**Mybatis**

1. **Mybatis的简单实现**
2. **添加jar包以及数据库连接包**
3. **编写实体以及对应的数据库**
4. **编写util用来获取SqlSession**

**public** **class** SqlSessionFactoryUtil {

**private** **static** SqlSessionFactory *sFactory*;

**public** **static** SqlSessionFactory **getSqlSessionFactory**(){

**if** (*sFactory*==**null**) {

InputStream **inputStream**=**null**;

**try** {

inputStream=Resources.*getResourceAsStream*("mybatis-config.xml");

*sFactory*=**new** SqlSessionFactoryBuilder().build(inputStream);

} **catch** (IOException **e**) {

e.printStackTrace();

}

}

**return** *sFactory*;

}

**public** **static** SqlSession **openSession**() {

**return** *getSqlSessionFactory*().openSession();

}

1. **编写数据库连接配置属性文件jdbc.properties**

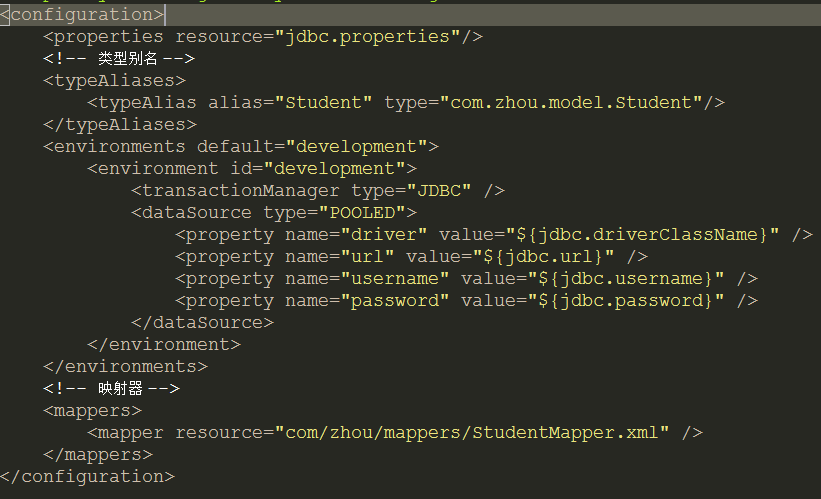
**jdbc.driverClassName=com.mysql.jdbc.Driver**

