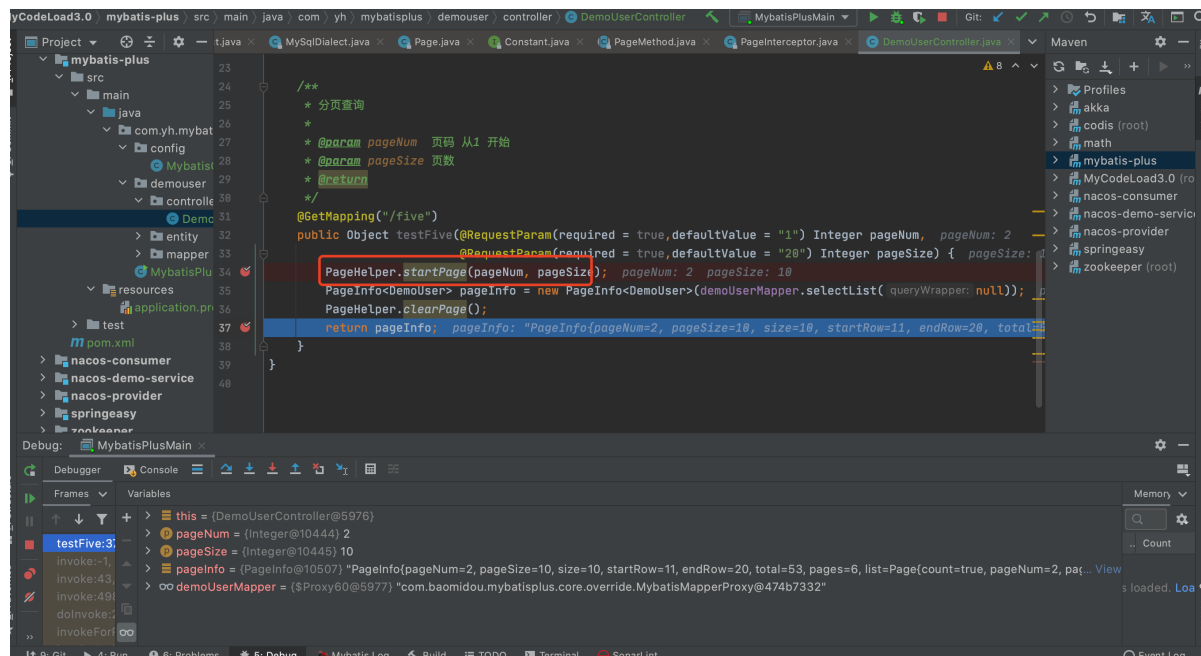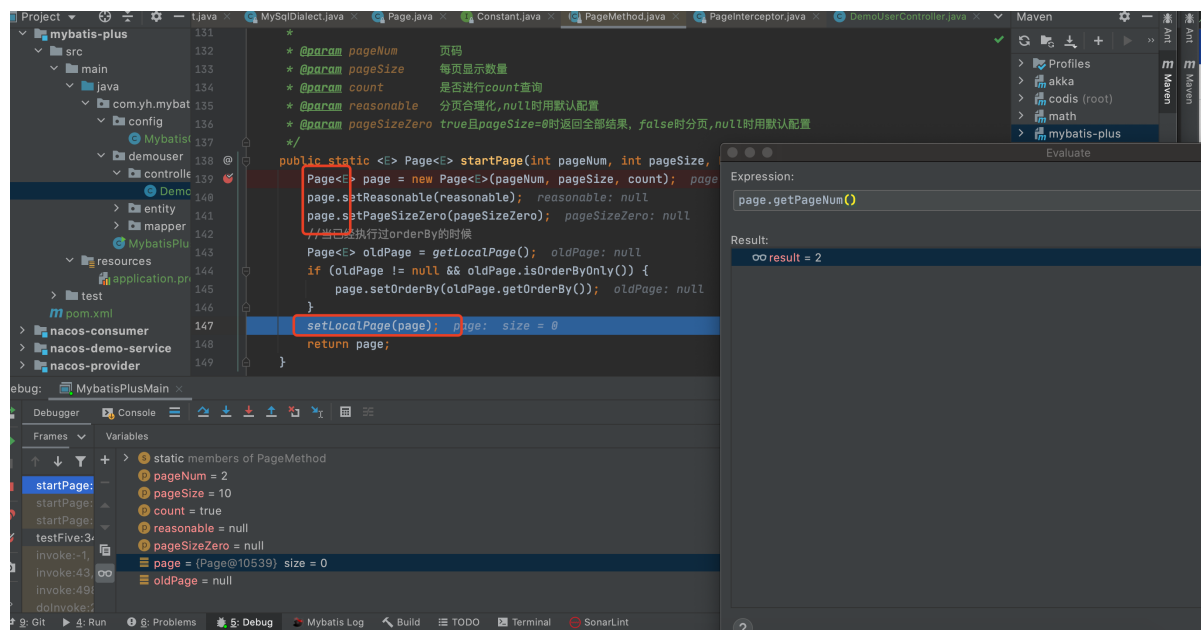# Mybatis-Plus PageHelper 分页插件解析
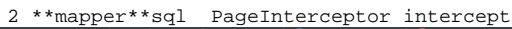
