

# MyBatis的多表操作









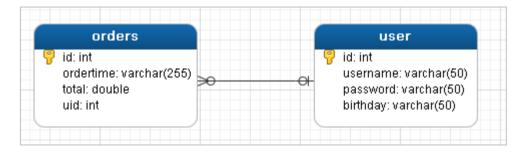
◆ MyBatis的多表操作



### 1.1 一对一查询

#### 1. 一对一查询的模型

用户表和订单表的关系为,一个用户有多个订单,一个订单只从属于一个用户 一对一查询的需求:查询一个订单,与此同时查询出该订单所属的用户





### 1.1 一对一查询

#### 2. 一对一查询的语句

对应的sql语句: select \* from orders o,user u where o.uid=u.id;

查询的结果如下:

信息	结	果1	概况	状态							
id	o	rderti	me	total	uid	id1	username	password	birthday		
•	1 2	018-1	2-12	3000	1	1	lucy	123	1539751863457		
	2 2	019-1	2-12	4000	1	1	lucy	123	1539751863457		
	3 2	020-1	2-12	5000	2	2	tom	123	1539751863457		



### 1.1 一对一查询

#### 3. 创建Order和User实体

```
public class Order {

private int id;
private Date ordertime;
private double total;

//代表当前订单从属于哪一个客户
private User user;
}
```

```
public class User {
    private int id;
    private String username;
    private String password;
    private Date birthday;
}
```



### 1.1 一对一查询

### 4. 创建OrderMapper接口

```
public interface OrderMapper {
    List<Order> findAll();
}
```



### 1.1 —对一查询

#### 5. 配置OrderMapper.xml

```
<mapper namespace="com.itheima.mapper.OrderMapper">
   <resultMap id="orderMap" type="com.itheima.domain.Order">
       <result column="uid" property="user.id"></result>
       <result column="username" property="user.username"></result>
       <result column="password" property="user.password"></result>
       <result column="birthday" property="user.birthday"></result>
   </resultMap>
   <select id="findAll" resultMap="orderMap">
       select * from orders o, user u where o.uid=u.id
   </select>
</mapper>
```



### 1.1 —对一查询

#### 5. 配置OrderMapper.xml

其中<resultMap>还可以配置如下:

```
<resultMap id="orderMap" type="com.itheima.domain.Order">
    <result property="id" column="id"></result>
   <result property="ordertime" column="ordertime"></result>
   <result property="total" column="total"></result>
    <association property="user" javaType="com.itheima.domain.User">
       <result column="uid" property="id"></result>
       <result column="username" property="username"></result>
        <result column="password" property="password"></result>
       <result column="birthday" property="birthday"></result>
   </association>
</resultMap>
```



### 1.1 —对一查询

```
OrderMapper mapper = sqlSession.getMapper(OrderMapper.class);
List<Order> all = mapper.findAll();
for(Order order : all) {
    System.out.println(order);
}
```

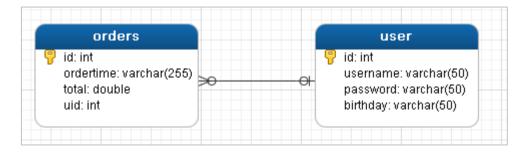
```
09:12:24,650 DEBUG findAll:54 - ==> Preparing: select * from orders o,user u where o.uid=u.id
09:12:24,672 DEBUG findAll:54 - ==> Parameters:
09:12:24,699 DEBUG findAll:54 - <== Total: 3
Order{id=1, ordertime=Wed Dec 12 00:00:00 GMT+08:00 2018, total=3000.0,
Order{id=2, ordertime=Thu Dec 12 00:00:00 GMT+08:00 2019, total=4000.0,
Order{id=3, ordertime=Sat Dec 12 00:00:00 GMT+08:00 2020, total=5000.0,
09:12:24,706 DEBUG JdbcTransaction:54 - Resetting autocommit to true on JDBC Connection [com.mysql.jdbc.
09:12:24,706 DEBUG JdbcTransaction:54 - Closing JDBC Connection [com.mysql.jdbc.JDBC4Connection@28ac3dc3
09:12:24,706 DEBUG PooledDataSource:54 - Returned connection 682376643 to pool.
```



### 1.2 一对多查询

#### 1. 一对多查询的模型

用户表和订单表的关系为,一个用户有多个订单,一个订单只从属于一个用户 一对多查询的需求:查询一个用户,与此同时查询出该用户具有的订单





### 1.2 一对多查询

#### 2. 一对多查询的语句

对应的sql语句: select \*,o.id oid from user u left join orders o on u.id=o.uid;

