```
1、配置:
   数据源 jdbcConnection
   Mapper 文件路径:sqlMapGenerator
   Mapper 接口文件路径:javaClientGenerator
   实体类路径: javaModelGenerator
   配置数据库表名: table
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE generatorConfiguration</pre>
       PUBLIC "-//mybatis.org//DTD MyBatis Generator Configuration 1.0//EN"
       "http://mybatis.org/dtd/mybatis-generator-config_1_0.dtd">
<generatorConfiguration>
   <context id="MysqlContext" targetRuntime="MyBatis3Simple"</pre>
defaultModelType="flat">
       cproperty name="beginningDelimiter" value="`"/>
       cproperty name="endingDelimiter" value="`"/>
       <!-- 通用 mapper 所在目录 -->
       <plugin type="tk.mybatis.mapper.generator.MapperPlugin">
           </plugin>
       <jdbcConnection driverClass="com.mysql.cj.jdbc.Driver"
connectionURL="jdbc:mysql://localhost:3306/shoppingstreet?useSSL=false&server
Timezone=UTC"
                      userId="root"
                      password="rootroot">
       </jdbcConnection>
       <!-- 对应生成的 pojo 所在包(实体类) -->
       <javaModelGenerator targetPackage="club.banyuan.entity"</pre>
targetProject="src/main/java"/>
     <!-- 对应生成的 mapper 所在目录(xml) -->
```

一、MyBatis 代码自动生成

运行: GeneratorDisplay 中的 main 方法

2、应用:

复制实体类,mapper 接口、sqlMapper 以及所有 Mapper 的父接口 MyMapper 到新建工程中 (注意:路径)

在新建工程引入:

二、Mapper 接口使用

在 pom 文件中导入 SpringBoot 和 MyBatis 所需的 jar

导入tk的MyBatis

导入测试用的 MyBatis-spring-boot-test 和 junit

```
<groupId>club.banyuan
<artifactId>GenerateBatisTest</artifactId>
<version>1.0-SNAPSHOT</version>
<packaging>war</packaging>
<parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>2.3.1.RELEASE</version>
    <relativePath/> <!-- lookup parent from repository -->
</parent>
properties>
    <java.version>1.8</java.version>
</properties>
<dependencies>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
        <exclusions>
            <exclusion>
                 <groupId>org.junit.vintage</groupId>
                 <artifactId>junit-vintage-engine</artifactId>
             </exclusion>
        </exclusions>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-tomcat</artifactId>
        <scope>provided</scope>
    </dependency>
    <dependency>
```

```
<groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>8.0.20</version>
    </dependency>
    <!--mybatis-->
    <dependency>
        <groupId>org.mybatis.spring.boot</groupId>
        <artifactId>mybatis-spring-boot-starter</artifactId>
        <version>1.3.1</version>
    </dependency>
    <!--mapper-->
    <dependency>
        <groupId>tk.mybatis
        <artifactId>mapper-spring-boot-starter</artifactId>
        <version>1.2.4</version>
    </dependency>
    <dependency>
        <groupId>org.mybatis.spring.boot</groupId>
        <artifactId>mybatis-spring-boot-starter-test</artifactId>
        <version>1.3.2</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>junit
        <artifactId>junit</artifactId>
        <version>4.13</version>
        <scope>test</scope>
    </dependency>
</dependencies>
<build>
    <plugins>
        <plugin>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-plugin</artifactId>
        </plugin>
```

配置 SpringBoot 和 MyBatis 所需的信息 resources/application.yml

```
mybatis:
    type-aliases-package: club.banyuan.entity
    mapper-locations: classpath:club/banyuan/mapper/*Mapper.xml

spring:
    datasource:
    driverClassName: com.mysql.cj.jdbc.Driver
    url:

jdbc:mysql://localhost:3306/shoppingstreet?&useSSL=false&serverTimezone=UTC
    username: root
    password: rootroot
```

在 test 路径下新建测试类, 注意: 测试类与启动类在同级目录下

在启动类中,配置 mapper 接口的路径,注意使用的是 tk.mybatis 中的 @MapperScanner 注解

```
package club.banyuan;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import tk.mybatis.spring.annotation.MapperScan;

@SpringBootApplication
@MapperScan(basePackages = "club.banyuan.mapper")
public class SpringBootApp {
    public static void main(String[] args) {
        SpringApplication.run(SpringBootApp.class);
    }
}
```

