="contract_duration")  
    private String contract_duration;  
    public void setPay_per_hour(float pay_per_hour) {  
        this.pay_per_hour = pay_per_hour;  
    }  
  
    public float getPay_per_hour() {  
        return pay_per_hour;  
    }  
  
    public void setContract_duration(String contract_duration) {  
        this.contract_duration = contract_duration;  
    }  
  
    public String getContract_duration() {  
        return contract_duration;  
    }  
}
```



[inh_map_tph.java](#)

```
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

package inhm_tph_ac;

import org.hibernate.Session;
import org.hibernate.SessionFactory;
import org.hibernate.Transaction;
import org.hibernate.boot.registry.StandardServiceRegistry;
import org.hibernate.boot.registry.StandardServiceRegistryBuilder;
import org.hibernate.cfg.AnnotationConfiguration;

/**
 *
 * @author Administrator
 */
public class Inh_Map_TPH {

    /**
     * @param args the command line arguments
     */
    private static SessionFactory factory;

    public static void main(String[] args) {
        // TODO code application logic here
    }

    try
    {
        factory = new Configuration().configure().buildSessionFactory();
    }
}
```



```
}  
catch (Throwable ex)  
{  
    System.err.println("Failed to create sessionFactory object." + ex);  
    throw new ExceptionInInitializerError(ex);  
}  
Session session = factory.openSession();  
Transaction tx = null;  
Transaction t=session.beginTransaction();  
  
Employee e1=new Employee();  
e1.setName("asweee");  
  
Regular_Employee e2=new Regular_Employee();  
e2.setName("rrtyyuu");  
e2.setSalary(50000);  
e2.setBonus(6);  
  
Contract_Employee e3=new Contract_Employee();  
e3.setName("iuiuiu");  
e3.setPay_per_hour(1000);  
e3.setContract_duration("20 hours");  
  
session.persist(e1);  
session.persist(e2);  
session.persist(e3);  
  
t.commit();  
session.close();
```




```
System.out.println("success");  
  
System.exit(0);  
  
}  
  
}
```

hibernate.hbm.xml

```
<hibernate-mapping>  
  
  <class name="inh_map_tph.Employee" table="employee">  
  
    <id name="id">  
  
      <generator class="increment"></generator>  
  
    </id>  
  
  
    <discriminator column="type" type="string"></discriminator>  
  
    <property name="name"></property>  
  
  
    <subclass name="inh_map_tph.Regular_Employee" discriminator-value="reg_emp">  
  
      <property name="salary"></property>  
  
      <property name="bonus"></property>  
  
    </subclass>  
  
  
    <subclass name="inh_map_tph.Contract_Employee" discriminator-value="con_emp">  
  
      <property name="pay_per_hour"></property>  
  
      <property name="contract_duration"></property>  
  
    </subclass>  
  
  </class>  
  
</hibernate-mapping>
```