武昌理工学院人工智能学院

实验报告

课程名称		Java EE		指导教师		方洁
实验名称		实验五 MyBatis 的一对多查询		实验地点		Home
专业班级		计科 1702		实验日期		2020/5/13
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成	绩					

一、实验目的和实验内容

实验目的:

- 1.练习使用 MySql 数据库;
- 2.练习使用持久层框架;
- 3.练习使用 MyBatis 的一对多查询

实验内容:

在实验指导五的基础上完成查询一个部门下的所有员工的操作

二、实验结果(含程序、数据记录及分析和实验总结等,可附页)数据库表:

	Name	Password	DeptId	
Þ	张龙	125		3
	王朝	123		1
	赵虎	126		1
	马汉	124		2



```
Client.java
☑ Client.java 🏻 🗷 UserMapper.xml 📄 jdbc.properties 📝 mybatis-config.xml
                                                 Department.java
1 package client;
 3⊕ import java.io.*;...
10
11 public class Client {
      public static void main(String args[]) throws IOException {
12⊝
13
         InputStream in = Resources.getResourceAsStream("mybatis-config.xml");
          SqlSessionFactory factory = new SqlSessionFactoryBuilder().build(in);
15
          SqlSession sqlSession = factory.openSession();
         List<Department> depts = sqlSession.selectList("findAllEmployees");
System.out.println("查询所有部门下的所有员工(一个部门包含多个员工,一对多集合查询方式):");
16
17
18
          for (Department dept : depts) {
             System.out.println("Department Name: "+dept.getDeptName());
19
20
             for(Employee emp:dept.getEmployees())
21
                System.out.println("Employee's DeptId: "+emp.getDeptId()+"
                                                                     Employee's Name: "+e
22
23
          sqlSession.close();
25 }
UserMapper.xml
Client.java
              🛚 UserMapper.xml 🖾 📄 jdbc.properties
                                                                                 D) D
                                                        x mybatis-config.xml
   1 <?xml version="1.0" encoding="UTF-8"?>
   2 <!DOCTYPE mapper
   3 PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
   4 "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
   5⊖ <mapper namespace="/">
   6⊖
           <resultMap type="domain.Department" id="dept">
                 <id property="id" column="Id" />
   7
                 <result property="deptName" column="DeptName" />
   8
   9⊝
                 <collection property="employees" javaType="ArrayList</pre>
                      ofType="domain.Employee">
  10
                      <id property="name" column="Name" />
  11
                      <result property="password" column="Password" />
  12
                      <result property="deptId" column="DeptId" />
  13
                 </collection>
  14
  15
  16
           </resultMap>
           <select id="findAllEmployees" resultMap="dept">
 17⊖
                 select * from
  18
 19
                tuser, tdepartment
  20
                where tuser.DeptId=tdepartment.Id
  21
           </select>
22 </mapper>
Department.java
```

```
... ocennappenam
                            _ jabah.operaes
                                             ... mybaas comgium
  1 package domain;
  3 import java.util.List;
  4
  5 public class Department {
  6
         private int id;
  7
         private String deptName;
         private List<Employee> employees;
  8
  9⊝
         public int getId() {
             return id;
 10
 11
 12⊖
         public void setId(int id) {
 13
             this.id = id;
 14
 15⊖
         public String getDeptName() {
 16
             return deptName;
 17
 18⊝
         public void setDeptName(String deptName) {
 19
             this.deptName = deptName;
 20
 21⊖
         public List<Employee> getEmployees() {
 22
             return employees;
 23
 24⊖
         public void setEmployees(List<Employee> employees) {
 25
             this.employees = employees;
Employee.java
```

```
Client.java
                 X UserMapper.xml
                                          idbc.properties
                                                                X mybatis-co
      package domain;
   2
      public class Employee {
  4
            private String name;
   5
            private String password;
   6
            private int deptId;
   7⊝
            public String getName() {
  8
                  return name;
  9
            public void setName(String name) {
 10⊖
 11
                  this.name = name;
 12
 13⊖
            public String getPassword() {
 14
                  return password;
 15
 16⊖
            public void setPassword(String password) {
 17
                  this.password = password;
 18
 19⊖
            public int getDeptId() {
 20
                  return deptId;
 21
            public void setDeptId(int deptId) {
 22⊖
 23
                  this.deptId = deptId;
 24
            }
运行结果:
                                                                  👫 Servers 📮 Console 🕮
<terminated > Client (5) [Java Application] D:\Java SE\bin\javaw.exe (2020年5月13日 上午8:30:37)
[UMS]DEBUG [main] - Logging initialized using 'class org.apache.ibatis.logging.log4j.Log4jImpl' adapter.
[UMS]DEBUG [main] - PooledDataSource forcefully closed/removed all connections.
[UMS]DEBUG [main] - Opening JDBC Connection
[UMS]DEBUG [main] - Created connection 1620303253.
[UMS]DEBUG [main] - Setting autocommit to false on JDBC Connection [com.mysql.jdbc.JDBC4Connection@6093d
[UMS]DEBUG [main] - ==> Preparing: select * from tuser,tdepartment where tuser.DeptId=tdepartment.Id
[UMS]DEBUG [main] - ==> Parameters:
[UMS]DEBUG [main] - <==
                         Total: 4
查询所有部门下的所有员工(一个部门包含多个员工,一对多集合查询方式):
Department Name: 开发三部
Employee's DeptId: 3
                        Employee's Name: 张龙
Department Name: 开发一部
Employee's DeptId: 1
                        Employee's Name: 王朝
Employee's DeptId: 1
                        Employee's Name: 赵虎
Department Name: 开发二部
Employee's DeptId: 2
                        Employee's Name: 马汉
[UMS]DEBUG [main] - Resetting autocommit to true on JDBC Connection [com.mysql.jdbc.JDBC4Connection@6093
[UMS]DEBUG [main] - Closing JDBC Connection [com.mysql.jdbc.JDBC4Connection@6093dd95] [UMS]DEBUG [main] - Returned connection 1620303253 to pool.
```

实验总结: (实验结果和存在的问题及解决方法)

实验结果:完成,在多对一上修改两个类的结构,然后将<association>类结果集变成<collection>List结果集就行

存在问题: 没有

解决方法: 无

评阅意见:

指导教师签名:

实验结果	(附页)

实验结果(附页	[)		