**jdbc.url=jdbc:mysql://localhost:3306/db\_mybatis**

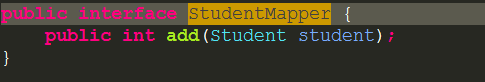
**jdbc.username=root**

**jdbc.password=123456**

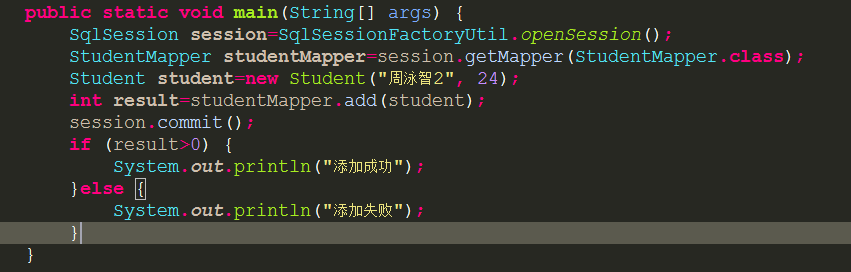
1. **编写mybatis-config.xml配置文件**



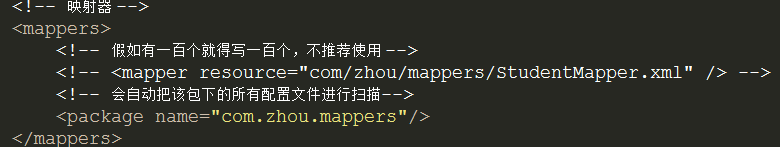
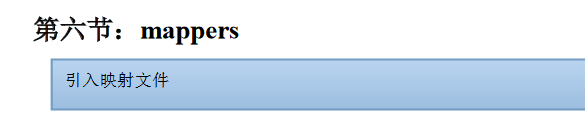
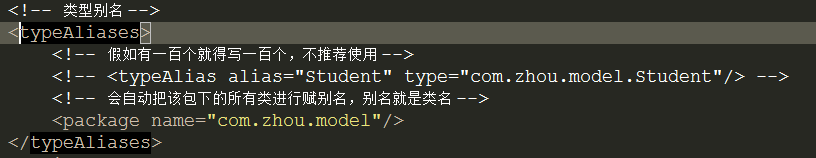
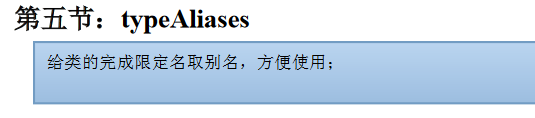
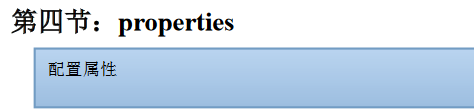
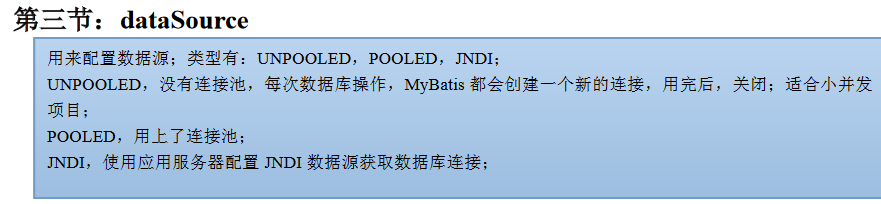
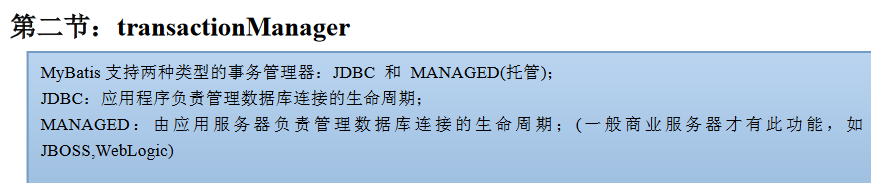
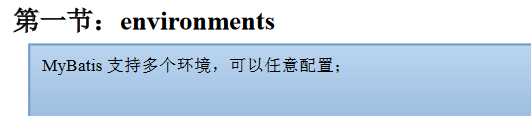
1. **编写mapper接口以及对应的.xml文件**



1. **编写service层**



1. **Mybatis项目配置**

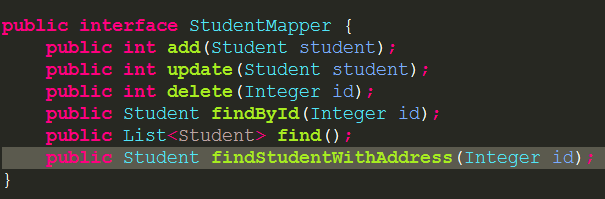


**引入Log4j支持的jar包，使用时获取Logger**

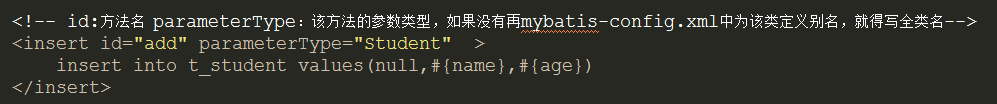
Logger *logger*=Logger.*getLogger*(StudentTest.**class**)

*logger*.info("添加成功");