用法示例

```
PageHelper.startPage(pageNum, pageSize);
PageInfo<DemoUser> pageInfo = new PageInfo<DemoUser>(demoUserMapper.selectList(null));
PageHelper.clearPage();
```
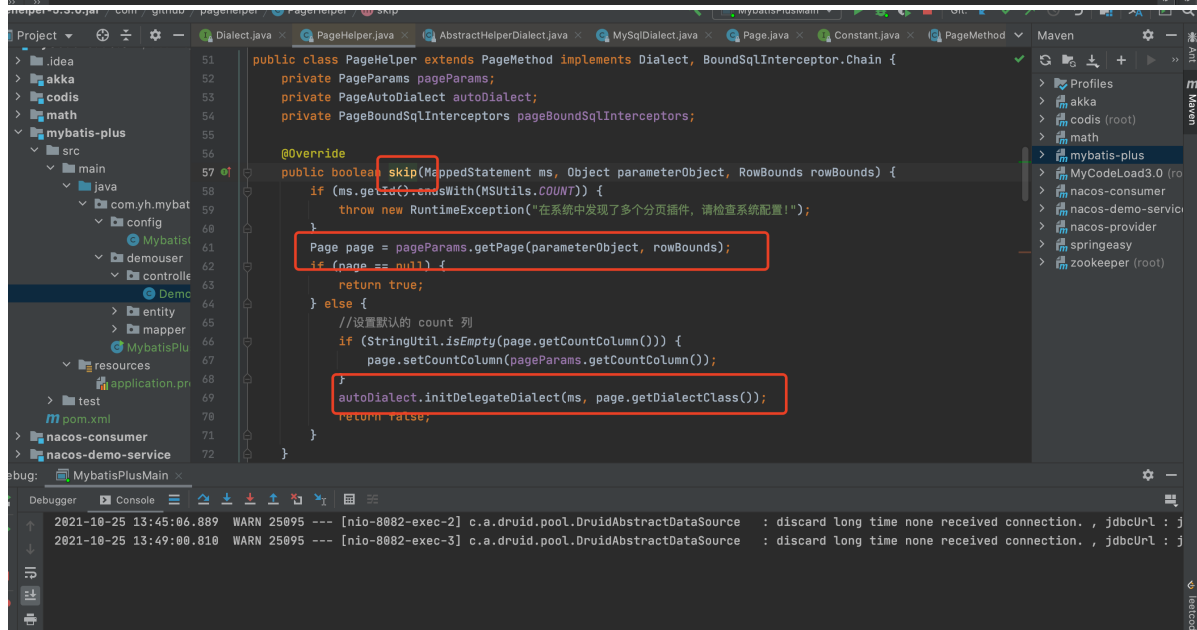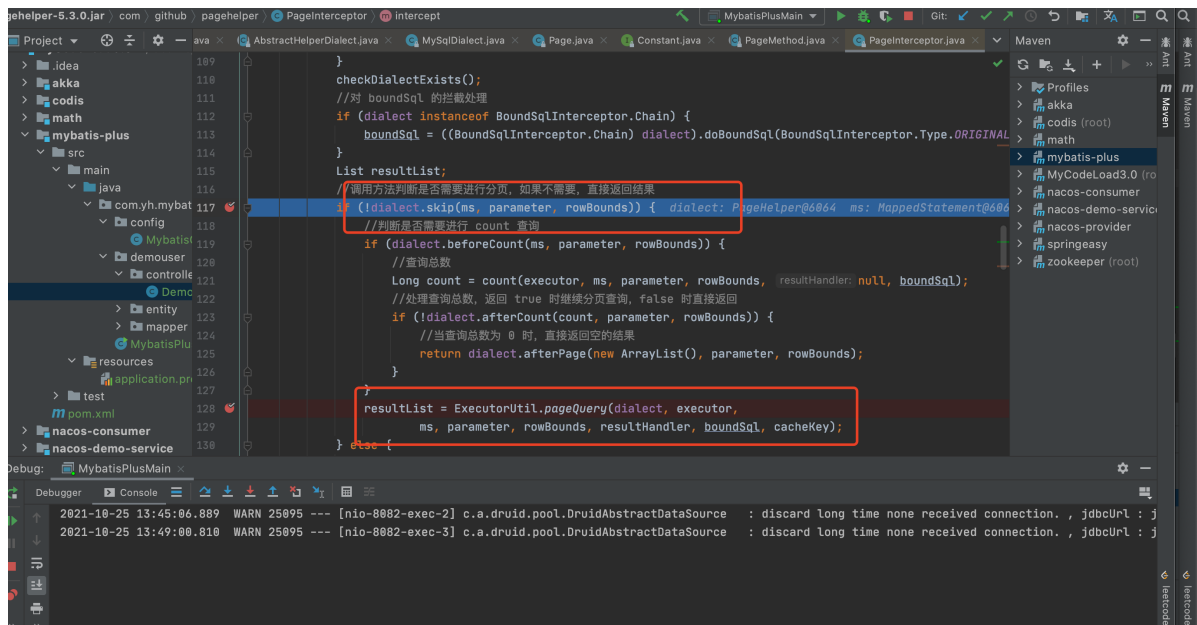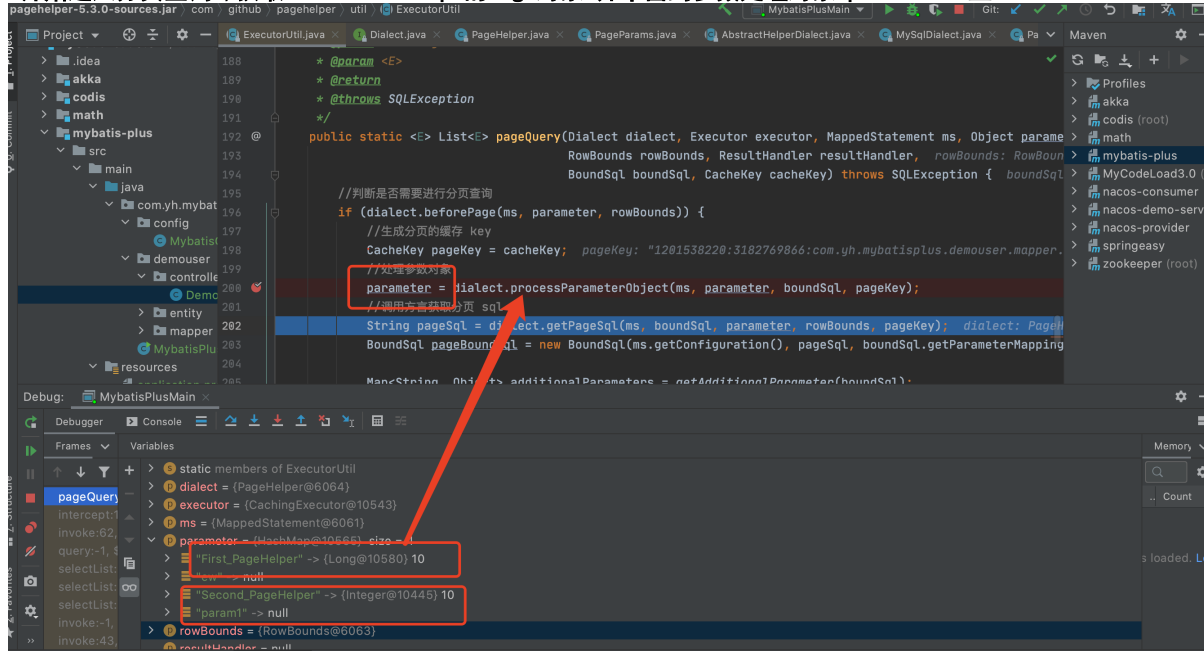

