DNA 元基索引 ETL 中文脚本编译机 V0.0.2

罗瑶光
430181198505250014
313699483@qq.com
浏阳德塔软件开发有限公司

1 介绍

DNA 元基索引 ETL 中文脚本编译机 前身是《Deta Socket 流 PLSQL 数据库》的 Query 指令集编译机。在养疗经的内存计算中，作者开始逐步的将编译机的命令中文化和 参与 ETL， TCP，内存 和 中药表格筛选 搜索计算，于是开始命令扩充和整体逻辑优化。将 shell 命令进行 元基分类标识 和 索引管理，于是这个项目发展起来。
项目时间 2021 年 9 月 22 日~ 2021 年 10 月 17 日

2 动机

2.1 作者思考命令行编程 （Programmable Language SQL）PLSQL 进行数据库操作，同理可以进行其他类的数据操作如内存数据。需要进行论证。

2.2 作者的父亲经常对作者说 养疗经的操作选项组件太多， 界面繁琐会让人眼花。作者思考需要一种便携统一的方式来简化使用逻辑。

2.3 作者使用 ETL Unicron 总是不经意的思考每个节点就要设计一个节点界面，消耗大量前端人力和时间，作者思考需要一种便携统一的方式来简化使用逻辑。

2.4 作者在 WCC 2021 长沙开幕式 听了周向宇先生一堂课 说 古人的古书语文作品中蕴含数学逻辑，如愚公移山的故事蕴藏 数列的极限和迭代逻辑等 F（n）= f（n + 1）。。。 作者思考把 《Deta Socket 流 PLSQL 数据库》的 PLSQL 指令翻译成 中文试试， 以后能使用命令的就不再只有程序员的群体了 比如父亲。

2.5 作者在《DNA 元基催化与肽计算 第三修订版》的元基卷积 ETL 两章有描述元基矩阵记忆流 和 元基 DNN 计算流 两种节点模式，于是思考如何开始论证 思考 计算流和记忆流 的表达模式。

2.6 作者的 DNA 元基 TVM 虚拟机需要一个切入点，ETL 中文脚本编译机 恰好充当一个基础原型机。
于是这个项目开始了。

3 适用

3.1 该项目适用于所有并发的决策流内存计算场景。

3.2 该项目适用于编码能力薄弱的客户群体，非程序员群体。

3.3 该项目适用于各种复杂的工业基础体系, 如大数据计算类， 内存计算类，工业调度类，等。。

4 逻辑

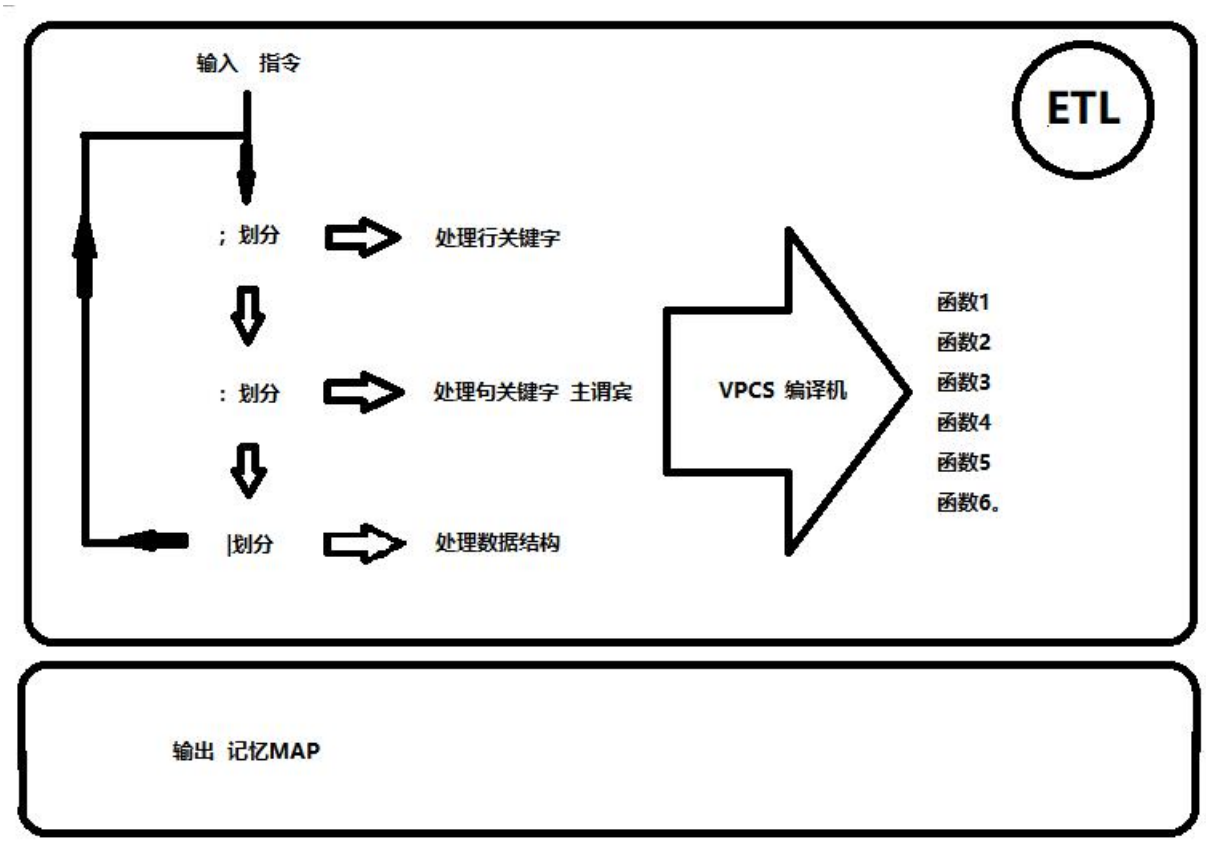
4.1 PLSEARCH 包含可编程搜索命令 概念作者首发
将 德塔 PLSQL 中非 join table 的命令拿出来 优化成适用于 内存计算的命令。

4.2 PLETL 包含可编程节点流操作 概念作者首发
将 ETL 的节点流配置执行界面设计成

命令如下
PLETL:中节点|进行表格相交|主码为|ID|模式为|新增列;
PLETL:中节点|进行表格相交|主码为|ID|模式为|叠加列;
PLETL:中节点|进行表格相交|主码为|ID|模式为|有交集叠加列;
PLETL:中节点|进行表格相交|主码为|ID|模式为|有交集新增列;
PLETL:中节点|进行表格相交|主码为|ID|模式为|无交集新增列;

PLETL:中节点|进行表格剔除|主码为|ID|模式为|相交部分剔除;
PLETL:中节点|进行表格合并|主码为|ID|模式为|新增列;
PLETL:中节点|进行表格合并|主码为|ID|模式为|叠加列;
PLETL:中节点|进行表格合并|主码为|ID|模式为|有交集叠加列;
PLETL:中节点|进行表格合并|主码为|ID|模式为|有交集新增列;
PLETL:中节点|进行表格合并|主码为|ID|模式为|无交集新增列;