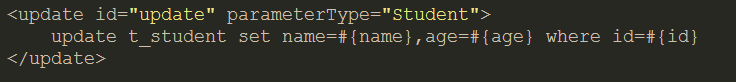
1. **使用XML配置SQL映射配置**



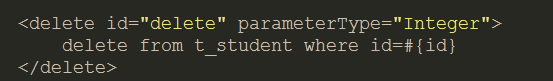
**Insert语句**



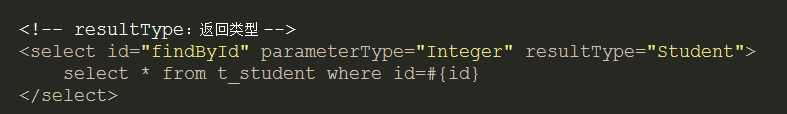
**Update语句**



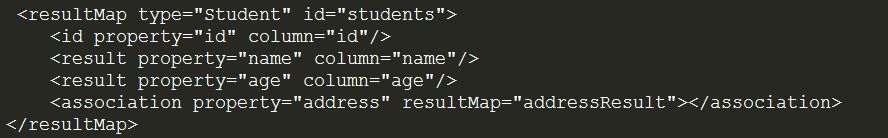
**Delete语句**

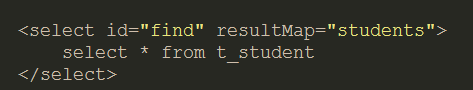


**Select语句**



**当返回类型是集合类型时，先声明集合**



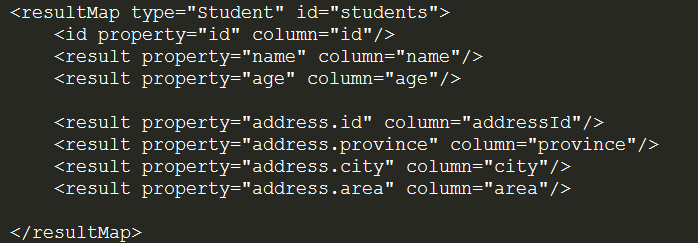


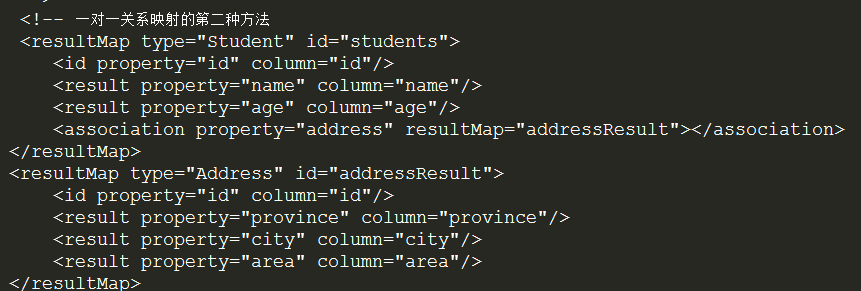
1. **Mybatis关系映射**

第一节：一对一关系的实现。例如学生和地址信息的一对一映射

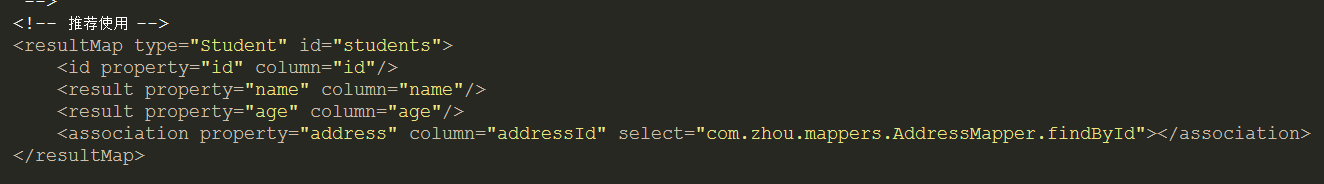
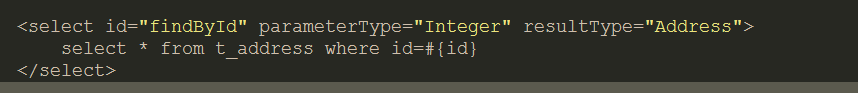
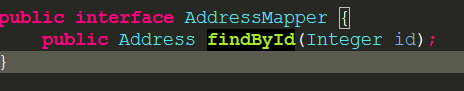
分别建立两个对应的实体以及数据库。