源码解析

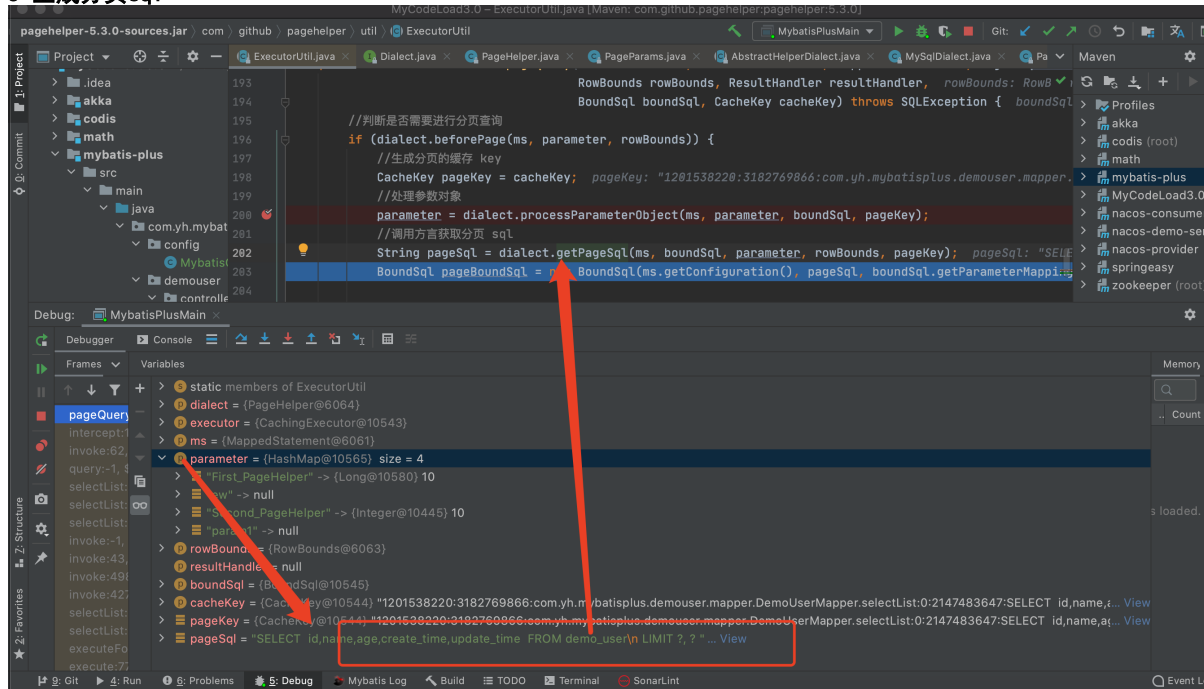1 开启分页，将分页参数 包装成Page 分页对象 ，并且保存在当前线程 LocalthreadMap里

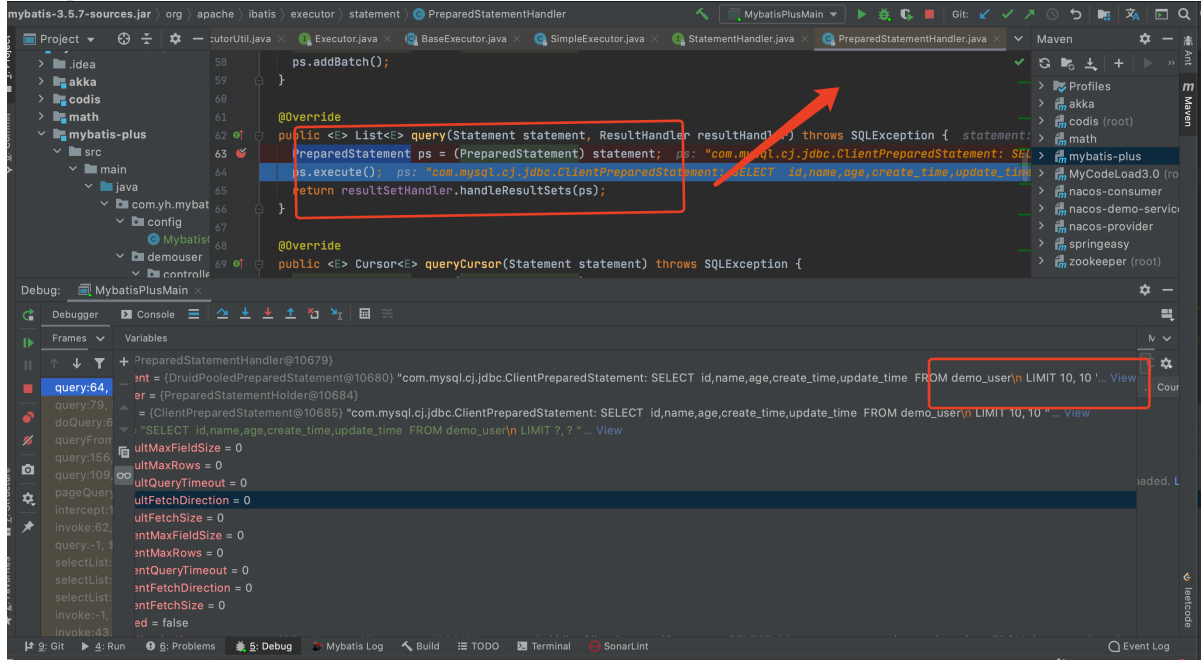2 **mapper**sql PageInterceptor intercept