查询的结果如下:

ſ	謥	结果1	概况	状态							
	id	userna	username		ord	birthday	id1	ordertime	total	uid	oid
Þ		1 lucy		123		2018-12-12	1	2018-12-12	3000	1	1
		1 lucy	lucy			2018-12-12	2	2019-12-12	4000	1	2
		2 tom		123		2018-12-12	3	2020-12-12	5000	2	3
		5 haohao		123		2018-12-12	(Null)	(Null)	(Null)	(Null)	(Null)

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### 1.2 一对多查询

#### 3. 修改User实体

```
public class Order {

private int id;
private Date ordertime;
private double total;

//代表当前订单从属于哪一个客户
private User user;
}
```

```
public class User {

private int id;
private String username;
private String password;
private Date birthday;
//代表当前用户具备哪些订单

private List<Order> orderList;
}
```



### 1.2 一对多查询

#### 4. 创建UserMapper接口

```
public interface UserMapper {
    List<User> findAll();
}
```

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### 1.2 一对多查询

#### 5. 配置UserMapper.xml

```
<mapper namespace="com.itheima.mapper.UserMapper">
   <resultMap id="userMap" type="com.itheima.domain.User">
       <result column="id" property="id"></result>
       <result column="username" property="username"></result>
       <result column="password" property="password"></result>
       <result column="birthday" property="birthday"></result>
       <collection property="orderList" ofType="com.itheima.domain.Order">
           <result column="oid" property="id"></result>
           <result column="ordertime" property="ordertime"></result>
           <result column="total" property="total"></result>
       </collection>
   </resultMap>
   <select id="findAll" resultMap="userMap">
       select *,o.id oid from user u left join orders o on u.id=o.uid
   </select>
</mapper>
```

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### 1.2 一对多查询

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### 1.2 一对多查询

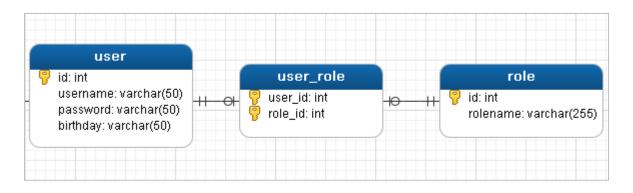


### 1.3 多对多查询

#### 1. 多对多查询的模型

用户表和角色表的关系为,一个用户有多个角色,一个角色被多个用户使用

多对多查询的需求: 查询用户同时查询出该用户的所有角色





### 1.3 多对多查询

#### 2. 多对多查询的语句

对应的sql语句: select u.\*,r.\*,r.id rid from user u left join user\_role ur on u.id=ur.user\_id inner join role r on ur.role\_id=r.id;

#### 查询的结果如下:

信	息	ś	结果1	概况	状态					
	id		userna	ime	passwo	ord	birthday		id1	rolename
١		1	lucy		123		2018-12	-12	1	CEO
		1	lucy		123		2018-12	-12	2	CFO
		2	tom		123		2018-12-	-12	2	CFO
		2	tom		123		2018-12-	-12	3	coo



### 1.3 多对多查询

#### 3. 创建Role实体,修改User实体

```
public class User {
    private int id;
    private String username;
    private String password;
    private Date birthday;
    //代表当前用户具备哪些订单
    private List<Order> orderList;
    //代表当前用户具备哪些角色
    private List<Role> roleList;
}
```

```
public class Role {
    private int id;
    private String rolename;
}
```



## 1.3 多对多查询

4. 添加UserMapper接口方法

```
List<User> findAllUserAndRole();
```

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### 1.3 多对多查询

#### 5. 配置UserMapper.xml

```
<resultMap id="userRoleMap" type="com.itheima.domain.User">
    <result column="id" property="id"></result>
    <result column="username" property="username"></result>
    <result column="password" property="password"></result>
    <result column="birthday" property="birthday"></result>
    <collection property="roleList" ofType="com.itheima.domain.Role">
        <result column="rid" property="id"></result>
        <result column="rolename" property="rolename"></result>
    </collection>
</resultMap>
<select id="findAllUserAndRole" resultMap="userRoleMap">
    select u.*,r.*,r.id rid from user u left join user role ur on
u.id=ur.user id
    inner join role r on ur.role id=r.id
</select>
```

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### 1.3 多对多查询



### 1.3 多对多查询



### 1.4 知识小结

## MyBatis多表配置方式:

一对一配置:使用<resultMap>做配置

一对多配置:使用<resultMap>+<collection>做配置

多对多配置:使用<resultMap>+<collection>做配置



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