Spring Boot集成MyBatis

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1.整合Durid数据源

1、引入Jar包

```
<dependencies>
   <dependency>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-jdbc</artifactId>
   </dependency>
   <dependency>
       <groupId>org.springframework.boot
       <artifactId>spring-boot-starter-web</artifactId>
   </dependency>
   <!--mybatis的场景启动器
   因为MyBatis它是Spring data jpa
   <dependency>
       <groupId>org.mybatis.spring.boot</groupId>
       <artifactId>mybatis-spring-boot-starter</artifactId>
       <version>2.1.4
   </dependency>
   <dependency>
       <groupId>com.alibaba/groupId>
       <artifactId>druid</artifactId>
       <version>1.2.3
   </dependency>
```

```
cdependency>
cdependency>
cdependency>
cartifactId>mysql<connector-java</artifactId>
cscope>runtime</scope>
c/dependency>
cdependency>
cdependency>
cartifactId>springframework.boot</groupId>
cartifactId>spring-boot-starter-test</artifactId>
cscope>test</scope>
c/dependency>
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cscope>test</scope>
cscope>
csco
```

2.application.yml配置

```
#数据源
spring:
 datasource:
   username: root
   password: 123456
   url: jdbc:mysql://localhost:3306/springboot_mybatis?characterEncoding=utf8&useSSL=fa
   driver-class-name: com.mysql.cj.jdbc.Driver
   type: com.alibaba.druid.pool.DruidDataSource
       数据源其他配置
   initialSize: 5
   minIdle: 5
   maxActive: 20
   maxWait: 60000
   timeBetweenEvictionRunsMillis: 60000
   minEvictableIdleTimeMillis: 300000
   validationQuery: SELECT 1 FROM DUAL
   testWhileIdle: true
   testOnBorrow: false
   testOnReturn: false
   poolPreparedStatements: true
       配置监控统计拦截的filters,去掉后监控界面sql无法统计,'wall'用于防火墙
   filters: stat, wall
   maxPoolPreparedStatementPerConnectionSize: 20
```

```
connectionProperties: druid.stat.mergeSql=true;druid.stat.slowSqlMillis=500
schema: classpath:sql/mybatis.sql
initialization-mode: ALWAYS
```

3.读取配置类DruidConfig

```
* 数据源配置类
@Configuration
public class DruidConfig {
   // 将所有前缀为spring.datasource下的配置项都加载到DataSource中
   @ConfigurationProperties(prefix = "spring.datasource")
   @Bean
   public DataSource druidDataSource() {
       return new DruidDataSource();
   @Bean
   public ServletRegistrationBean statViewServlet() {
       ServletRegistrationBean servletRegistrationBean = new ServletRegistrationBean(new
       // 添加IP白名单
       servletRegistrationBean.addInitParameter("allow", "127.0.0.1");
       // 添加IP黑名单, 当白名单和黑名单重复时, 黑名单优先级更高
       servletRegistrationBean.addInitParameter("deny", "127.0.0.1");
       // 添加控制台管理用户
       servletRegistrationBean.addInitParameter("loginUsername", "admin");
       servletRegistrationBean.addInitParameter("loginPassword", "123456");
       // 是否能够重置数据
       servletRegistrationBean.addInitParameter("resetEnable", "false");
       return servletRegistrationBean;
    * 配置服务过滤器
    * @return 返回过滤器配置对象
   @Bean
   public FilterRegistrationBean statFilter() {
```

```
FilterRegistrationBean filterRegistrationBean = new FilterRegistrationBean(new We // 添加过滤规则

filterRegistrationBean.addUrlPatterns("/*");

// 忽略过滤格式

filterRegistrationBean.addInitParameter("exclusions", "*.js,*.gif,*.jpg,*.png,*.equal return filterRegistrationBean;

return filterRegistrationBean;

}
```