三、分页插件

在 pom 中引入分页插件的 jar

```
<dependency>
  <groupId>com.github.pagehelper</groupId>
```

```
<artifactId>pagehelper-spring-boot-starter</artifactId>
    <version>1.2.5</version>
</dependency>
```

创建 PageBean, 封装分页所需数据

```
package club.banyuan.common;
import java.util.List;
public class PageBean<T> {
   // 当前页
    private Integer currentPage = 1;
   // 每页显示的总条数
   private Integer pageSize = 10;
   // 总条数
   private Integer totalNum;
   // 是否有下一页
   private Integer isMore;
   // 总页数
    private Integer totalPage;
   // 开始索引
    private Integer startIndex;
   // 分页结果
    private List<T> items;
    public PageBean() {
        super();
   }
    public PageBean(Integer currentPage, Integer pageSize, Integer totalNum) {
        super();
        this.currentPage = currentPage;
        this.pageSize = pageSize;
        this.totalNum = totalNum;
        this.totalPage = (this.totalNum + this.pageSize - 1) / this.pageSize;
```

```
this.startIndex = (this.currentPage - 1) * this.pageSize;
    this.isMore = this.currentPage >= this.totalPage ? 0 : 1;
}
public Integer getCurrentPage() {
    return currentPage;
}
public void setCurrentPage(Integer currentPage) {
    this.currentPage = currentPage;
}
public Integer getPageSize() {
    return pageSize;
}
public void setPageSize(Integer pageSize) {
    this.pageSize = pageSize;
}
public Integer getTotalNum() {
    return totalNum;
}
public void setTotalNum(Integer totalNum) {
    this.totalNum = totalNum;
}
public Integer getIsMore() {
    return isMore;
}
public void setIsMore(Integer isMore) {
    this.isMore = isMore;
}
```

```
public Integer getTotalPage() {
         return totalPage;
    }
    public void setTotalPage(Integer totalPage) {
         this.totalPage = totalPage;
    }
    public Integer getStartIndex() {
         return startIndex;
    }
    public void setStartIndex(Integer startIndex) {
         this.startIndex = startIndex;
    }
    public List<T> getItems() {
         return items;
    }
    public void setItems(List<T> items) {
         this.items = items;
    }
}
```

在 service 中编写分页代码

```
import club.banyuan.common.PageBean;
import club.banyuan.entity.News;
import club.banyuan.mapper.NewsMapper;
import club.banyuan.service.NewsService;
import com.github.pagehelper.PageHelper;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
```

```
import java.util.List;
@Service
public class NewsServiceImpl implements NewsService {
   @Autowired
   private NewsMapper newsMapper;
   @Override
   public PageBean<News> getNewsByPage(int currentPage, int pageSize) {
       //设置分页信息,分别是当前页数和每页显示的总记录数
       // 【记住:必须在 mapper 接口中的方法执行之前设置该分页信息】
       PageHelper.startPage(currentPage,pageSize);
       List<News> newsList = newsMapper.selectAll();
       int count = newsMapper.selectCount(new News());
       PageBean<News> pageBean = new
PageBean<>(currentPage,pageSize,count);
       pageBean.setItems(newsList);
       return pageBean;
   }
}
```

为 PageHelper 添加数据库方言配置

```
pagehelper:
helper-dialect: mysql
reasonable: true
supportMethodsArguments: true
params: count=countSql
offset-as-page-num: true
row-bounds-with-count: true
```

测试:

```
package club.banyuan;
import club.banyuan.common.PageBean;
```

```
import club.banyuan.entity.News;
import club.banyuan.service.NewsService;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringJUnit4ClassRunner;
import java.util.List;
@RunWith(SpringJUnit4ClassRunner.class)
@SpringBootTest
public class TestNewsService {
    @Autowired
    private NewsService newsService;
    @Test
    public void testGetNewsByPage(){
        PageBean<News> pageBean = newsService.getNewsByPage(100,5);
        List<News> newsList = pageBean.getItems();
        for (News news : newsList) {
             System.out.println(news);
        }
    }
}
```