4.3 PLTCP 包含可编程网络请求 概念作者首发
4.4 PLSQL 可编程数据库操作 概念美国甲骨文公司首发
4.5 Tin Map ETL 节点 与 Tin Shell 编译机指令执行 的逻辑原理图



5 使用方法

5.1 指令集 已有中文命令分类 如下

操作

条件为

获取表名

获取表列名

进行分词

词性标注

词性显色

DNN

颜色标记为

红色

蓝色

黄色

绿色

进行字符排序

进行数字排序

从小到大

从大到小

行至

包含

改名为

过滤掉

不包含

进行选择

精度搜索

PLETL

中节点

进行表格相交

进行表格合并

进行表格剔除

主码为

ID

模式为

相交部分剔除

新增列

叠加列

有交集叠加列

有交集新增列

无交集新增列

其他非中文命令见 德塔 PLSQL 文档

PLTCP
进行 WEB 请求
接口为
端口为
操作为

语法为
；一个 shell 句型分隔
：一个 shell 函数分隔
| 一个 shell 对象分隔

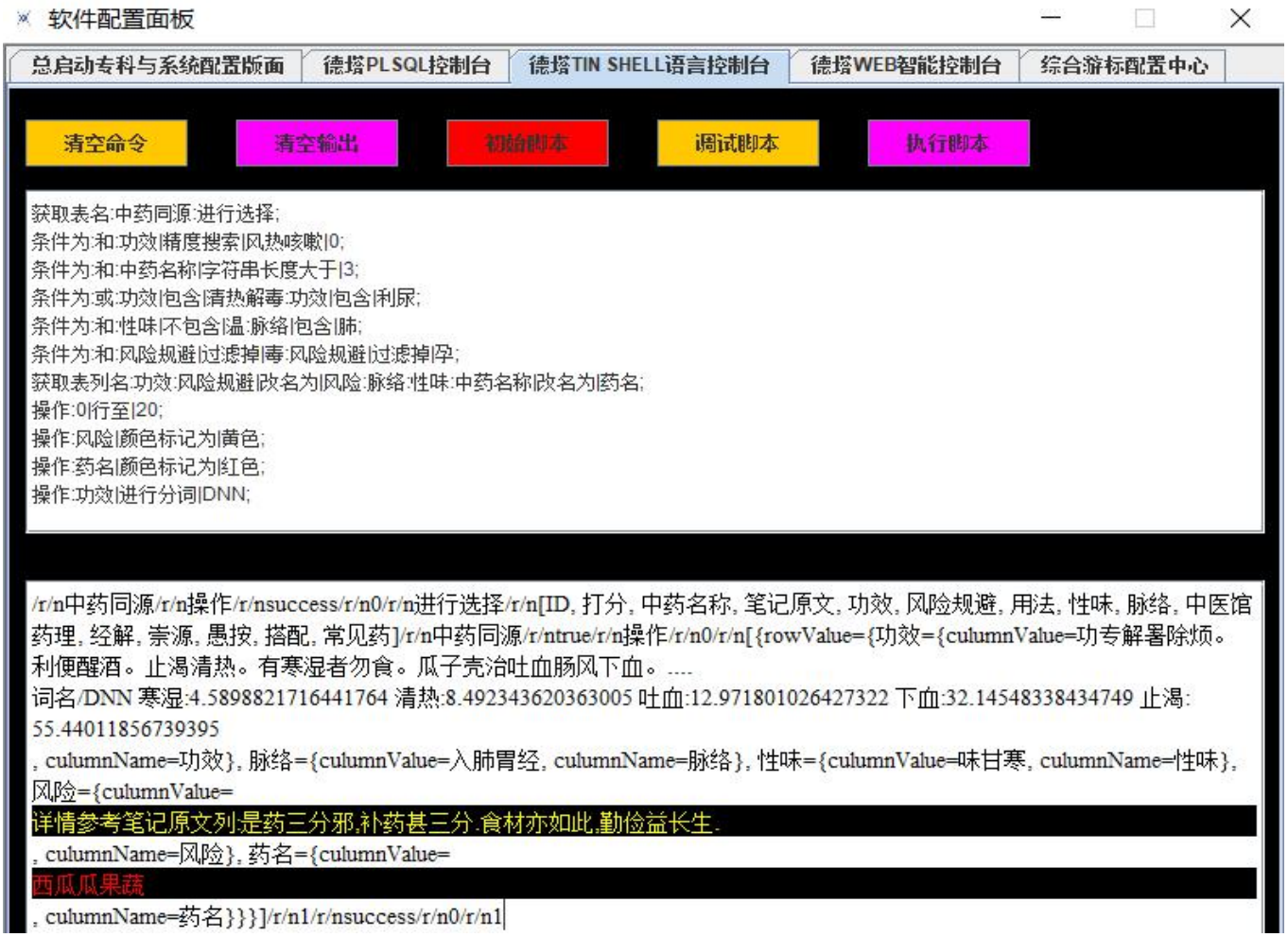
5.2 组合方式示例
5.2.1 完整句型
获取表名:中药同源:进行选择;
条件为:和:功效|精度搜索|风热咳嗽|0;
条件为:和:中药名称|字符串长度大于|3;
条件为:或:功效|包含|清热解毒:功效|包含|利尿;
条件为:和:性味|不包含|温:脉络|包含|肺;
条件为:和:风险规避|过滤掉|毒:风险规避|过滤掉|孕;
获取表列名:功效:风险规避|改名为|风险:脉络:性味:中药名称|改名为|药名;
操作:0|行至|20;
操作:风险|颜色标记为|黄色;
操作:药名|颜色标记为|红色;
操作:功效|进行分词|DNN;

5.2.2 流句型 完整测试指令如下：
节点 1
获取表名:中医诊断:进行选择;
条件为:和:笔记|包含|发热:笔记|包含|身重;
获取表列名 ID 病症;
操作:0|行至|30;
节点 1->2
操作:病症|进行分词|词性显色;
节点 1->3
操作:病症|进行分词|DNN;
节点（（1->2）+（1->3））->4
PLETL:中节点|进行表格合并|主码为|ID|模式为|新增列;
操作:ID|进行数字排序|从小到大;
操作:ID|颜色标记为|红色;

5.2.3 流并发句型
节点（（1->2）+（1->3））->4
PLETL:中节点|进行表格合并|主码为|ID|模式为|新增列;
操作:ID|进行数字排序|从小到大;
操作:ID|颜色标记为|红色;