其实没有必要一个个手动去配置, druid 启动starter

druid 自动配置类

2.整合MyBatis

2.1生成MyBatis代码:

pom.xml

```
<!-- Mybatis-Generator插件, 自动生成代码 -->
       <plugin>
           <groupId>org.mybatis.generator</groupId>
           <artifactId>mybatis-generator-maven-plugin</artifactId>
           <version>1.3.5
           <configuration>
               <configurationFile>${project.basedir}/src/main/resources/generatorConfig
               <verbose>true</verbose>
               <overwrite>true</overwrite>
           </configuration>
           <dependencies>
               <!--必須要引入数据库驱动-->
               <dependency>
                   <groupId>mysql</groupId>
                   <artifactId>mysql-connector-java</artifactId>
                   <!--必须制定版本-->
                   <version>8.0.22
               </dependency>
           </dependencies>
       </plugin>
   </plugins>
</build>
```

generator Config.xml

```
1
2
3 <!DOCTYPE generatorConfiguration PUBLIC
4 "-//mybatis.org//DTD MyBatis Generator Configuration 1.0//EN"
5 "http://mybatis.org/dtd/mybatis-generator-config_1_0.dtd">
6 <generatorConfiguration>
```

```
<!--如果需要使用 command的方式生成需要配置数据库驱动的jar包路径
      <classPathEntry location="指定数据驱动的磁盘路径"/>-->
      <!--context 生成上下文 配置生成规则
             id 随意写
            targetRuntime 生成策略
14
                MyBatis3DynamicSql 默认的,会生成 动态生成sql的方式(没有xml)
                MvBatis3 生成通用的查询,可以指定动态where条件
                MyBatis3Simple 只生成简单的CRUD
      <context id="simple" targetRuntime="MyBatis3Simple">
         <commentGenerator>
             <!--设置是否生成注释 true 不生成 注意: 如果不生成注释,下次生成代码就不会进行合
             cproperty name="suppressAllComments" value="true"/>
         </commentGenerator>
         <!--数据源 -->
         <jdbcConnection driverClass="com.mysql.jdbc.Driver"</pre>
                        connectionURL="jdbc:mysql://localhost:3306/mybatis"
                        userId="root"
                        password="123456"/>
         <!--pojo
         javaModelGenerator java实体生成规则(POJO)
             targetPackage 生成到哪个包下
             targetProject 生成到当前文件的哪个相对路径下
         <javaModelGenerator targetPackage="cn.tulingxueyuan.pojo" targetProject="src/mai</pre>
         <!--mapper xml映射文件
             sqlMapGenerator mapper xml映射文件生成规则
             targetPackage 生成到哪个包下
             targetProject 生成到当前文件的哪个相对路径下
         <sqlMapGenerator targetPackage="cn.tulingxueyuan.mapper" targetProject="src/main</pre>
         <!--mapper接口
             javaClientGenerator mapper mapper接口生成规则
```

```
1.使用注解的方式生成
2.使用接口绑定的方式生成(要配置sqlMapGenerator)
targetPackage 生成到哪个包下
targetProject 生成到当前文件的哪个相对路径下-->
(javaClientGenerator type="XMLMAPPER" targetPackage="cn.tulingxueyuan.mapper" ta

(!--配置哪些表需要进行代码生成
tableName 表名
domainObjectName pojo类名
mapperName 对应mapper接口的类名 和 mapper xml文件名
-->
(table tableName="emp" domainObjectName="Emp" mapperName="EmpMapper" />

<table tableName="dept" domainObjectName="DeptMapper" /
```

运行插件---生成代码

2.2 整合Mybatis

1.引入jar包

1 2 **1**、引入Jar包

application.yml

```
1 mybatis:
2 # 映射文件所在路径
3 mapper-locations: classpath:mappers/*.xml
4 # pojo类所在包路径
5 type-aliases-package: com.cx.user.model
```