有几种方法建立一对一关系映射：

1、

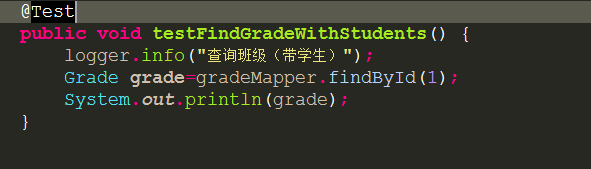
2、

**3、推荐使用这种方法**

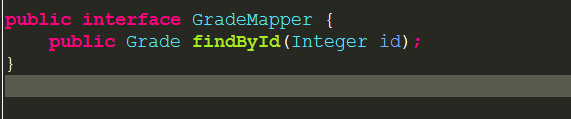


**第二节：一对多关系的实现。例如学生和班级信息的一对多映射**

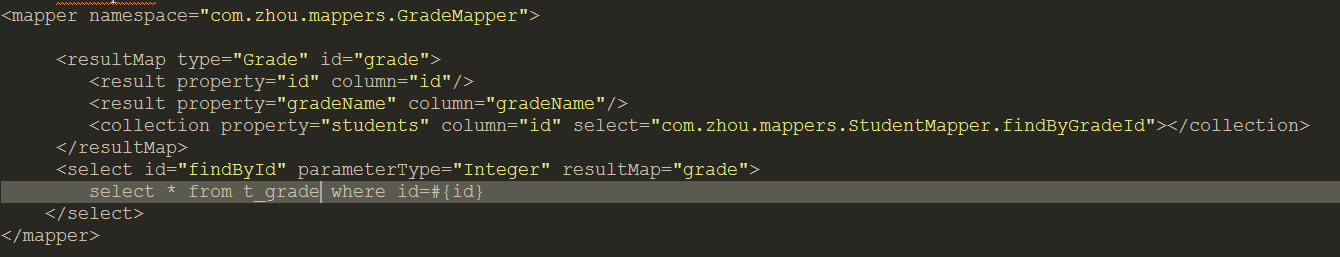
**分别建立两个实体以及数据库**

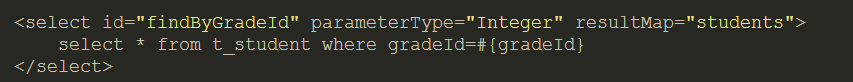


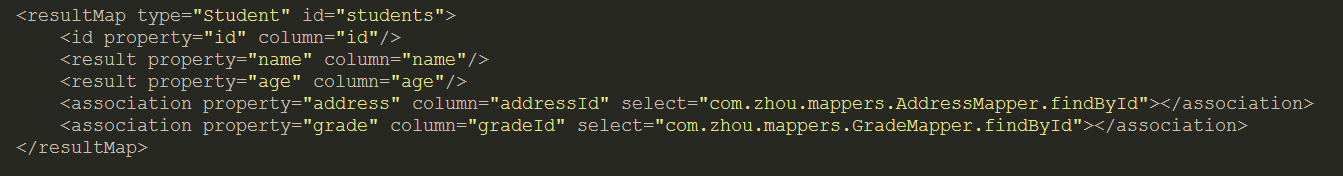
**进入 gradeMapper.findById**



**进入StudentMapper.xml实现findById**

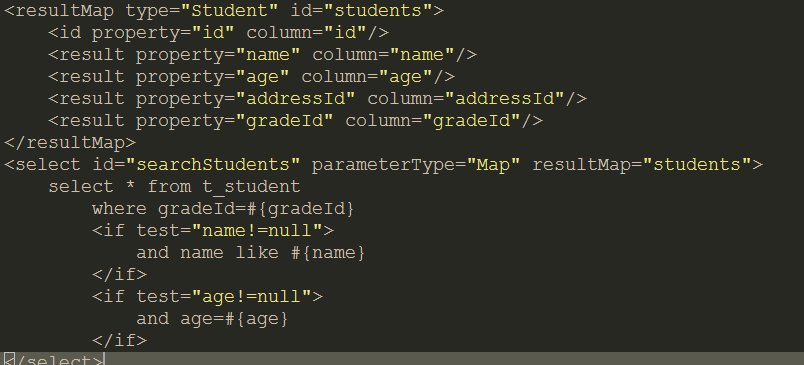
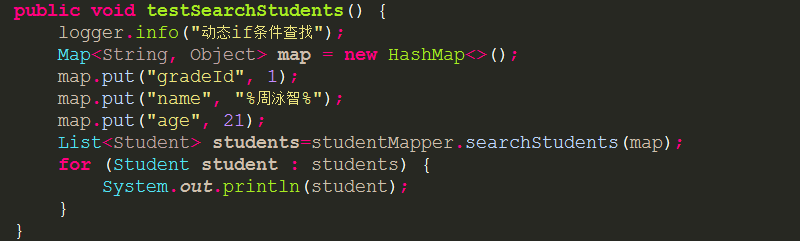
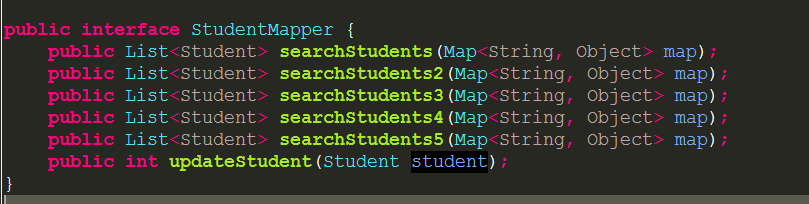


