springboot(七)：springboot+mybatis多数据源最简解决方案

<http://www.ityouknow.com/springboot/2016/11/25/spring-boot-multi-mybatis.html>

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说起多数据源，一般都来解决那些问题呢，主从模式或者业务比较复杂需要连接不同的分库来支持业务。我们项目是后者的模式，网上找了很多，大都是根据jpa来做多数据源解决方案，要不就是老的spring多数据源解决方案，还有的是利用aop动态切换，感觉有点小复杂，其实我只是想找一个简单的多数据支持而已，折腾了两个小时整理出来，供大家参考。

废话不多说直接上代码吧

## 配置文件

pom包就不贴了比较简单该依赖的就依赖，主要是数据库这边的配置：

mybatis.config-locations=classpath:mybatis/mybatis-config.xml

spring.datasource.test1.driverClassName = com.mysql.jdbc.Driver

spring.datasource.test1.url = jdbc:mysql://localhost:3306/test1?useUnicode=true&characterEncoding=utf-8

spring.datasource.test1.username = root

spring.datasource.test1.password = root

spring.datasource.test2.driverClassName = com.mysql.jdbc.Driver

spring.datasource.test2.url = jdbc:mysql://localhost:3306/test2?useUnicode=true&characterEncoding=utf-8

spring.datasource.test2.username = root

spring.datasource.test2.password = root

一个test1库和一个test2库，其中test1位主库，在使用的过程中必须指定主库，不然会报错。

## 数据源配置

**@Configuration**

**@MapperScan(**basePackages **=** "com.neo.mapper.test1"**,** sqlSessionTemplateRef **=** "test1SqlSessionTemplate"**)**

**public** **class** **DataSource1Config** **{**

**@Bean(**name **=** "test1DataSource"**)**

**@ConfigurationProperties(**prefix **=** "spring.datasource.test1"**)**

**@Primary**

**public** DataSource **testDataSource()** **{**

**return** DataSourceBuilder**.**create**().**build**();**

**}**

**@Bean(**name **=** "test1SqlSessionFactory"**)**

**@Primary**

**public** SqlSessionFactory **testSqlSessionFactory(@Qualifier(**"test1DataSource"**)** DataSource dataSource**)** **throws** Exception **{**

SqlSessionFactoryBean bean **=** **new** SqlSessionFactoryBean**();**

bean**.**setDataSource**(**dataSource**);**

bean**.**setMapperLocations**(new** PathMatchingResourcePatternResolver**().**getResources**(**"classpath:mybatis/mapper/test1/\*.xml"**));**

**return** bean**.**getObject**();**

**}**

**@Bean(**name **=** "test1TransactionManager"**)**

**@Primary**

**public** DataSourceTransactionManager **testTransactionManager(@Qualifier(**"test1DataSource"**)** DataSource dataSource**)** **{**

**return** **new** **DataSourceTransactionManager(**dataSource**);**

**}**

**@Bean(**name **=** "test1SqlSessionTemplate"**)**

**@Primary**

**public** SqlSessionTemplate **testSqlSessionTemplate(@Qualifier(**"test1SqlSessionFactory"**)** SqlSessionFactory sqlSessionFactory**)** **throws** Exception **{**

**return** **new** **SqlSessionTemplate(**sqlSessionFactory**);**

**}**

**}**

最关键的地方就是这块了，一层一层注入,首先创建DataSource，然后创建SqlSessionFactory再创建事务，最后包装到SqlSessionTemplate中。其中需要指定分库的mapper文件地址，以及分库dao层代码

**@MapperScan(**basePackages **=** "com.neo.mapper.test1"**,** sqlSessionTemplateRef **=** "test1SqlSessionTemplate"**)**

这块的注解就是指明了扫描dao层，并且给dao层注入指定的SqlSessionTemplate。所有@Bean都需要按照命名指定正确。

## dao层和xml层

dao层和xml需要按照库来分在不同的目录，比如：test1库dao层在com.neo.mapper.test1包下，test2库在com.neo.mapper.test1

**public** **interface** **User1Mapper** **{**

List**<**UserEntity**>** **getAll();**

UserEntity **getOne(**Long id**);**

**void** **insert(**UserEntity user**);**

**void** **update(**UserEntity user**);**

**void** **delete(**Long id**);**

**}**

xml层

**<?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.neo.mapper.test1.User1Mapper" >

<resultMap id="BaseResultMap" type="com.neo.entity.UserEntity" >

<id column="id" property="id" jdbcType="BIGINT" />

<result column="userName" property="userName" jdbcType="VARCHAR" />

<result column="passWord" property="passWord" jdbcType="VARCHAR" />

<result column="user\_sex" property="userSex" javaType="com.neo.enums.UserSexEnum"/>

<result column="nick\_name" property="nickName" jdbcType="VARCHAR" />

</resultMap>

<sql id="Base\_Column\_List" >

id, userName, passWord, user\_sex, nick\_name

</sql>

<select id="getAll" resultMap="BaseResultMap" >

SELECT

<include refid="Base\_Column\_List" />

FROM users

</select>

<select id="getOne" parameterType="java.lang.Long" resultMap="BaseResultMap" >

SELECT

<include refid="Base\_Column\_List" />

FROM users

WHERE id = #{id}

</select>

<insert id="insert" parameterType="com.neo.entity.UserEntity" >

INSERT INTO

users

(userName,passWord,user\_sex)

VALUES

(#{userName}, #{passWord}, #{userSex})

</insert>

<update id="update" parameterType="com.neo.entity.UserEntity" >

UPDATE

users

SET

<if test="userName != null">userName = #{userName},</if>

<if test="passWord != null">passWord = #{passWord},</if>

nick\_name = #{nickName}

WHERE

id = #{id}

</update>

<delete id="delete" parameterType="java.lang.Long" >

DELETE FROM

users

WHERE

id =#{id}

</delete>

</mapper>

## 测试

测试可以使用SpringBootTest,也可以放到Controller中，这里只贴Controller层的使用

**@RestController**

**public** **class** **UserController** **{**

**@Autowired**

**private** User1Mapper user1Mapper**;**

**@Autowired**

**private** User2Mapper user2Mapper**;**

**@RequestMapping(**"/getUsers"**)**

**public** List**<**UserEntity**>** **getUsers()** **{**

List**<**UserEntity**>** users**=**user1Mapper**.**getAll**();**

**return** users**;**

**}**

**@RequestMapping(**"/getUser"**)**

**public** UserEntity **getUser(**Long id**)** **{**

UserEntity user**=**user2Mapper**.**getOne**(**id**);**

**return** user**;**

**}**

**@RequestMapping(**"/add"**)**

**public** **void** **save(**UserEntity user**)** **{**

user2Mapper**.**insert**(**user**);**

**}**

**@RequestMapping(**value**=**"update"**)**

**public** **void** **update(**UserEntity user**)** **{**

user2Mapper**.**update**(**user**);**

**}**

**@RequestMapping(**value**=**"/delete/{id}"**)**

**public** **void** **delete(@PathVariable(**"id"**)** Long id**)** **{**

user1Mapper**.**delete**(**id**);**

**}**

**}**

[**示例代码-github**](https://github.com/ityouknow/spring-boot-examples) **https://github.com/weixiaozheqingfu/spring-boot-examples**

[**示例代码-码云**](https://gitee.com/ityouknow/spring-boot-examples)

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