MyBatis自动配置原理

```
@Bean
@ConditionalOnMissingBean
public SqlSessionFactory sqlSessionFactory(DataSource dataSource) throws Exception {
  SqlSessionFactoryBean factory = new SqlSessionFactoryBean();
  factory.setDataSource(dataSource);
  factory.setVfs(SpringBootVFS.class);
  // 设置Mybaits的全局配置文件
  if (StringUtils.hasText(this.properties.getConfigLocation())) {
    factory.setConfigLocation(this.resourceLoader.getResource(this.properties.getConfigL
  applyConfiguration(factory);
  // 相当于mybatis全局配置文件中
  /*/*cproperties>
    cproperty name="" value=""/>
</properties>*/
  if (this.properties.getConfigurationProperties() != null) {
    factory.setConfigurationProperties(this.properties.getConfigurationProperties());
```

```
// 就是配置插件-拦截器 只需要配置一个实现了Interceptor的接口为Bean
 if (!ObjectUtils.isEmpty(this.interceptors)) {
   factory.setPlugins(this.interceptors);
 // 设置数据库厂商id
 if (this.databaseIdProvider != null) {
   factory.setDatabaseIdProvider(this.databaseIdProvider);
 // 设置别名: 去application.yml中獲取mybatis.typeAliasesPackage
 if (StringUtils.hasLength(this.properties.getTypeAliasesPackage())) {
   factory.setTypeAliasesPackage(this.properties.getTypeAliasesPackage());
 // 可以通过父类过滤哪些类需要使用别名
 比如: pojo.user extends basePojo
      pojo.user2
      去application.yml中设置mybatis.typeAliasesSuperType: com.tulingxueyuan.pojo.basePo
 if (this.properties.getTypeAliasesSuperType() != null) {
   factory.setTypeAliasesSuperType(this.properties.getTypeAliasesSuperType());
 // 设置类型处理器
<typeHandlers>
   <package name=""/>
</typeHandlers>
 if (StringUtils.hasLength(this.properties.getTypeHandlersPackage())) {
   factory.setTypeHandlersPackage(this.properties.getTypeHandlersPackage());
  // 设置类型处理器
<typeHandlers>
   <typeHandler handler=""
</typeHandlers>
 if (!ObjectUtils.isEmpty(this.typeHandlers)) {
   factory.setTypeHandlers(this.typeHandlers);
 // 设置mapper.xml映射文件: mapper-locations: classpath:com/tulingxueyuan/mapper/*Mapper
 if (!ObjectUtils.isEmpty(this.properties.resolveMapperLocations())) {
   factory.setMapperLocations(this.properties.resolveMapperLocations());
 Set<String> factoryPropertyNames = Stream
     .of(new BeanWrapperImpl(SqlSessionFactoryBean.class).getPropertyDescriptors()).map
     .collect(Collectors.toSet());
```

```
Class<? extends LanguageDriver> defaultLanguageDriver = this.properties.getDefaultScri
if (factoryPropertyNames.contains("scriptingLanguageDrivers") && !ObjectUtils.isEmpty(
// Need to mybatis-spring 2.0.2+
factory.setScriptingLanguageDrivers(this.languageDrivers);

if (defaultLanguageDriver == null && this.languageDrivers.length == 1) {
    defaultLanguageDriver = this.languageDrivers[0].getClass();
}

if (factoryPropertyNames.contains("defaultScriptingLanguageDriver")) {
    // Need to mybatis-spring 2.0.2+
    factory.setDefaultScriptingLanguageDriver(defaultLanguageDriver);
}

return factory.getObject();

return factory.getObject();
```

- 如果依然放不下mybatis全局配置文件, springboot 还是支持的:
 - 配置application.yml

```
1 mybatis:
2 config-location: classpath:mybatis-config.xml
```

mybatis-config.xml

```
17
18 </configuration>
```

- 如果要设置mybatis的settings怎么设置呢?
 - 1.可以通过mybatis全局配置文件设置
 - 2. 也可以通过在application.yml中配置configuration
 - configuration 它封装mybatis所有信息

```
configuration:
mapUnderscoreToCamelCase: true
```

- configuration 什么情况=null呢?
 - 。 没有在application.yml中配置configuration 就会为null
- 如果没有在application.yml中配置config-location 就会new new Configuration();
- 要定制mybatis
 - 1. 使用mybatis全局配置文件
 - 2. 可以使用application.yml中配置configuration + ConfigurationCustomizer
 - 。 要么使用mybatis的东西,要么使用springboot的, 只能用1种

```
private void applyConfiguration(SqlSessionFactoryBean factory) {
   Configuration configuration = this.properties.getConfiguration();
   if (configuration == null && !StringUtils.hasText(this.properties.getConfigLocation())
   configuration = new Configuration();
   }
   if (configuration != null && !CollectionUtils.isEmpty(this.configurationCustomizers));
   for (ConfigurationCustomizer customizer : this.configurationCustomizers) {
     customizer.customize(configuration);
   }
   }
   factory.setConfiguration(configuration);
}
```