**在resultMap中转到select中指定的接口**

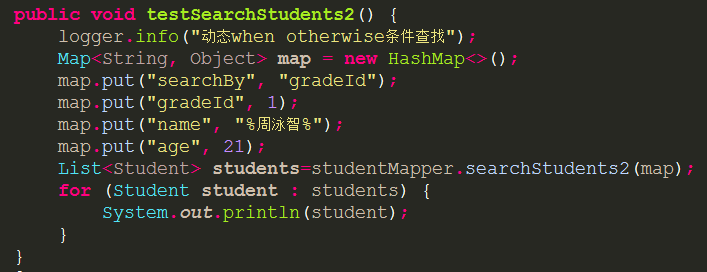
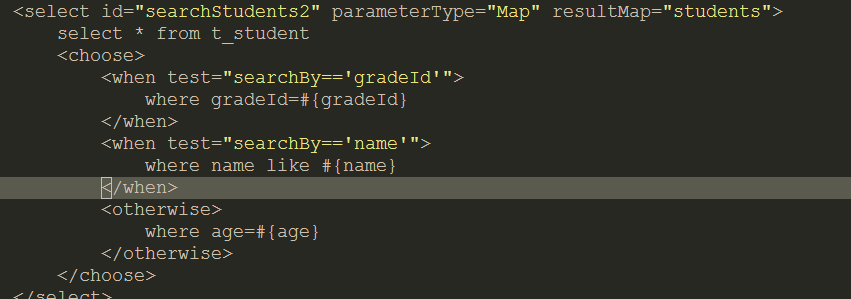


