

狂神说SpringBoot09：整合MyBatis

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狂神说SpringBoot系列连载课程，通俗易懂，基于SpringBoot2.2.5版本，欢迎各位狂粉转发关注学习。未经作者授权，禁止转载




整合MyBatis

官方文档：<http://mybatis.org/spring-boot-starter/mybatis-spring-boot-autoconfigure/>

Maven仓库地址：<https://mvnrepository.com/artifact/org.mybatis.spring.boot/mybatis-spring-boot-starter/2.1.1>

mybatis-spring-boot-autoconfigure



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Introduction

What is MyBatis-Spring-Boot-Starter?

Requirements

Installation

Maven

By using this module you will achieve:

- Build standalone applications
- Reduce the boilerplate to almost zero
- Less XML configuration

The MyBatis-Spring-Boot-Starter requires following versions:

MyBatis-Spring-Boot-Starter	MyBatis-Spring	Spring Boot	Java
2.1	2.0 (need 2.0.2+ for enable all features)	2.1 or higher	8 or higher
2.0 (EOL)	2.0	2.0.4 or 2.1	8 or higher
1.3	1.3	1.5	6 or higher
1.2 (EOL)	1.2	1.4	6 or higher
1.1 (EOL)	1.1	1.3	6 or higher
1.0 (EOL)	1.0	1.3	6 or higher

To use the MyBatis-Spring-Boot-Starter module, you just need to include the `mybatis-spring-boot-autoconfigure.jar` file and its dependencies(`mybatis.jar`, `mybatis-spring.jar` and etc...) in the `pom.xml`.

Maven

if you are using Maven just add the following dependency to your `pom.xml`.

整合测试

1、导入 MyBatis 所需要的依赖

```
<dependency>
    <groupId>org.mybatis.spring.boot</groupId>
    <artifactId>mybatis-spring-boot-starter</artifactId>
    <version>2.1.1</version></dependency>
```

2、配置数据库连接信息（不变）

```

spring: datasource:      username: root      password: 123456      #?serverTimez
one=UTC解决时区的报错      url: jdbc:mysql://localhost:3306/springboot?serverTim
ezone=UTC&useUnicode=true&characterEncoding=utf-8      driver-class-name: com
.mysql.cj.jdbc.Driver      type: com.alibaba.druid.pool.DruidDataSource
      #Spring Boot 默认是不注入这些属性值的，需要自己绑定      #druid 数据源专有配置      i
nitialSize: 5      minIdle: 5      maxActive: 20      maxWait: 60000      timeBetwe
enEvictionRunsMillis: 60000      minEvictableIdleTimeMillis: 300000      valida
tionQuery: SELECT 1 FROM DUAL      testWhileIdle: true      testOnBorrow: false
      testOnReturn: false      poolPreparedStatements: true
      #配置监控统计拦截的filters，stat:监控统计、log4j: 日志记录、wall: 防御sql注入
#如果允许时报错 java.lang.ClassNotFoundException: org.apache.log4j.Priority
      #则导入 log4j 依赖即可，Maven 地址: https://mvnrepository.com/artifact/log4j/
log4j      filters: stat,wall,log4j      maxPoolPreparedStatementPerConnectionS
ize: 20      useGlobalDataSourceStat: true      connectionProperties: druid.sta
t.mergeSql=true;druid.stat.slowSqlMillis=500

```

3、测试数据库是否连接成功！

4、创建实体类，导入 Lombok!

Department.java

```
package com.kuang.pojo;

import lombok.AllArgsConstructor;import lombok.Data;import lombok.NoArgsConstructor;

@Data@NoArgsConstructor@AllArgsConstructorpublic class Department {

    private Integer id;    private String departmentName;

}
```

5、创建mapper目录以及对应的 Mapper 接口

DepartmentMapper.java

```
//@Mapper : 表示本类是一个 MyBatis 的 Mapper@Mapper@Repositorypublic interface
DepartmentMapper {

    // 获取所有部门信息    List<Department> getDepartments();

    // 通过id获得部门    Department getDepartment(Integer id);

}
```

6、对应的**Mapper**映射文件

DepartmentMapper.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.kuang.mapper.DepartmentMapper">
    <select id="getDepartments" resultType="Department">
        select * from department;
    </select>
    <select id="getDepartment" resultType="Department" parameterType="int">
        select * from department where id = #{id};
    </select>
</mapper>
```

7、**maven**配置资源过滤问题

