### 创建数据库

```
-- Table structure for tb_user

DROP TABLE IF EXISTS `tb_user`;

CREATE TABLE `student` (
    `id` int(11) NOT NULL,
    `name` varchar(255) DEFAULT NULL,
    `age` int(11),
    PRIMARY KEY (`id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

-- Records of tb_user

INSERT INTO `student` VALUES ('1', 'laowang', 22);
INSERT INTO `student` VALUES ('2', 'laoli', 22);
```

## 引入依赖

```
<dependency>
    <groupId>mysql</groupId>
   <artifactId>mysql-connector-java</artifactId>
    <scope>runtime</scope>
</dependency>
<dependency>
    <groupId>org.springframework.boot</groupId>
   <artifactId>spring-boot-starter-test</artifactId>
   <scope>test</scope>
</dependency>
<!--springboot整合mybatis的依赖-->
<dependency>
    <groupId>org.mybatis.spring.boot</groupId>
    <artifactId>mybatis-spring-boot-starter</artifactId>
    <version>1.3.1
</dependency>
```

#### 创建文件

```
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     > test
```

### YML文件配置

```
server:
  port: 8088
spring:
 http:
   encoding.charset: UTF-8
   encoding.force: true
   encoding.enabled: true
  datasource:
   driver-class-name: com.mysql.cj.jdbc.Driver
   url: jdbc:mysql://127.0.0.1:3306/test?
serverTimezone=CTT&characterEncoding=utf8&useUnicode=true&useSSL=false
   username: root
   password: 123456
mybatis:
  #指定实体类地址
  typeAliasesPackage: com.king.entity
  #指定mysql-config配置文件
  config-localtion: classpath:mybatis/mybatis-config.xml
  #指定SqlMap映射文件位置
```

# 编写实体类

```
package com.king.entity;
public class Student {
    * 唯一标识id
    */
   private String id;
   /**
    * 姓名
    */
   private String name;
    * 年龄
    */
    private Integer age;
   public String getId() {
       return id;
    }
    public void setId(String id) {
       this.id = id;
    }
   public String getName() {
       return name;
    }
   public void setName(String name) {
       this.name = name;
    }
    public Integer getAge() {
       return age;
    }
   public void setAge(Integer age) {
       this.age = age;
    }
```

```
}
```

#### 编写接口

```
package com.king.mapper;
import com.king.entity.Student;
import org.apache.ibatis.annotations.Mapper;

@Mapper
public interface StudentMapper {

// List<Student> findAll();

Student getStudentById(String id);
}
```

#### mybatis-cofnig.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE configuration</pre>
      PUBLIC "-//mybatis.org//DTD Config 3.0//EN"
      "http://mybatis.org/dtd/mybatis-3-config.dtd">
<configuration>
   cproperties>
      cproperty name="dialect" value="mysql" />
   </properties>
   <settings>
      <!-- 这个配置使全局的映射器启用或禁用缓存。系统默认值是true,设置
只是为了展示出来 -->
      <setting name="cacheEnabled" value="true" />
      <!-- 全局启用或禁用延迟加载。当禁用时,所有关联对象都会即时加载。
系统默认值是true,设置只是为了展示出来 -->
      <setting name="lazyLoadingEnabled" value="true" />
      <!-- 允许或不允许多种结果集从一个单独的语句中返回(需要适合的驱
动)。 系统默认值是true,设置只是为了展示出来 -->
      <setting name="multipleResultSetsEnabled" value="true" />
      <!--使用列标签代替列名。不同的驱动在这方便表现不同。参考驱动文档或
充分测试两种方法来决定所使用的驱动。 系统默认值是true,设置只是为了展示出
来 -->
```

#### StudentMapper.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.king.mapper.StudentMapper" >
    <!--<resultMap id="BaseResultMap" type="com.king.entity.Student" >-->
        <!--<id column="id" property="id" jdbcType="VARCHAR" />-->
        <!--<result column="name" property="name" jdbcType="VARCHAR" />--
        <!--<result column="age" property="age" jdbcType="BIGINT" />-->
    <!--</resultMap>-->
    <!--<sql id="Base_Column_List" >-->
        <!--id, name, age-->
    <!--</sql>-->
    <!--<select id="findAll" resultType="com.king.entity.Student" >-->
        <!--SELECT-->
        <!--*-->
        <!--FROM student-->
    <!--</select>-->
    <select id="getStudentById" resultType="com.king.entity.Student" >
        SELECT
        FROM student where id = #{id}
    </select>
```

```
<!--<select id="getOne" parameterType="java.lang.Long"
resultMap="BaseResultMap">-->
        <!--SELECT-->
        <!--<include refid="Base_Column_List" />-->
        <!--FROM student-->
        <!--WHERE id = #{id}-->
    <!--</select>-->
    <!--<insert id="insert" parameterType="com.king.entity.Student" >-->
        <!--INSERT INTO-->
        <!--student-->
        <!--(id, name, age)-->
        <!--VALUES-->
        <!--(#{id}, #{name}, #{age})-->
    <!--</insert>-->
    <!--<update id="update" parameterType="com.king.entity.Student" >-->
        <!--UPDATE-->
        <!--student-->
        <!--SET-->
        <!--<if test="name != null">userName = #{userName},</if>-->
        <!--passWord = #{passWord},-->
        <!--nick_name = #{nickName}-->
        <!--WHERE-->
        <!--id = #{id}-->
    <!--</update>-->
    <!--<delete id="delete" parameterType="java.lang.String" >-->
        <!--DELETE FROM-->
        <!--student-->
        <!--WHERE-->
        <!--id =#{id}-->
    <!--</delete>-->
</mapper>
```

