Mapper.xml 详解

- resultType: 结果类型
 - 。 基本数据类型
 - 。 包装类
 - o String类型,根据 id 查询 User 的 username

UserRepository

```
//根据 id 查询 User 的 username
public String findNameById(int id);
```

UserRepository.xml

```
<select id="findNameById" parameterType="int"
resultType="java.lang.String">
    select username from t_user where id = #{id}
</select>
```

o JavaBean, 通过 id 查询 User

UserRepository

```
//根据 id 查询 User
pulbic User findById(int id);
```

UserRepository.xml

```
<select id="findById" parameterType="int"
resultType="com.southwind.entity.User">
    select * from t_user where id = #{id}
</select>
```

及联查询

一对多

创建实体类

Student

```
package com.southwind.entity;
public class Student {
```

```
private int id;
    private String name;
    private Classes classes;
   public Classes getClasses() {
      return classes;
    }
    public void setClasses(Classes classes) {
       this.classes = classes;
    public int getId() {
      return id;
   public void setId(int id) {
      this.id = id;
    }
    public String getName() {
      return name;
    }
   public void setName(String name) {
      this.name = name;
   }
}
```

Classes

```
package com.southwind.entity;

public class Classes {
    private int id;
    private String name;

public int getId() {
        return id;
    }

public void setId(int id) {
        this.id = id;
    }

public String getName() {
        return name;
    }
}
```

```
public void setName(String name) {
    this.name = name;
}
```

SQL

```
select * from student,classes where student.cid = classes.id and student.id
= 1;
```

MyBatis 框架在解析结果集的时候,将结果集与某个实体类进行映射,结果集中的字段与实体类的成员变量进行映射,根据字段名与成员变量相等的规则来进行映射,能映射起来的成员变量就会完成赋值, 无法映射的成员变量不会赋值。

StudentRepository

```
public interface StudentRepository {
    public Student findById(int id);
}
```

StudentRepository.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"</pre>
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.southwind.repository.StudentRepository">
    <resultMap id="studentMap" type="com.southwind.entity.Student">
        <id property="id" column="sid"></id>
        <result property="name" column="sname"></result>
        <!-- 映射 classes -->
        <association property="classes"</pre>
javaType="com.southwind.entity.Classes">
            <id property="id" column="cid"></id>
            <result property="name" column="cname"></result>
        </association>
    </resultMap>
    <select id="findById" parameterType="int" resultMap="studentMap">
        select student.id sid, student.name sname, classes.id cid, classes.name
cname from student,classes where student.cid = classes.id and student.id = #
{id}
    </select>
</mapper>
```

ClassesRepository

```
package com.southwind.repository;
import com.southwind.entity.Classes;
public interface ClassesRepository {
   public Classes findById(int id);
}
```

ClassesRepository.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"</pre>
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.southwind.repository.ClassesRepository">
    <resultMap id="classesMap" type="com.southwind.entity.Classes">
        <id property="id" column="cid"></id>
        <result property="name" column="cname"></result>
        <!-- 映射 students -->
        <collection property="students"</pre>
ofType="com.southwind.entity.Student">
            <id property="id" column="sid"></id>
            <result property="name" column="sname"></result>
        </collection>
    </resultMap>
    <select id="findById" parameterType="int" resultMap="classesMap">
        select classes.id cid, classes.name cname, student.id sid, student.name
sname from classes,student where classes.id = student.cid and classes.id = #
{id}
   </select>
</mapper>
```

需要注意的是:association 标签,通过设置 javaType 属性,映射实体类,collection 标签,通过设置 ofType 属性,映射实体类。

多对多

多对多其实是双向的一对多关系,借助于一张中间表,中间表和两张目标表都是一对多关系,间接完成 多对多的关系映射。

一个 Customer 可以对应多个 Goods,一个 Goods 也可以对应多个 Customer,所以双方都是用 collection 标签进行映射。

Customer

```
package com.southwind.entity;
import java.util.List;
public class Customer {
    private int id;
    private String name;
   private List<Goods> goods;
   public int getId() {
       return id;
    public void setId(int id) {
       this.id = id;
    public String getName() {
       return name;
    }
    public void setName(String name) {
       this.name = name;
    }
   public List<Goods> getGoods() {
       return goods;
    }
    public void setGoods(List<Goods> goods) {
       this.goods = goods;
}
```

Goods

```
package com.southwind.entity;

import java.util.List;

public class Goods {
    private int id;
    private String name;
    private List<Customer> customers;

public int getId() {
       return id;
    }
}
```

```
public void setId(int id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public List<Customer> getCustomers() {
    return customers;
}

public void setCustomers(List<Customer> customers) {
    this.customers = customers;
}
```

CustomerRepository

```
package com.southwind.repository;
import com.southwind.entity.Customer;

public interface CustomerRepository {
    public Customer findById(int id);
}
```

CustomerRepository.xml

```
<select id="findById" parameterType="int" resultMap="customerMap">
    select c.id cid,c.name cname,g.id gid,g.name gname
from customer c,goods g,customer_goods cg where c.id = cg.cid and g.id =
cg.gid and c.id = #{id}
    </select>
</mapper>
```

GoodsRepository

```
package com.southwind.repository;
import com.southwind.entity.Goods;

public interface GoodsRepository {
   public Goods findById(int id);
}
```

GoodsRepository.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.southwind.repository.GoodsRepository">
    <resultMap id="goodsMap" type="com.southwind.entity.Goods">
        <id property="id" column="gid"></id>
        <result property="name" column="gname"></result>
        <!-- 映射 customers -->
        <collection property="customers"</pre>
ofType="com.southwind.entity.Customer">
            <id property="id" column="cid"></id>
            <result property="name" column="cname"></result>
        </collection>
    </resultMap>
    <select id="findById" parameterType="int" resultMap="goodsMap">
      select c.id cid,c.name cname,g.id gid,g.name gname
 from customer c,goods g,customer_goods cg where c.id = cg.cid and g.id =
cg.gid and g.id = #{id}
    </select>
</mapper>
```

```
package com.southwind.repository;
import com.southwind.entity.Student;

public interface StudentRepository {
    public Student findById(int id);
    public void save(Student student);
    public void update(Student student);
    public void delete(Student student);
}
```

StudentRepository.xml

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"</pre>
"http://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="com.southwind.repository.StudentRepository">
    <resultMap id="studentMap" type="com.southwind.entity.Student">
        <id property="id" column="sid"></id>
        <result property="name" column="sname"></result>
        <!-- 映射 classes -->
        <association property="classes"</pre>
javaType="com.southwind.entity.Classes">
            <id property="id" column="cid"></id>
            <result property="name" column="cname"></result>
        </association>
    </resultMap>
    <select id="findById" parameterType="int" resultMap="studentMap">
        select student.id sid, student.name sname, classes.id cid, classes.name
cname from student,classes where student.cid = classes.id and student.id = #
{id}
    </select>
    <insert id="save" parameterType="com.southwind.entity.Student">
        insert into student(name,cid) values(#{name},#{classes.id})
    </insert>
    <update id="update" parameterType="com.southwind.entity.Student">
        update student set name = #{name},cid = #{classes.id} where id = #
{id}
    </update>
    <delete id="delete" parameterType="com.southwind.entity.Student">
        delete from student where id = #{id}
```

</delete>

</mapper>