



Inheritance Mapping Table per Sub Class

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Project: inh_map_tpssc

Database Structure

```
create database db_emp_in_map

use db_emp_in_map

create table empj(id integer not null AUTO_INCREMENT primary key,
name varchar(40))

create table regular_employeej( eid integer not null REFERENCES
empj(id), salary float, bonus int)

create table contract_employeej( eid integer not null REFERENCES
empj(eid), pay_per_hour float, contract_duration varchar(40))

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">
```



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```
<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 resource="inh_tpssc/hibernate.hbm.xml"/>

</session-factory>

</hibernate-configuration>
```

[Employee.java](#)

```
package inh_map_tph;
```

```
/*
```

```
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```

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```

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

```
*/
```

```
/**
```

```
 *
```

```
 * @author Administrator
```

```
*/
```

```
public class Employee {
```

```
    private int id;
```

```
    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() {  
    return name;  
}
```

```
}
```

[Regular_Employee.java](#)

```
package inh_map_tph;
```

```
/*
```

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```

```
*/
```

```
/**
```

```
 *
```



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* @author Administrator

*/

```
public class Regular_Employee extends Employee {
```

```
    private float salary;
```

```
    private int bonus;
```

```
    public void setSalary(float salary) {
```

```
        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 inh_map_tph;
```

```
/*
```

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```



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*/

/**

*

* @author Administrator

*/

```
public class Contract_Employee extends Employee{  
    private float pay_per_hour;  
    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

```
/*
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 */
package inh_map_tph;

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  
AnnotationConfiguration().configure().addAnnotatedClass(Employee.class).buildSessionFactory();  
} catch (Throwable ex) {  
    System.err.println("Failed to create sessionFactory object." + ex);  
    throw new ExceptionInInitializerError(ex);  
}  
  
Session session=factory.openSession();  
  
Transaction t=session.beginTransaction();  
  
Employee e1=new Employee();  
e1.setName("e1");  
  
Regular_Employee e2=new Regular_Employee();  
e2.setName("e2");  
e2.setSalary(50000);  
e2.setBonus(5);  
  
Contract_Employee e3=new Contract_Employee();  
e3.setName("e3");  
e3.setPay_per_hour(1000);  
e3.setContract_duration("15 hours");  
  
session.persist(e1);  
session.persist(e2);  
session.persist(e3);  
  
t.commit();
```



```
session.close();  
  
System.out.println("success");  
  
}  
  
}
```

[hibernate.hbm.xml](#)

```
<hibernate-mapping>  
  
<class name="inh_tpssc.Employee" table="empj">  
    <id name="id">  
        <generator class="increment"/>  
    </id>  
    <property name="name"/>  
    <joined-subclass name="inh_tpssc.Regular_Employee" table="regular_employeej">  
        <key column="eid"></key>  
        <property name="salary"/>  
        <property name="bonus"/>  
    </joined-subclass >  
    <joined-subclass name="inh_tpssc.Contract_Employee" table="contract_employeej">  
        <key column="eid"></key>  
        <property name="pay_per_hour"/>  
        <property name="contract_duration"/>  
    </joined-subclass >  
</class></hibernate-mapping>
```