1. **动态SQL**

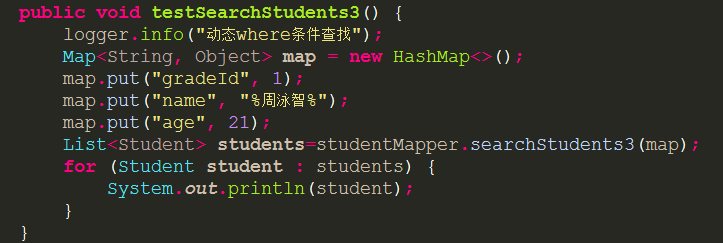
**第一节：if条件**

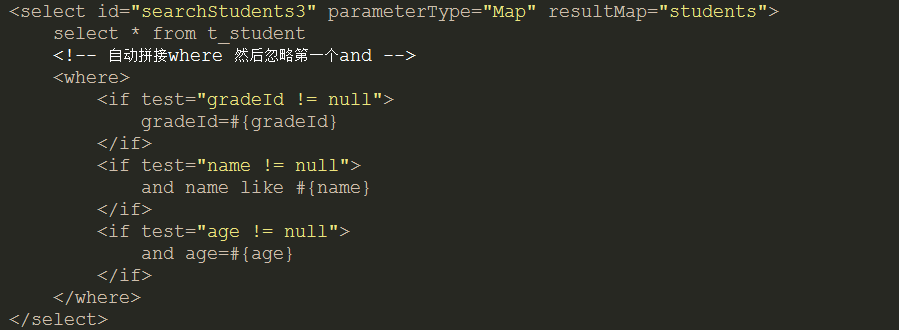


**第二节：choose、when、otherwise**

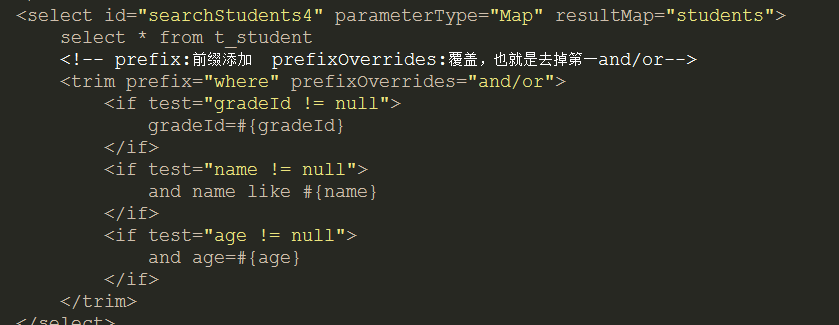


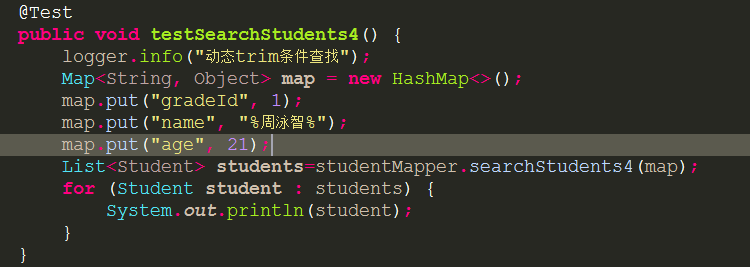
**第三节：where条件**



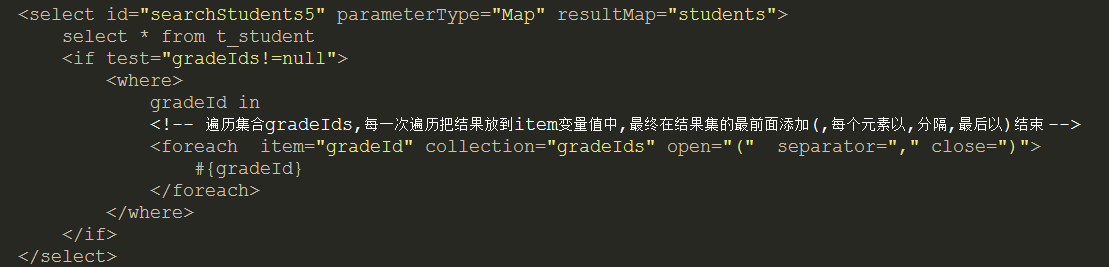
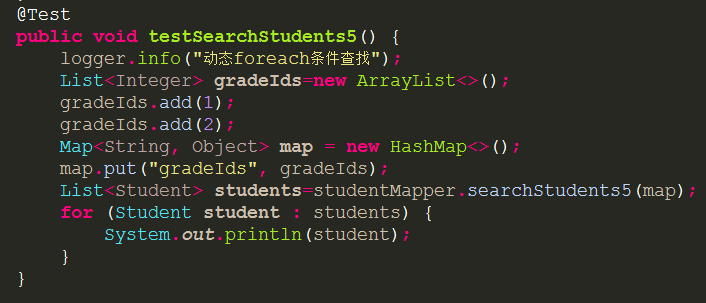