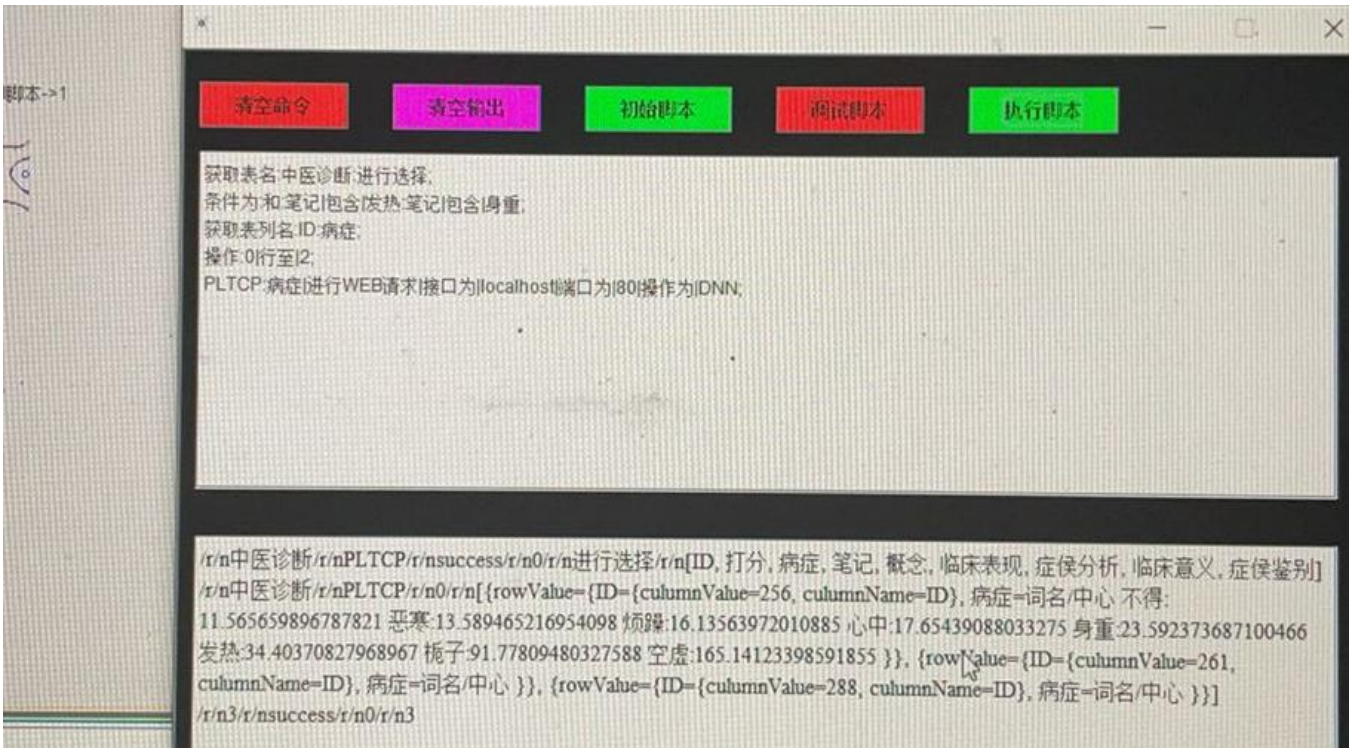
6 展示

6.1 单一 TinShell 执行 PLSearch



6.2 多节点 Tinshell 执行并发 PLETL

6.3 节点 Tinshell 执行 PLTCP HTTP 接口 请求



6.4 节点 Tinshell 流并发多功能执行业务逻辑。

7 源码

```
package OSM.shell;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import OSA.shell.Pl_XA_E;
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作  罗瑶光
public class E_pl_XA_E {
	public static Map<String, Object> E_PLSearch(String plSearch, boolean mod, Map<String, Object> output)
throws Exception{
		//working for here
		//Map<String, Object> output= new ConcurrentHashMap<>();
		//1make container
		if(null= = output) {
			output= new ConcurrentHashMap<>();
		}
		output.put("firstTime", "true");
		output.put("start", "0");
		output.put("countJoins", "0");
		//2make line
		String[] commands= plSearch.replace(" ", "").replace("\n", "").split(";");
		String[] acknowledge= null;
		for(String command:commands) {
			acknowledge= command.split(":");
			if(acknowledge[0].equals("setRoot")) {
				Pl_XA_Command_E.P_SetRoot(acknowledge, output);
			}
			if(acknowledge[0].equals("baseName")) {
				Pl_XA_Command_E.P_BaseName(acknowledge, output);
			}
			if(acknowledge[0].equals("获取表名")) {
				Pl_XA_Command_E.P_TableName(acknowledge, output);
			}
			if(acknowledge[0].equals("culumnName")) {
				Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
			}
			if(acknowledge[0].equals("changeCulumnName")) {
				Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
			}
			if(acknowledge[0].equals("culumnValue")) {
				Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
			}
			if(acknowledge[0].equals("join")) {
				Pl_XA_Command_E.P_Join(acknowledge, output);
			}
			if(acknowledge[0].equals("条件为")) {
				Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
			}
			if(acknowledge[0].equals("relation")) {
```

```
                    Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
                }
                if(acknowledge[0].equals("操作")) {
                    Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
                }
                if(acknowledge[0].equals("PLETL")) {
                    Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
                }
                if(acknowledge[0].equals("获取表列名")) {
                    Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
                }
                if(acknowledge[0].equals("PLTCP")) {
                    Pl_XA_Command_E.P_ListNeedStart(acknowledge, output);
                }
                output.put("newCommand", acknowledge[0]);
                Pl_XA_Command_E.P_E(acknowledge, output, mod);
                output.put("lastCommand", output.get("newCommand"));
            }
            if(null!= acknowledge) {
                if(output.get("start").toString().equals("1")) {
                    Pl_XA_Command_E.P_E(acknowledge, output, mod);
                }
            }
            System.out.println("1");
            Pl_XA_Command_E.P_Check(output.get("newCommand").toString(), output, mod);
            return output;
        }
        public static Map<String, Object> E_PLSearch(Pl_XA_E orm, boolean b, Map<String, Object> output) throws
Exception {
            return E_PLSearch(orm.getPLSearch(), true, output);
        }
}
```

```
package OSM.shell;
import java.io.IOException;
import java.math.BigDecimal;
import java.net.URLEncoder;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import ME.APM.VSQ.HRJFrame;
import MSV.OSQ.sets.DetaDouble;
import OEU.LYG4DQS4D.LYG10DWCMSSort13D_XCDX_C_A_S;
import OEU.LYG4DQS4D.LYG9DWithDoubleTopSort4D;
import OEU.LYG4DQS4D.Quick_7D_luoyaoguang_Sort;
import OSI.AOP.PCS.PP.port_E.RestNLPPortImpl;
```

```
import OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell.TinMap;
import PEQ.AMV.ECS.test.ANNTest;
import PEQ.AMV.ECS.test.DNNTest;
import PEQ.AMV.ECS.test.SensingTest;
import PEU.P.table.TableSorterZYNK;
@SuppressWarnings({"unused"})
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作 罗瑶光
//pletl 先实现 上中下的 tinmap 中指令合并
//设计了简答宾语补足语，有时间思考下 定语和 slang 的模式 和成语模式 罗瑶光
public class P_AO_PLETL {
    @SuppressWarnings({"unchecked"})
    public static void P_PletlLimitMap(String[] sets, List<Map<String, Object>> output, Map<String, Object>
object)
        throws InstantiationException, IllegalAccessException, IOException {
        List<Map<String, Object>> outputTemp= new ArrayList<>();
        //中节点|表格合并|主码|新增列|ID|。。
        //上节点是 main 节点作为 accumulator，模拟 rna 芯片计算容器，中下节点模拟神经元记忆接口。
        //设计宾语补足语 今天改为如下 20211011 罗瑶光
        //PLETL:中节点|进行表格合并|主码为|ID|模式为|新增列;
        //PLETL:中节点|进行表格合并|主码为|ID|模式为|叠加列;
        //PLETL:中节点|进行表格合并|主码为|ID|模式为|有交集叠加列;
        //PLETL:中节点|进行表格合并|主码为|ID|模式为|有交集新增列;
        //PLETL:中节点|进行表格合并|主码为|ID|模式为|无交集新增列;
        if(sets[1].equalsIgnoreCase("进行表格合并")) {
            TinMap mapShell= null;
            String 列标识= null;
            if(sets[0].equalsIgnoreCase("中节点")) {
                mapShell= (TinMap)object.get("midShell");
                列标识= "m_";
            }
            if(sets[0].equalsIgnoreCase("下节点")) {
                mapShell= (TinMap)object.get("downShell");
                列标识= "d_";
            }
            //将上面进行内外循环 颠倒 rotation 如下
            if(sets[2].equalsIgnoreCase("主码为")) {//先单一 primary key， 之后再设计 forenge key 和
combination key
                //To do。。。初始
                Map<String, Object> tinShellETL= (Map<String, Object>)mapShell.get("TinShellETL");
                List<Map<String, Object>> rowList= (List<Map<String, Object>>)tinShellETL.get("obj");
                //主循环
                List<Map<String, Object>> 主要输入轮训= (List<Map<String, Object>>)object.get("obj");
                Iterator<Map<String, Object>> outputTempIterator= 主要输入轮训.iterator();
                while(outputTempIterator.hasNext()) {
                    Map<String, Object> rowOutputTempIterator= outputTempIterator.next();
                    Map<String, Object> rowValueRowOutputTempIterator
                    = (Map<String, Object>)rowOutputTempIterator.get("rowValue");
                    if(0!= rowList.size()) {
                        //辅循环
```

```
                        Iterator<Map<String, Object>> iterator= rowList.iterator();
                        Here:
                            while(iterator.hasNext()) {//非主要输入轮训
                                Map<String, Object> row= iterator.next();
                                Map<String, Object> rowValue= (Map<String, Object>)row.get("rowValue");
                        Map<String, Object> culumnValue= (Map<String, Object>)rowValue.get(sets[3]);
                                //outputTemp
                                if(rowValueRowOutputTempIterator.containsKey(sets[3])) {
                                    Map<String, Object> rowValueRowOutputTempIteratorCulumnValue
                                    = (Map<String, Object>)rowValueRowOutputTempIterator.get(sets[3]);
                                    //合并 rowValueRowOutputTempIteratorCulumnValue 与 culumnValue
                                    //合并方式，1 叠加列合并 2 新增列合并
                                    //先实现简单的 新增列合并
                                    //在执行前进行 sets[3]相等检查
if(rowValueRowOutputTempIteratorCulumnValue.get("culumnValue").equals(culumnValue.get("culumnValue"))) {
                                        if(sets[4].equalsIgnoreCase("模式为")) {
                                    model(sets, rowValue, 列标识, rowValueRowOutputTempIterator);
                                        }
                                    }
                                    //其他定状补语 函数
                                    //。。。
                                    //。。。
                                    //。
                                }
                                rowOutputTempIterator.put("rowValue", rowValueRowOutputTempIterator);
                            }
                        }
                        outputTemp.add(rowOutputTempIterator);
                    }
                }
                //if(sets[2].equalsIgnoreCase("自由定义各种命令。。")) {
                ////To do。。。
                //    }
                output.clear();
                output.addAll(outputTemp);
            }
            //设计点 相交
            //PLETL:中节点|进行表格相交|主码为|ID|模式为|新增列;
            //PLETL:中节点|进行表格相交|主码为|ID|模式为|叠加列;
            //PLETL:中节点|进行表格相交|主码为|ID|模式为|有交集叠加列;
            //PLETL:中节点|进行表格相交|主码为|ID|模式为|有交集新增列;
            //PLETL:中节点|进行表格相交|主码为|ID|模式为|无交集新增列;
            if(sets[1].equalsIgnoreCase("进行表格相交")) {
                TinMap mapShell= null;
                String 列标识= null;
                if(sets[0].equalsIgnoreCase("中节点")) {
                    mapShell= (TinMap)object.get("midShell");
                    列标识= "m_";
                }
```

```
            if(sets[0].equalsIgnoreCase("下节点")) {
                mapShell= (TinMap)object.get("downShell");
                列标识= "d_";
            }
            //将上面进行内外循环 颠倒 rotation 如下
            if(sets[2].equalsIgnoreCase("主码为")) {//先单一 primary key， 之后再设计 forenge key 和 combination key
                //To do。。。初始
                Map<String, Object> tinShellETL= (Map<String, Object>)mapShell.get("TinShellETL");
                List<Map<String, Object>> rowList= (List<Map<String, Object>>)tinShellETL.get("obj");
                //主循环
                List<Map<String, Object>> 主要输入轮训= (List<Map<String, Object>>)object.get("obj");
                Iterator<Map<String, Object>> outputTempIterator= 主要输入轮训.iterator();
                while(outputTempIterator.hasNext()) {
                    Map<String, Object> rowOutputTempIterator= outputTempIterator.next();
                    Map<String, Object> rowValueRowOutputTempIterator
                    = (Map<String, Object>)rowOutputTempIterator.get("rowValue");
                    boolean findConjunction= false;
                    if(0!= rowList.size()) {
                        //辅循环
                        Iterator<Map<String, Object>> iterator= rowList.iterator();
                        while(iterator.hasNext()) {//非主要输入轮训
                            Map<String, Object> row= iterator.next();
                            Map<String, Object> rowValue= (Map<String, Object>)row.get("rowValue");
                            Map<String, Object> culumnValue= (Map<String, Object>)rowValue.get(sets[3]);
                            //outputTemp
                            if(rowValueRowOutputTempIterator.containsKey(sets[3])) {
                                Map<String, Object> rowValueRowOutputTempIteratorCulumnValue
                                = (Map<String, Object>)rowValueRowOutputTempIterator.get(sets[3]);
                                //合并 rowValueRowOutputTempIteratorCulumnValue 与 culumnValue
                                //合并方式，1 叠加列合并 2 新增列合并
                                //先实现简单的 新增列合并
                                //在执行前进行 sets[3]相等检
if(rowValueRowOutputTempIteratorCulumnValue.get("culumnValue").equals(culumnValue.get("culumnValue"))) {
//以后命令多了优化
                                    findConjunction= true;
                                    if(sets[4].equalsIgnoreCase("模式为")) {
                                        model(sets, rowValue, 列标识, rowValueRowOutputTempIterator);
                                    }
                                }
                                //其他定状补语 函数
                                //。。。
                                //。。。
                                //。
                            }
                            rowOutputTempIterator.put("rowValue", rowValueRowOutputTempIterator);
                        }
                    }
                    if(true= = findConjunction) {//有交集的行才保留
```

```
                        outputTemp.add(rowOutputTempIterator);
                    }
                }
            }
            //if(sets[2].equalsIgnoreCase("自由定义各种命令。。")) {
            ////To do。。。
            //    }
            output.clear();
            output.addAll(outputTemp);
        }
        //PLETL:中节点|进行表格剔除|主码为|ID|模式为|相交部分剔除;
        if(sets[1].equalsIgnoreCase("进行表格剔除")) {
            TinMap mapShell= null;
            String  列标识= null;
            if(sets[0].equalsIgnoreCase("中节点")) {
                mapShell= (TinMap)object.get("midShell");
                列标识= "m_";
            }
            if(sets[0].equalsIgnoreCase("下节点")) {
                mapShell= (TinMap)object.get("downShell");
                列标识= "d_";
            }
            //将上面进行内外循环  颠倒 rotation  如下
            if(sets[2].equalsIgnoreCase("主码为")) {//先单一 primary key，  之后再设计  forenge key  和
combination key
                //To do。。。初始
                Map<String, Object> tinShellETL= (Map<String, Object>)mapShell.get("TinShellETL");
                List<Map<String, Object>> rowList= (List<Map<String, Object>>)tinShellETL.get("obj");
                //主循环
                List<Map<String, Object>>  主要输入轮训= (List<Map<String, Object>>)object.get("obj");
                Iterator<Map<String, Object>> outputTempIterator=  主要输入轮训.iterator();
                while(outputTempIterator.hasNext()) {
                    Map<String, Object> rowOutputTempIterator= outputTempIterator.next();
                    Map<String, Object> rowValueRowOutputTempIterator
                    = (Map<String, Object>)rowOutputTempIterator.get("rowValue");
                    boolean findConjunction= false;
                    if(0!= rowList.size()) {
                        //辅循环
                        Iterator<Map<String, Object>> iterator= rowList.iterator();
                        while(iterator.hasNext()) {//非主要输入轮训
                            Map<String, Object> row= iterator.next();
                            Map<String, Object> rowValue= (Map<String, Object>)row.get("rowValue");
                            Map<String, Object> culumnValue= (Map<String, Object>)rowValue.get(sets[3]);
                            //outputTemp
                            if(rowValueRowOutputTempIterator.containsKey(sets[3])) {
                                Map<String, Object> rowValueRowOutputTempIteratorCulumnValue
                                = (Map<String, Object>)rowValueRowOutputTempIterator.get(sets[3]);
                                //合并 rowValueRowOutputTempIteratorCulumnValue  与  culumnValue
                                //合并方式，1  叠加列合并  2  新增列合并
```

```
                                        //先实现简单的 新增列合并
                                        //在执行前进行 sets[3]相等检查
if(rowValueRowOutputTempIteratorCulumnValue.get("culumnValue").equals(culumnValue.get("culumnValue"))) {//
以后命令多了优化
                                            findConjunction= true;
                                        }
                                        //其他定状补语 函数
                                        //。。。
                                        //。。。
                                        //。
                                    }
                                    rowOutputTempIterator.put("rowValue", rowValueRowOutputTempIterator);
                                }
                            }
                            if(false= = findConjunction) {//无交集的行才保留
                                outputTemp.add(rowOutputTempIterator);
                            }
                        }
                    }
                    //if(sets[2].equalsIgnoreCase("自由定义各种命令。。")) {
                    ////To do。。。
                    //    }
                    output.clear();
                    output.addAll(outputTemp);
                }
            }
            //之后这个定状补的函数我会分出去 结构化 罗瑶光 20211012
            @SuppressWarnings("unchecked")
            private static void model(String[] sets, Map<String, Object> rowValue, String 列标识
                    , Map<String, Object> rowValueRowOutputTempIterator) {
                if(sets[5].equalsIgnoreCase("新增列")) {
                    Iterator<String> iteratorCulumnValue= rowValue.keySet().iterator();
                    while(iteratorCulumnValue.hasNext()) {
                        String string= iteratorCulumnValue.next();
                        Map<String, Object> culumnCell= (Map<String, Object>) rowValue.get(string);
                        culumnCell.put("culumnName", 列标识+ string);
                        rowValueRowOutputTempIterator.put(列标识+ string, culumnCell);
                        //先这样，测试下
                    }
                }
                //叠加列
                if(sets[5].equalsIgnoreCase("叠加列")) {
                    //列遍历
                    Iterator<String> iteratorCulumnValue= rowValue.keySet().iterator();
                    while(iteratorCulumnValue.hasNext()) {
                        String string= iteratorCulumnValue.next();
                        //列操作
                        Map<String, Object> culumnCell= (Map<String, Object>) rowValue.get(string);
                        if(rowValueRowOutputTempIterator.containsKey(string)) {
```

```
                //有就叠加
                Map<String, Object> columnCellMain
                = (Map<String, Object>) rowValueRowOutputTempIterator.get(string);
                columnCellMain.put("columnValue", columnCellMain.get("columnValue").toString()
                        + columnCell.get("columnValue").toString() );
                rowValueRowOutputTempIterator.put(string, columnCellMain);
            }else {
                //没有就添加
                columnCell.put("columnName", 列标识+ string);
                rowValueRowOutputTempIterator.put(列标识+ string, columnCell);
            }
        }
    }
    //有交集列 叠加
    if(sets[5].equalsIgnoreCase("有交集叠加列")) {
        //列遍历
        Iterator<String> iteratorCulumnValue= rowValue.keySet().iterator();
        while(iteratorCulumnValue.hasNext()) {
            String string= iteratorCulumnValue.next();
            //列操作
            Map<String, Object> columnCell= (Map<String, Object>) rowValue.get(string);
            if(rowValueRowOutputTempIterator.containsKey(string)) {
                //有就叠加
                Map<String, Object> columnCellMain