```
<resources>
    <resource>
        <directory>src/main/java</directory>
        <includes>
            <include>**/*.xml</include>
        </includes>
        <filtering>true</filtering>
    </resource>
</resources>
```

8、编写部门的 **DepartmentController** 进行测试！

```

@RestController public class DepartmentController {
    @Autowired DepartmentMapper departmentMapper; // 查询全部部门
    @GetMapping("/getDepartments") public List<Department> getDepartments(){
        return departmentMapper.getDepartments();
    }
    // 查询全部部门
    @GetMapping("/getDepartment/{id}") public Department getDepartment(@PathVariable("id") Integer id){
        return departmentMapper.getDepartment(id);
    }
}

```

启动项目访问进行测试！

我们增加一个员工类再测试下，为之后做准备

1、新建一个pojo类 Employee：

```
@Data@AllArgsConstructor@NoArgsConstructorpublic class Employee {  
    private Integer id;        private String lastName;    private String email;  
    //1 male, 0 female    private Integer gender;        private Integer depart  
ment;    private Date birth;  
    private Department eDepartment; // 冗余设计  
}
```

2、新建一个 EmployeeMapper 接口

```
//@Mapper : 表示本类是一个 MyBatis 的 Mapper@Mapper@Repositorypublic interface  
EmployeeMapper {  
    // 获取所有员工信息    List<Employee> getEmployees();  
    // 新增一个员工    int save(Employee employee);  
    // 通过id获得员工信息    Employee get(Integer id);  
    // 通过id删除员工    int delete(Integer id);  
}
```

3、编写 EmployeeMapper.xml 配置文件

```

<?xml version="1.0" encoding="UTF-8" ?><!DOCTYPE mapper          PUBLIC "-//m
ybatis.org//DTD Mapper 3.0//EN"          "http://mybatis.org/dtd/mybatis-3-ma
pper.dtd">

<mapper namespace="com.kuang.mapper.EmployeeMapper">

    <resultMap id="EmployeeMap" type="Employee">          <id property="id" c
olumn="eid"/>          <result property="lastName" column="last_name"/>
    <result property="email" column="email"/>          <result property="gender"
column="gender"/>          <result property="birth" column="birth"/>          <
association property="eDepartment" javaType="Department">          <id p
roperty="id" column="did"/>          <result property="departmentName" co
lumn="dname"/>          </association>          </resultMap>

    <select id="getEmployees" resultMap="EmployeeMap">          select e.id a
s eid,last_name,email,gender,birth,d.id as did,d.department_name as dname

```

```

        from department d,employee e            where d.id = e.department    </select>
    </select>

    <insert id="save" parameterType="Employee">        insert into employee
        (last_name,email,gender,department,birth)        values (#{lastName},#{email},#{gender},#{department},#{birth});    </insert>

    <select id="get" resultType="Employee">        select * from employee where id = #{id}    </select>

    <delete id="delete" parameterType="int">        delete from employee where id = #{id}    </delete>
</mapper>

```

4、编写EmployeeController类进行测试


```

@RestController public class EmployeeController {
    @Autowired    EmployeeMapper employeeMapper;
    // 获取所有员工信息    @GetMapping("/getEmployees")    public List<Employee>
    getEmployees(){        return employeeMapper.getEmployees();    }
    @GetMapping("/save")    public int save(){        Employee employee = new
    Employee();        employee.setLastName("kuangshen");        employee.set
    Email("qinjiang@qq.com");        employee.setGender(1);        employee.set
    Department(101);        employee.setBirth(new Date());        return employeeMapper.save(employee);    }
    // 通过id获得员工信息    @GetMapping("/get/{id}")    public Employee get(@
    PathVariable("id") Integer id){        return employeeMapper.get(id);    }
    // 通过id删除员工    @GetMapping("/delete/{id}")    public int delete(@Pa
    thVariable("id") Integer id){        return employeeMapper.delete(id);    }
}

```

测试结果完成，搞定收工！



🔔 长按关注

据说关注小狂神的人都
走向人生巅峰了，还不
长按关注一下？

×

×



狂神说





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