#### 注意:

- 1.namespace中需要与使用@Mapper的接口对应
- 2.UserMapper.xml文件名称必须与使用@Mapper的接口一致
- 3.标签中的id必须与@Mapper的接口中的方法名一致,且参数一致

```
package com.king.service;
import com.king.entity.Student;
import org.apache.ibatis.annotations.Param;
import java.util.List;
public interface StudentService {
   /**
    * 通过ID查询单条数据
    * @param id 主键
    * @return 实例对象
   Student queryById(String id);
    * 查询指定行数据
    * @param offset 查询起始位置
    * @param limit 查询条数
    * @return 对象列表
    */
   List<Student> queryAllByLimit(@Param("offset") int offset,
@Param("limit") int limit);
   /**
    * 通过实体作为筛选条件查询
    * @return 对象列表
   List<Student> queryAll();
   /**
    * 新增数据
    * @param student 实例对象
    * @return 影响行数
   int insert(Student student);
```

```
/**

* 修改数据

*

* @param student 实例对象

* @return 影响行数

*/
int update(Student student);

/**

* 通过主键删除数据

*

* @param id 主键

* @return 影响行数

*/
int deleteById(Integer id);
}
```

```
package com.king.service.impl;
import com.king.service.StudentService;
import com.king.entity.Student;
import com.king.mapper.StudentMapper;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.List;
@Service
public class StudentServiceImpl implements StudentService {
   @Autowired
    StudentMapper studentMapper;
   @Override
    public Student queryById(String id) {
        return studentMapper.getStudentById(id);
    }
   @Override
    public List<Student> queryAllByLimit(int offset, int limit) {
        return null;
    }
```

```
@Override
   public List<Student> queryAll() {
        return null;
   }
   @Override
   public int insert(Student student) {
        return 0;
   }
   @Override
   public int update(Student student) {
       return 0;
   }
   @Override
   public int deleteById(Integer id) {
       return 0;
   }
}
```

# 编写api接口

```
package com.king.controller;

import com.king.service.impl.StudentServiceImpl;
import com.king.entity.Student;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.ResponseBody;
import java.util.List;

@Controller
@ResponseBody
@RequestMapping("/student")
public class StudentController {

@Autowired
```

```
StudentServiceImpl studentServiceimpl;

@RequestMapping("/getAll")
public List<Student> getStudents() {
    return studentServiceimpl.queryAll();
}

@RequestMapping("/get/{id}")
public Student getStudent(@PathVariable String id) {
    return studentServiceimpl.queryById(id);
}
```

# 在启动类中添加对@MapperScan的扫描

```
package com.king;

import org.mybatis.spring.annotation.MapperScan;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
@MapperScan("com.king.mapper")
public class MybatisDemoApplication {

    public static void main(String[] args) {
        SpringApplication.run(MybatisDemoApplication.class, args);
    }
}
```