                = (Map<String, Object>) rowValueRowOutputTempIterator.get(string);
                columnCellMain.put("columnValue", columnCellMain.get("columnValue").toString()
                        + columnCell.get("columnValue").toString());
                rowValueRowOutputTempIterator.put(string, columnCellMain);
            }
        }
    }
    //有交集列 新增
    if(sets[5].contains("交集新增列")) {
        //列遍历
        Iterator<String> iteratorCulumnValue= rowValue.keySet().iterator();
        while(iteratorCulumnValue.hasNext()) {
            String string= iteratorCulumnValue.next();
            //列操作
            Map<String, Object> columnCell= (Map<String, Object>) rowValue.get(string);
            if(sets[5].equalsIgnoreCase("有交集新增列")) {
                if(rowValueRowOutputTempIterator.containsKey(string)) {
                    columnCell.put("columnName", 列标识+ string);
                    rowValueRowOutputTempIterator.put(列标识+ string, columnCell);
                }
            }else if(sets[5].equalsIgnoreCase("无交集新增列")) {
                if(!rowValueRowOutputTempIterator.containsKey(string)) {
                    columnCell.put("columnName", 列标识+ string);
                    rowValueRowOutputTempIterator.put(列标识+ string, columnCell);
                }
```

```
                    }
                }
            }
            //相交部分剔除
        }
}
```

```
package OSM.shell;
import java.io.IOException;
import java.math.BigDecimal;
import java.net.URLEncoder;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import ME.APM.VSQ.HRJFrame;
import MSV.OSQ.sets.DetaDouble;
import OEU.LYG4DQS4D.LYG10DWCMSSort13D_XCDX_C_A_S;
import OEU.LYG4DQS4D.LYG9DWithDoubleTopSort4D;
import OEU.LYG4DQS4D.Quick_7D_luoyaoguang_Sort;
import OSI.AOP.PCS.PP.port_E.RestNLPPortImpl;
import PEQ.AMV.ECS.test.ANNTest;
import PEQ.AMV.ECS.test.DNNTest;
import PEQ.AMV.ECS.test.SensingTest;
import PEU.P.table.TableSorterZYNK;
@SuppressWarnings({"unused"})
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作  罗瑶光
public class P_AO_pl_XA {
    @SuppressWarnings({ "unchecked" })
    public static void P_AggregationLimitMap(String[] sets
            , List<Map<String, Object>> output) throws InstantiationException, IllegalAccessException,
IOException {
        List<Map<String, Object>> outputTemp= new ArrayList<>();
        if(sets[1].equalsIgnoreCase("sortNumber")) {
            //outputTemp 是一个 arraylist，已经具备了 排序的 模子。
            //这里通常会有数字和字符串 2 种模式，
            //于是设计 sortNumber， sortString 两个语法先
            return;
        }
        if(sets[1].equalsIgnoreCase("进行字符排序")) {
            //outputTemp 是一个 arraylist，已经具备了 排序的 模子。
            //这里通常会有数字和字符串 2 种模式，
            //于是设计 sortNumber， sortString 两个语法先
            //outputTemp
            //先把之前的文字拼音笔画排序接口拿过来，
            //然后面向该接口进行封装适应这里的功能。
            //看怎么改
```

```
        outputTemp.addAll(output);
        //1 list 存 map
        Map<String, Map<String, Object>> maps= new HashMap<>();
        Iterator<Map<String, Object>> iterators= outputTemp.iterator();
        String[] strings= new String[outputTemp.size()];
        int index= 0;
        while(iterators.hasNext()) {
            Map<String, Object> map= iterators.next();
            Map<String, Object> rowValue= (Map<String, Object>)map.get("rowValue");
            Map<String, Object> culumnValue= (Map<String, Object>)rowValue.get(sets[0]);
            maps.put(culumnValue.get("culumnValue").toString(), map);
            strings[index++]= culumnValue.get("culumnValue").toString();
        }
        //2 list 去 map 名
        //3 sort map 名
        SortStringDemo.initMap();
        int returnInt= new LYG10DWCMSSort13D_XCDX_C_A_S()
                .quick4DChineseStringArrayWithSmallInTwoChar3bihuaReturns(strings
                        , 0, strings.length- 1, 80, SortStringDemo.pinYin
                        , SortStringDemo.biHua, 7, 70);
        //4 输出
        outputTemp.clear();
        if(sets[2].equalsIgnoreCase("从小到大")) {
            for(int i= 0; i< strings.length; i++) {
                outputTemp.add(maps.get(strings[i]));
            }
        }else if(sets[2].equalsIgnoreCase("从大到小")) {
            for(int i= 0; i< strings.length; i++) {
                outputTemp.add(maps.get(strings[strings.length- i- 1]));
            }
        }
        output.clear();
        output.addAll(outputTemp);
        return;
    }
    if(sets[1].equalsIgnoreCase("进行数字排序")) {
        //outputTemp 是一个 arraylist，已经具备了 排序的 模子。
        //这里通常会有数字和字符串 2 种模式，
        //于是设计 sortNumber， sortString 两个语法先
        //outputTemp
        //先把之前的文字拼音笔画排序接口拿过来，
        //然后面向该接口进行封装适应这里的功能。
        //看怎么改
        outputTemp.addAll(output);
        //1 list 存 map
        Map<String, Map<String, Object>> maps= new HashMap<>();
        Iterator<Map<String, Object>> iterators= outputTemp.iterator();
        double[] doubles= new double[outputTemp.size()];
        int index= 0;
```

```
                while(iterators.hasNext()) {
                    Map<String, Object> map= iterators.next();
                    Map<String, Object> rowValue= (Map<String, Object>)map.get("rowValue");
                    Map<String, Object> culumnValue= (Map<String, Object>)rowValue.get(sets[0]);
                    maps.put(culumnValue.get("culumnValue").toString(), map);
                    doubles[index++]= Double.valueOf(culumnValue.get("culumnValue").toString());
                }
                //2 list 去 map 名
                //3 sort map 名
//SortStringDemo.initMap();
//int returnInt= new LYG10DWCMSSort13D_XCDX_C_A_S()
//          .quick4DChineseStringArrayWithSmallInTwoChar3bihuaReturns(strings
//                  , 0, strings.length- 1, 80, SortStringDemo.pinYin
//                  , SortStringDemo.biHua, 7, 70);

                new LYG9DWithDoubleTopSort4D().sort(doubles, 7, 70);
                //4 输出
                outputTemp.clear();
                if(sets[2].equalsIgnoreCase("从小到大")) {
                    for(int i= 0; i< doubles.length; i++) {
                        outputTemp.add(maps.get(""+ (int)doubles[i]));
                    }
                }else if(sets[2].equalsIgnoreCase("从大到小")) {
                    for(int i= 0; i< doubles.length; i++) {
                        outputTemp.add(maps.get(""+ (int)doubles[doubles.length- i- 1]));
                    }
                }
                output.clear();
                output.addAll(outputTemp);
                return;
            }

            if(sets[1].equalsIgnoreCase("行至")) {
                Iterator<Map<String, Object>> iterator= output.iterator();
                int count= 0;
                while(iterator.hasNext()) {
                    int rowid= count++;
                    Map<String, Object> row= iterator.next();
                    Map<String, Object> rowMap= new HashMap<>();
                    if(sets[1].equalsIgnoreCase("行至")) {
                        if(rowid >= new BigDecimal(sets[0]).doubleValue() && rowid
                                <= new BigDecimal(sets[2]).doubleValue()) {
                            outputTemp.add(row);
                        }
                    }
                }
                output.clear();
                output.addAll(outputTemp);
                return;
```

```
}
//稍后我会把这里 改成 contains 德塔 DNN 词汇，这样语言就自适应了。
//罗瑶光 20211003
if(sets[1].equalsIgnoreCase("颜色标记为")) {
    Iterator<Map<String, Object>> iterator= output.iterator();
    int count= 0;
    while(iterator.hasNext()) {
        int rowid= count++;
        Map<String, Object> row= iterator.next();
        Map<String, Object> rowMap= new HashMap<>();
        if(sets[1].equalsIgnoreCase("颜色标记为")) {
            Map<String, Object> map= (Map<String, Object>)row.get("rowValue");
            Map<String, Object> mapCulumn= (Map<String, Object>)map.get(sets[0]);
            String rowCellFromString= mapCulumn.get("culumnValue").toString();
            if(sets[2].equals("红色")) {
                sets[2]= "red";
            }
            if(sets[2].equals("黄色")) {
                sets[2]= "yellow";
            }
            if(sets[2].equals("蓝色")) {
                sets[2]= "blue";
            }
            if(sets[2].equals("绿色")) {
                sets[2]= "green";
            }
            rowCellFromString= "<div style= \"background:black\"><font color= \""+ sets[2] +"\">"
                    + rowCellFromString+ "</font></div>";
            //更新
            outputTemp.remove(row);
            mapCulumn.put("culumnValue", rowCellFromString);
            map.put(sets[0], mapCulumn);
            row.put("rowValue", map);
            outputTemp.add(row);
        }
    }
    output.clear();
    output.addAll(outputTemp);
    return;
}
if(sets[1].equalsIgnoreCase("进行分词")) {
    Iterator<Map<String, Object>> iterator= output.iterator();
    int count= 0;
    while(iterator.hasNext()) {
        int rowid= count++;
        Map<String, Object> row= iterator.next();
        Map<String, Object> rowMap= new HashMap<>();
        if(sets[2].equalsIgnoreCase("词性显色")) {
            Map<String, Object> map= (Map<String, Object>)row.get("rowValue");
```

```
                    Map<String, Object> mapCulumn= (Map<String, Object>)map.get(sets[0]);
                    String rowCellFromString= mapCulumn.get("culumnValue").toString();
                    List<String> list= HRJFrame.NE._A.parserMixedString(rowCellFromString);
                    Map<String, String> nlp= HRJFrame.NE._A.getPosCnToCn();
                    Iterator<String> iterators= list.iterator();
                    rowCellFromString= "";
                    rowCellFromString+= "<div style= \"background:white\">";
                    while(iterators.hasNext()) {
                        String string= iterators.next();
                        if(nlp.containsKey(string)) {
                            rowCellFromString+= "<font color= \""+
                                    (!nlp.get(string).contains("动")?!nlp.get(string).contains("名
")?!nlp.get(string).contains("形")?
                                                "black": "blue": "red": "green") +"\">"
                                                + string+ "</font>";
                        }
                    }
                    rowCellFromString+= "</div>";
                    //rowCellFromString= "<div style= \"background:white\"><font color= \""+ sets[2] +"\">"
                    //+ rowCellFromString+ "</font></div>";
                    //更新
                    outputTemp.remove(row);
                    mapCulumn.put("culumnValue", rowCellFromString);
                    map.put(sets[0], mapCulumn);
                    row.put("rowValue", map);
                    outputTemp.add(row);
                }

                if(sets[2].equalsIgnoreCase("词性标注")) {
                    Map<String, Object> map= (Map<String, Object>)row.get("rowValue");
                    Map<String, Object> mapCulumn= (Map<String, Object>)map.get(sets[0]);
                    String rowCellFromString= mapCulumn.get("culumnValue").toString();
                    List<String> list= HRJFrame.NE._A.parserMixedString(rowCellFromString);
                    Map<String, String> nlp= HRJFrame.NE._A.getPosCnToCn();
                    Iterator<String> iterators= list.iterator();
                    rowCellFromString= "";
                    rowCellFromString+= "<div style= \"background:white\">";
                    while(iterators.hasNext()) {
                        String string= iterators.next();
                        if(nlp.containsKey(string)) {
                            rowCellFromString+= string+ "("+ nlp.get(string)+ ") ";
                        }
                    }
                    rowCellFromString+= "</div>";
                    //rowCellFromString= "<div style= \"background:white\"><font color= \""+ sets[2] +"\">"
                    //+ rowCellFromString+ "</font></div>";
                    //更新
                    outputTemp.remove(row);
                    mapCulumn.put("culumnValue", rowCellFromString);
```

```
                map.put(sets[0], mapCulumn);
                row.put("rowValue", map);
                outputTemp.add(row);
            }
            //之后我会把 dataCG 函数进行重新封装，去重。
            if(sets[2].equalsIgnoreCase("DNN")) {
                Map<String, Object> map= (Map<String, Object>)row.get("rowValue");
                Map<String, Object> mapCulumn= (Map<String, Object>)map.get(sets[0]);
                String rowCellFromString= mapCulumn.get("culumnValue").toString();
                //
                //System.out.printntln(string);
                SensingTest sensingTest= HRJFrame.NE._A.getSensingTest();
                DNNTest dNNTest= new DNNTest();
                ANNTest aNNTest= new ANNTest();
                String[][] ann= aNNTest.getANNMatrix(sensingTest, rowCellFromString, HRJFrame.NE._A);
                String[][] dnn= dNNTest.getDNNMatrix(sensingTest, ann, HRJFrame.NE._A,
rowCellFromString);
                List<String> cigan= new LinkedList<>();
                Here:
                for(int i= 0; i<dnn.length; i++) {
                    double dnn_lwa= 0;
                    if(null= = dnn[i][3]) {
                        continue Here;
                    }
                    dnn_lwa= DetaDouble.parseDouble(dnn[i][3]);
                    if(dnn_lwa>0) {
                        String line= "";
                        line+= ann[i][0] + ":";
                        line+= dnn[i][3] + ":";
                        cigan.add(line);
                    }
                }
                String[][] value= new String[cigan.size()][2];
                Iterator<String> iterators= cigan.iterator();
                int valueCount= 0;
                while(iterators.hasNext()) {
                    String iteratorString= iterators.next();
                    value[valueCount][0]= iteratorString.split(":")[0];
                    value[valueCount++][1]= iteratorString.split(":")[1];
                }
                //value= new Quick_6D_luoyaoguang_Sort().sort(value);
                value= new Quick_7D_luoyaoguang_Sort().sort(value);
                String cg= "词名/DNN";
                cg+= "\r\n";
                for(int i= 0; i<value.length; i++) {
                    cg += value[i][0] + ":" + value[i][1] + "\r\n";
                }
                rowCellFromString+= "<div style= \"background:white\">";
                rowCellFromString+= cg +"</div>";
```

```
                        //更新
                        outputTemp.remove(row);
                        mapCulumn.put("culumnValue", rowCellFromString);
                        map.put(sets[0], mapCulumn);
                        row.put("rowValue", map);
                        outputTemp.add(row);
                    }
                }
                output.clear();
                output.addAll(outputTemp);
                return;
            }
//    //操作:进行合并:列名:上中下
            //
//    if(sets[1].equalsIgnoreCase("进行合并")) {
//
//    }
//    //稍后把这里 行遍历 改成 命令遍历。提高计算速度
//    //罗瑶光 20211002
//    Iterator<Map<String, Object>> iterator= output.iterator();
//    int count= 0;
//    while(iterator.hasNext()) {
//int rowid= count++;
//Map<String, Object> row= iterator.next();
//Map<String, Object> rowMap= new HashMap<>();
//if(sets[1].equalsIgnoreCase("行至")) {
//    if(rowid >= new BigDecimal(sets[0]).doubleValue() && rowid
//                <= new BigDecimal(sets[2]).doubleValue()) {
//        outputTemp.add(row);
//    }
//}
//
//if(sets[1].equalsIgnoreCase("颜色")) {
//    Map<String, Object> map= (Map<String, Object>)row.get("rowValue");
//    Map<String, Object> mapCulumn= (Map<String, Object>)map.get(sets[0]);
//    String rowCellFromString= mapCulumn.get("culumnValue").toString();
//    if(sets[2].equals("红色")) {
//        sets[2]= "red";
//    }
//    if(sets[2].equals("黄色")) {
//        sets[2]= "yellow";
//    }
//    if(sets[2].equals("蓝色")) {
//        sets[2]= "blue";
//    }
//    if(sets[2].equals("绿色")) {
//        sets[2]= "green";
//    }
//    rowCellFromString= "<div style= \"background:black\"><font color= \""+ sets[2] +"\">"
```

```
//                  + rowCellFromString+ "</font></div>";
//    //更新
//    outputTemp.remove(row);
//    mapCulumn.put("culumnValue", rowCellFromString);
//    map.put(sets[0], mapCulumn);
//    row.put("rowValue", map);
//    outputTemp.add(row);
//}
//
//if(sets[1].equalsIgnoreCase("分词")) {
//    Map<String, Object> map= (Map<String, Object>)row.get("rowValue");
//    Map<String, Object> mapCulumn= (Map<String, Object>)map.get(sets[0]);
//    String rowCellFromString= mapCulumn.get("culumnValue").toString();
//    List<String> list= HRJFrame.NE._A.parserMixedString(rowCellFromString);
//    Map<String, String> nlp= HRJFrame.NE._A.getPosCnToCn();
//    Iterator<String> iterators= list.iterator();
//    rowCellFromString= "";
//    rowCellFromString+= "<div style= \"background:white\">";
//    while(iterators.hasNext()) {
//        String string= iterators.next();
//        if(nlp.containsKey(string)) {
//            rowCellFromString+= "<font color= \""+
//                    (!nlp.get(string).contains("动")?!nlp.get(string).contains("名")?!nlp.get(string).contains("形")?
//                            "black": "blue": "red": "green") +"\">"
//                            + string+ "</font>";
//        }
//    }
//    rowCellFromString+= "</div>";
//    //rowCellFromString= "<div style= \"background:white\"><font color= \""+ sets[2] +"\">"
//    //+ rowCellFromString+ "</font></div>";
//    //更新
//    outputTemp.remove(row);
//    mapCulumn.put("culumnValue", rowCellFromString);
//    map.put(sets[0], mapCulumn);
//    row.put("rowValue", map);
//    outputTemp.add(row);
//}
//    }
        output.clear();
        output.addAll(outputTemp);
    }
//分出去
    public static void P_PletlLimitMap(String[] sets, List<Map<String, Object>> obj) {
        // TODO Auto-generated method stub

    }
}
```

```
package OSM.shell;
```