3 intercept (: ThreadLocalMap Page)

Project ▼

AbstractHelperDialect.java | MySqlDialect.java | Page.java | Constant.java | PageMethod.java | PageInterceptor.java

Maven

```
109                }
110                checkDialectExists();
111                //对 boundSql 的拦截处理
112                if (dialect instanceof BoundSqlInterceptor.Chain) {
113                    boundSql = ((BoundSqlInterceptor.Chain) dialect).doBoundSql(BoundSqlInterceptor.Type.ORIGINAL
114                }
115                List resultList;
116                //调用方法判断是否需要进行分页，如果不需要，直接返回结果
117                if (!dialect.skip(ms, parameter, rowBounds)) {    dialect: PageHelper@6864    ms: MappedStatement@686
118                    //判断是否需要进行 count 查询
119                    if (dialect.beforeCount(ms, parameter, rowBounds)) {
120                        //查询总数
121                        Long count = count(executor, ms, parameter, rowBounds, resultHandler: null, boundSql);
122                        //处理查询总数，返回 true 时继续分页查询，false 时直接返回
123                        if (!dialect.afterCount(count, parameter, rowBounds)) {
124                            //当查询总数为 0 时，直接返回空的结果
125                            return dialect.afterPage(new ArrayList(), parameter, rowBounds);
126                        }
127                    }
128                    resultList = ExecutorUtil.pageQuery(dialect, executor,
129                            ms, parameter, rowBounds, resultHandler, boundSql, cacheKey);
130                } else {
```

Debug: MybatisPlusMain

Debugger Console

```
2021-10-25 13:45:06.889  WARN 25095 --- [nio-8082-exec-2] c.a.druid.pool.DruidAbstractDataSource    : discard long time none received connection. , jdbcUrl : j
2021-10-25 13:49:00.810  WARN 25095 --- [nio-8082-exec-3] c.a.druid.pool.DruidAbstractDataSource    : discard long time none received connection. , jdbcUrl : j
```

Project ▼

Dialect.java | PageHelper.java | AbstractHelperDialect.java | MySqlDialect.java | Page.java | Constant.java | PageMethod

Maven

```
51    public class PageHelper extends PageMethod implements Dialect, BoundSqlInterceptor.Chain {
52        private PageParams pageParams;
53        private PageAutoDialect autoDialect;
54        private PageBoundSqlInterceptors pageBoundSqlInterceptors;
55
56        @Override
57        public boolean skip(MappedStatement ms, Object parameterObject, RowBounds rowBounds) {
58            if (ms.getId().endsWith(MSUtils.COUNT)) {
59                throw new RuntimeException("在系统中发现了多个分页插件，请检查系统配置！");
60            }
61            Page page = pageParams.getPage(parameterObject, rowBounds);
62            if (page == null) {
63                return true;
64            } else {
65                //设置默认的 count 列
66                if (StringUtil.isEmpty(page.getCountColumn())) {
67                    page.setCountColumn(pageParams.getCountColumn());
68                }
69                autoDialect.initDelegateDialect(ms, page.getDialectClass());
70                return false;
71            }
72        }
```

Debug: MybatisPlusMain

Debugger Console

```
2021-10-25 13:45:06.889  WARN 25095 --- [nio-8082-exec-2] c.a.druid.pool.DruidAbstractDataSource    : discard long time none received connection. , jdbcUrl : j
2021-10-25 13:49:00.810  WARN 25095 --- [nio-8082-exec-3] c.a.druid.pool.DruidAbstractDataSource    : discard long time none received connection. , jdbcUrl : j
```

4开始进入分页查询，获取LocalThreadMap 的Page对象 并丰富到参数处理对象 parameter 上

5 生成分页sql

6 PreparedStatement

7 PageHelper.clearPage()ThreadLocalMap