**第四节：trim条件**

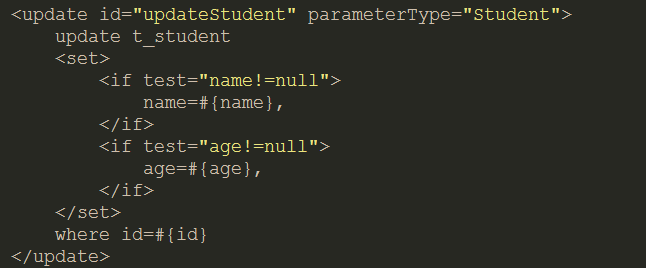


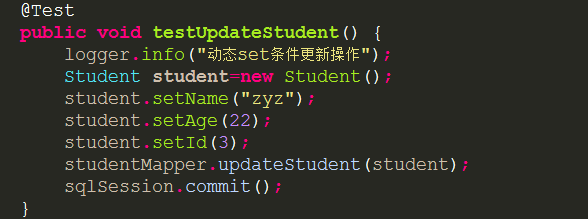


**第五节：foreach循环**



**第六节：set条件**





1. **Mabatis杂项**
2. **处理clob/blob类型的数据**

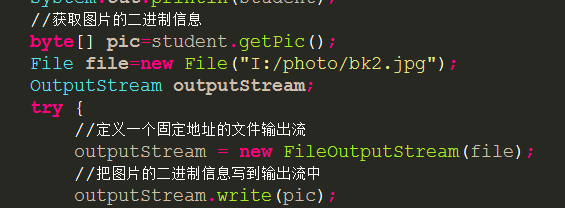
在实体中使用byte[]数组以及String接收clob以及blob数据



往数据库中插入图片数据时

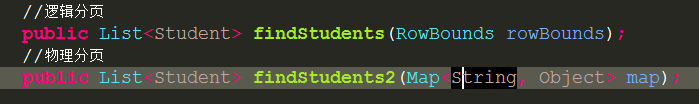


从数据库中读取图片时

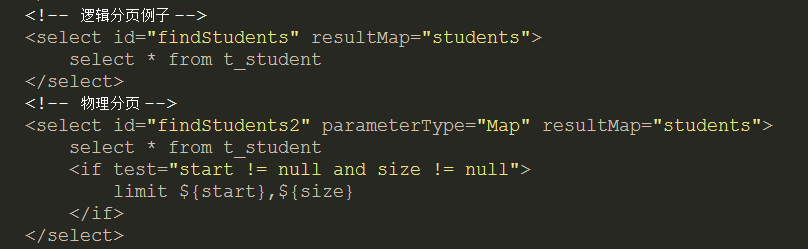


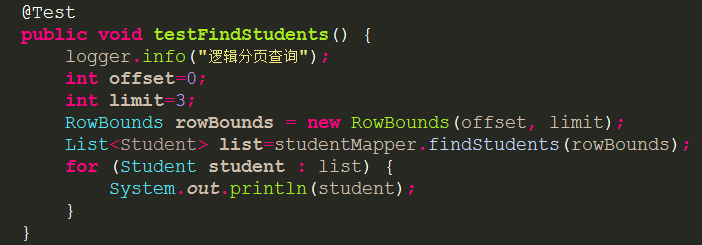
1. **传入多个参数**
2. **Mybatis分页**

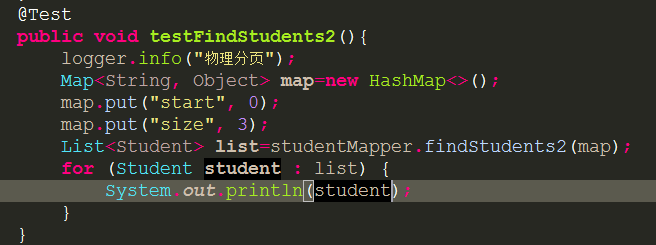
使用Mybatis自带的分页时需要使用类RowBounds作为参数，而使用物理分页时可以用Map作为参数