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.UnsupportedEncodingException;
import java.math.BigDecimal;
import java.net.HttpURLConnection;
import java.net.URL;
import java.net.URLEncoder;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import ESU.string.String_ESU;
import ME.APM.VSQ.HRJFrame;
import MSU.AMS.VQS.SQV.SI.OSU.SMV.http.RestCall;
import MSU.AMS.VQS.SQV.SI.OSU.SMV.http.SessionValidation;
import MSV.OSQ.sets.DetaDouble;
import OEU.LYG4DQS4D.LYG10DWCMSSort13D_XCDX_C_A_S;
import OEU.LYG4DQS4D.LYG9DWithDoubleTopSort4D;
import OEU.LYG4DQS4D.Quick_7D_luoyaoguang_Sort;
import OSI.AOP.PCS.PP.port_E.RestNLPPortImpl;
import OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell.TinMap;
import PEQ.AMV.ECS.test.ANNTest;
import PEQ.AMV.ECS.test.DNNTest;
import PEQ.AMV.ECS.test.SensingTest;
import PEU.P.dna.Token;
import PEU.P.dna.TokenCerts;
import PEU.P.table.TableSorterZYNK;
@SuppressWarnings({"unused"})
//这个文件主要用来设计关于 web 的 rest，server，http 请求
//+ "PLTCP:病症|进行 WEB 请求|接口为|localhost|端口为|8000|操作为|分词;" (正在设计）
//+ "PLTCP:病症|进行 WEB 请求|接口为|localhost|端口为|8000|操作为|DNN;" (正在设计）
//+ "PLTCP:病症|进行 WEB 请求|接口为|localhost|端口为|8000|操作为|POS;" (正在设计）
//罗瑶光  20211014
public class P_AO_PLTCP {
    @SuppressWarnings("unchecked")
    public static void P_PltcpLimitMap(String[] sets, List<Map<String, Object>> output
            , Map<String, Object> object) throws IOException {
        List<Map<String, Object>> outputTemp= new ArrayList<>();
        if(sets[1].equalsIgnoreCase("进行 WEB 请求")) {
            //主循环
            List<Map<String, Object>>  主要输入轮训= (List<Map<String, Object>>)object.get("obj");
            Iterator<Map<String, Object>> outputTempIterator=  主要输入轮训.iterator();
            while(outputTempIterator.hasNext()) {
                Map<String, Object> rowOutputTempIterator= outputTempIterator.next();
                Map<String, Object> rowValueRowOutputTempIterator
                = (Map<String, Object>)rowOutputTempIterator.get("rowValue");
```

```
//先固定好主谓宾格式，以后再来设计宾补的格式，目前先按定语来。
String server= sets[3];//稍后设计  安全检测。
String port= sets[5];
if(sets[7].contains("分词")) {
	String setOfi= rowValueRowOutputTempIterator.get(sets[0]).toString();
	String string= String_ESU.charsetSwap(setOfi, "GBK", "GBK");
	String encode= String_ESU.stringToURIencode(string, "UTF8");
	//String response= RestCall.backEndRequest(encode);
	//模拟加个测试账号: 313699483@QQ.COM，密码: fengyue1985
	String id= "313699483@QQ.COM";
	String idString= String_ESU.charsetSwap(id, "GBK", "GBK");
	String idEncoder= String_ESU.stringToURIencode(idString, "UTF8");
	String password= "Fengyue1985!";
	String lock=
"AISD>_<111111111111111>_<111111111111111111111111111111111111111111111111111111111111111111111111111111
111111111111111111111111111111111"
			+
">_<1111111111111111>_<10111011101101101110110110110111011011011101110110110"
			+
"1101101101101101110110110111011011011011011011101101101101101110110111011101";
	String[] MD5dice_DNA= lock.split(">_<");
	//DNA 元基加密
	SessionValidation sessionValidation= new SessionValidation();
	TokenCerts tokenCerts=
sessionValidation.sessionTokenCertsInitWithHumanWordsByDNA(password, true, MD5dice_DNA[0]);
	Token token= sessionValidation.sessionInitByTokenPDICertsDNA(tokenCerts);
	String passwordString= String_ESU.charsetSwap(token.getmPassword(), "GBK", "GBK");
	String passwordEncoder= String_ESU.stringToURIencode(passwordString, "UTF8");
	System.out.println("pds--1>"+tokenCerts.getPds());
	//这里的数据下面没有标识，准备写个 tag 来描述下先
	//java 从没有 url 的长度限制，如果出问题就会不报错，欺骗方式下滑。
	//所以准备写个 tag。
	//localhost 我会做个表来描述。
	//罗瑶光 20210731
	URL url= new URL("http://"+ server+ ":"+ port+ "/dataWS?message= "+ encode+
			"&id= "+ idEncoder+
			"&password= "+ password+
			"&de= "+ MD5dice_DNA[1] +
			"&ds= "+ MD5dice_DNA[2] +
			"&ie= "+ MD5dice_DNA[3] +
			"&is= "+ MD5dice_DNA[4] +
			"&lock= "+ MD5dice_DNA[0]);
	HttpURLConnection conn= (HttpURLConnection) url.openConnection();
	//这里是 url 的 httpconnection，只能服务器网卡链接情况下使用,如果要本机断网调试,
请查阅网卡相关函数.
	//与程序功能无关，以后讨论.
	//HttpConnection conn= (HttpURLConnection) url.openConnection();
	conn.setRequestMethod("POST");
	conn.setRequestProperty("Accept", "application/json");
```