**Mapper.xml**







1. **Mybatis缓存**

<!--

1，size:表示缓存cache中能容纳的最大元素数。默认是1024；

2，flushInterval:定义缓存刷新周期，以毫秒计；

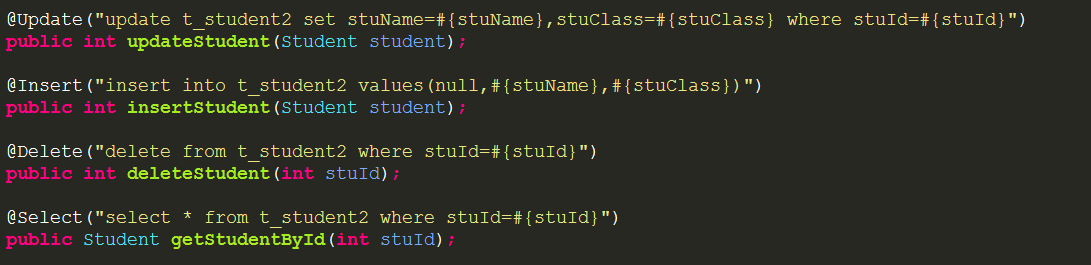
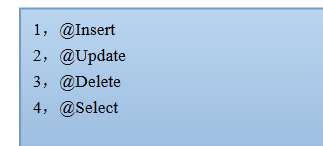
3，eviction:定义缓存的移除机制；默认是LRU(least recently userd，最近最少使用),还有FIFO(first in first out，先进先出)

4，readOnly:默认值是false，假如是true的话，缓存只能读。

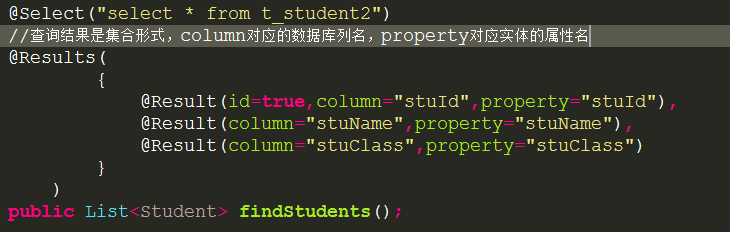
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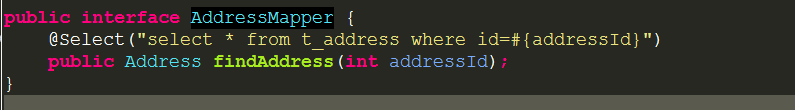
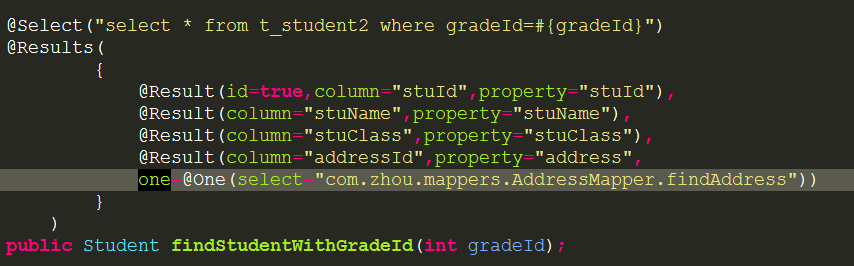
1. **使用注解配置SQL映射器**
2. **基本映射语句**



1. **结果集映射**

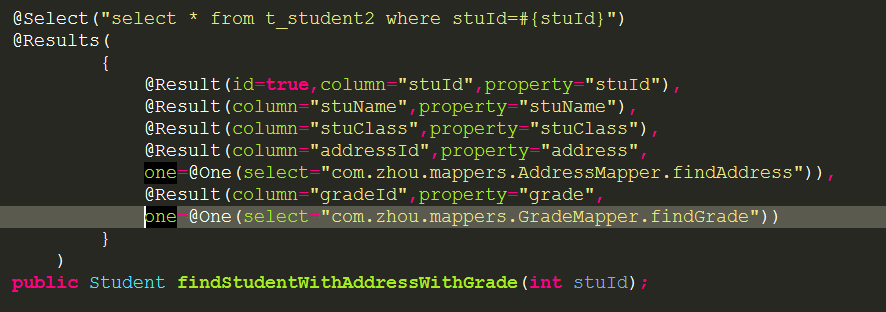


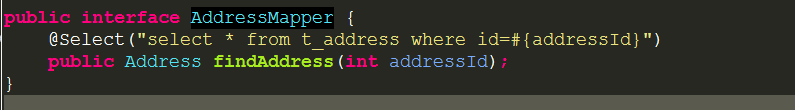
1. **关系映射**
2. **一对一映射**



1. **一对多映射**

**通过学生id可以查询到学生信息以及地址信息和班级信息**





**通过班级id可以查询到该班级的所有学生信息**