```
                    if (conn.getResponseCode() != 200) {
                        throw new RuntimeException("Failed : HTTP error code : " + conn.getResponseCode());
                    }
                    BufferedReader br= new BufferedReader(new InputStreamReader((conn.getInputStream()),
"GBK"));
                    String out= "";
                    String out1;
                    while ((out1= br.readLine()) != null) {
                        out += out1;
                    }
                    conn.disconnect();
                    //
                    String[] strings= out.split("\"");
                    out= strings.length> 3? strings[3]: "";
                    out= String_ESU.uRIencodeToURIdecode(out, "UTF8");
                    //输出存储替换
                    rowValueRowOutputTempIterator.put(sets[0], out);
                    rowOutputTempIterator.put("rowValue", rowValueRowOutputTempIterator);
                    outputTemp.add(rowOutputTempIterator);
                }
                if(sets[7].contains("DNN")) {
                    String setOfi= rowValueRowOutputTempIterator.get(sets[0]).toString();
                    String string= String_ESU.charsetSwap(setOfi, "GBK", "GBK");
                    String encode= String_ESU.stringToURIencode(string, "UTF8");
                    //String response= RestCall.backEndRequest(encode);
                    //模拟加个测试账号: 313699483@QQ.COM, 密码: fengyue1985
                    String id= "313699483@QQ.COM";
                    String idString= String_ESU.charsetSwap(id, "GBK", "GBK");
                    String idEncoder= String_ESU.stringToURIencode(idString, "UTF8");
                    String password= "Fengyue1985!";
                    String lock=
"AISD>_<11111111111111>_<1111111111111111111111111111111111111111111111111111111111111111111111111111111
1111111111111111111111111111111111"
                                +
">_<111111111111111>_<10111011101101101110110110110111011011011101110110110"
                                +
"1101101101101101110110110111011011011011011101101101101101110110111011101";
                    String[] MD5dice_DNA= lock.split(">_<");
                    //DNA 元基加密
                    SessionValidation sessionValidation= new SessionValidation();
                    TokenCerts tokenCerts=
sessionValidation.sessionTokenCertsInitWithHumanWordsByDNA(password, true, MD5dice_DNA[0]);
                    Token token= sessionValidation.sessionInitByTokenPDICertsDNA(tokenCerts);
                    String passwordString= String_ESU.charsetSwap(token.getmPassword(), "GBK", "GBK");
                    String passwordEncoder= String_ESU.stringToURIencode(passwordString, "UTF8");
                    System.out.println("pds--1>"+tokenCerts.getPds());
                    //这里的数据下面没有标识，准备写个 tag 来描述下先
                    //java 从没有 url 的长度限制，如果出问题就会不报错，欺骗方式下滑。
                    //所以准备写个 tag。
```

```
                    //localhost 我会做个表来描述。
                    //罗瑶光 20210731
                    URL url= new URL("http://"+ server+ ":"+ port+ "/dataCG?message= "+ encode+
                            "&id= "+ idEncoder+
                            "&password= "+ password+
                            "&de= "+ MD5dice_DNA[1] +
                            "&ds= "+ MD5dice_DNA[2] +
                            "&ie= "+ MD5dice_DNA[3] +
                            "&is= "+ MD5dice_DNA[4] +
                            "&lock= "+ MD5dice_DNA[0]);
                    HttpURLConnection conn= (HttpURLConnection) url.openConnection();
                    //这里是 url 的 httpconnection, 只能服务器网卡链接情况下使用,如果要本机断网调试,请查阅网卡相关函数.
                    //与程序功能无关, 以后讨论.
                    //HttpConnection conn= (HttpURLConnection) url.openConnection();
                    conn.setRequestMethod("POST");
                    conn.setRequestProperty("Accept", "application/json");
                    if (conn.getResponseCode() != 200) {
                        throw new RuntimeException("Failed : HTTP error code : " + conn.getResponseCode());
                    }
                    BufferedReader br= new BufferedReader(new InputStreamReader((conn.getInputStream()), "GBK"));
                    String out= "";
                    String out1;
                    while ((out1= br.readLine()) != null) {
                        out += out1;
                    }
                    conn.disconnect();
                    //
                    String[] strings= out.split("\"");
                    out= strings.length> 3? strings[3]: "";
                    out= String_ESU.uRIencodeToURIdecode(out, "UTF8");
                    //输出存储替换
                    rowValueRowOutputTempIterator.put(sets[0], out);
                    rowOutputTempIterator.put("rowValue", rowValueRowOutputTempIterator);
                    outputTemp.add(rowOutputTempIterator);
                }
                if(sets[7].contains("POS")) {
                    String setOfi= rowValueRowOutputTempIterator.get(sets[0]).toString();
                    String string= String_ESU.charsetSwap(setOfi, "GBK", "GBK");
                    String encode= String_ESU.stringToURIencode(string, "UTF8");
                    //String response= RestCall.backEndRequest(encode);
                    //模拟加个测试账号: 313699483@QQ.COM, 密码: fengyue1985
                    String id= "313699483@QQ.COM";
                    String idString= String_ESU.charsetSwap(id, "GBK", "GBK");
                    String idEncoder= String_ESU.stringToURIencode(idString, "UTF8");
                    String password= "Fengyue1985!";
                    String lock= "AISD>_<111111111111111>_<1111111111111111111111111111111111111111111111111111111111111111111111111111111111111111
```

```
1111111111111111111111111111111"
                                    +
">_<1111111111111111>_<10111011101101101110110110110111011011011101110110110"
                                    +
"11011011011011011101101101110110110110110110110111011011011011011101101110111011101";
                            String[] MD5dice_DNA= lock.split(">_<");
                            //DNA 元基加密
                            SessionValidation sessionValidation= new SessionValidation();
                            TokenCerts tokenCerts=
sessionValidation.sessionTokenCertsInitWithHumanWordsByDNA(password, true, MD5dice_DNA[0]);
                            Token token= sessionValidation.sessionInitByTokenPDICertsDNA(tokenCerts);
                            String passwordString= String_ESU.charsetSwap(token.getmPassword(), "GBK", "GBK");
                            String passwordEncoder= String_ESU.stringToURIencode(passwordString, "UTF8");
                            System.out.println("pds--1>"+tokenCerts.getPds());
                            //这里的数据下面没有标识，准备写个 tag 来描述下先
                            //java  从没有 url 的长度限制，如果出问题就会不报错，欺骗方式下滑。
                            //所以准备写个 tag。
                            //localhost  我会做个表来描述。
                            //罗瑶光  20210731
                            URL url= new URL("http://"+ server+ ":"+ port+ "/dataCX?message= "+ encode+
                                    "&id= "+ idEncoder+
                                    "&password= "+ password+
                                    "&de= "+ MD5dice_DNA[1] +
                                    "&ds= "+ MD5dice_DNA[2] +
                                    "&ie= "+ MD5dice_DNA[3] +
                                    "&is= "+ MD5dice_DNA[4] +
                                    "&lock= "+ MD5dice_DNA[0]);
                            HttpURLConnection conn= (HttpURLConnection) url.openConnection();
//这里是 url  的 httpconnection,  只能服务器网卡链接情况下使用,如果要本机断网调试,  请查阅网卡相关函数.
                            //与程序功能无关,  以后讨论.
                            //HttpConnection conn= (HttpURLConnection) url.openConnection();
                            conn.setRequestMethod("POST");
                            conn.setRequestProperty("Accept", "application/json");
                            if (conn.getResponseCode() != 200) {
                                throw new RuntimeException("Failed : HTTP error code : " + conn.getResponseCode());
                            }
                        BufferedReader br= new BufferedReader(new InputStreamReader((conn.getInputStream()), "GBK"));
                            String out= "";
                            String out1;
                            while ((out1= br.readLine()) != null) {
                                out += out1;
                            }
                            conn.disconnect();
                            //
                            String[] strings= out.split("\"");
                            out= strings.length> 3? strings[3]: "";
                            out= String_ESU.uRIencodeToURIdecode(out, "UTF8");
                            //输出存储替换
                            rowValueRowOutputTempIterator.put(sets[0], out);
```

```
                        rowOutputTempIterator.put("rowValue", rowValueRowOutputTempIterator);
                        outputTemp.add(rowOutputTempIterator);
                    }
                }
            }
            output.clear();
            output.addAll(outputTemp);
        }
}
```

```
package OSM.shell;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.IOException;
import java.math.BigDecimal;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import AVQ.ASQ.OVQ.OSQ.VSQ.obj.WordFrequency;
import ESU.list.List_ESU;
import ESU.sort.Quick9DLYGWithString_ESU;
import ME.APM.VSQ.HRJFrame;
import MS.OP.SM.AOP.MEC.SIQ.cache.DetaDBBufferCache_M;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Cell;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Row;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Table;
import OSA.shell.XA_ShellTable;
import OSA.shell.XA_ShellTables;
@SuppressWarnings({"unused", "unchecked"})
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作 罗瑶光
public class P_CO_pl_XA__XCDX_Cache extends P_CO_pl_XA_XCDX {
    public static void P_Cache(String[] sets, List<Map<String, Object>> output
            , String tableName, Map<String, Object> object, String condition) {
        //Table table= DetaDBBufferCache_M.db.getBase(baseName).getTable(tableName);
        //我没有将 search shell 用 DetaDBBufferCache_M 内存机制来存储是因为 table 操作是增删改查严谨操作。
        //而 search shell 操作是筛选查找 极速操作，严谨操作与极速操作 的应用环境有天壤之别。
        //XA_ShellTable table= XA_ShellTables.XA_ShellTables.get(tableName);
        //稍后把下面的 Table 替换成 XA_ShellTable 即可。
        //Table table= DetaDBBufferCache_M.db.getBase(baseName).getTable(tableName);
        //算了统一接口， 以后统一优化改。
        List<Map<String, Object>> outputTemp= new ArrayList<>();
        //创建一个 table
        XA_ShellTable table= null;
        outputTemp.addAll(output);
```

```
if(outputTemp.isEmpty()||condition.equals("或")||condition.equals("和")) { //因为改成了 or map，所以只有原表重新 load
    table= XA_ShellTables.XA_ShellTables.get(tableName);
}else if(!outputTemp.isEmpty()&& condition.equals("和")) {//这里不会再走了。成了伪函数
    Row[] huaRuiJiJtableRows= new Row[outputTemp.size()];
    for(int i= 0; i< outputTemp.size(); i++) {
        huaRuiJiJtableRows[i]= P_CO_pl_XA_XCDX_Map.rowMapToRow(outputTemp.get(i));
    }
    table= new XA_ShellTable();
    table.setHuaRuiJiJtableRows(huaRuiJiJtableRows);
}
//修改下把 output 的逻辑重复利用 满足 conditon 的 and 和 or
//只拿前 100 行 以后改成分页
//稍后把这个函数片段移除这个文件，变成一个函数。
if(sets[1].equalsIgnoreCase("精度搜索")) {
    //table to object
    //稍后我的养疗经界面搜索 release 函数的 片段 这里也可以优化如下。
    String key= sets[2];
    if(null= = key|| key.equals("")) {
        return;
    }
    String[] score= new String[table.huaRuiJiJtableRows.length];
    int[] score_code= new int[table.huaRuiJiJtableRows.length];
    int []reg= new int[table.huaRuiJiJtableRows.length];
    int count= 0;
    Map<String, String> pos= HRJFrame.NE._A.getPosCnToCn();
    Map<String, WordFrequency> mapSearchWithoutSort= null;
    mapSearchWithoutSort= HRJFrame.NE._A.parserMixStringByReturnFrequencyMap(key);
    //Iterator<String> iteratorForCopy= copy.iterator();
    int copyCount= 0;
    List<String> list= HRJFrame.NE._A.parserMixedString(key);
    String[] string= List_ESU.listToArray(list);
    String[] stringReg= new String[key.length()/3];
    for(int i= 0; i< stringReg.length; i++) {
        stringReg[i]= key.substring(i*3, (i*3+ 3)<key.length()?(i*3+ 3):key.length()-1);
    }
    Map<String, Row> map= new HashMap<>();
    for(int i= 0; i< table.huaRuiJiJtableRows.length; i++) {
        //while(iteratorForCopy.hasNext()) {
        String temps= table.huaRuiJiJtableRows[i].getCell(sets[0]).getCellValue().toString();
        //    if(null= = temps) {
        //        temps= "";
        //    }
        score[copyCount]= "i"+ i;//因为 不再有 map key，所以就通用为 map 内容。
        map.put(score[copyCount], table.huaRuiJiJtableRows[i]);
        //String iteratorForCopyString= iteratorForCopy.next();
        //score[copyCount]= iteratorForCopyString;
        //String temps= dic_map.get(iteratorForCopyString).toString();
        Iterator<String> iteratorWordFrequency= mapSearchWithoutSort.keySet().iterator();
```

```
                Here:
                    while(iteratorWordFrequency.hasNext()) {
                        String mapSearchaAtII= iteratorWordFrequency.next();
                        WordFrequency wordFrequencySearch= mapSearchWithoutSort.get(mapSearchaAtII);
                        if(temps.contains(mapSearchaAtII)) {
                            if(reg[copyCount]= = 0){
                                count += 1;
                            }
                            //score[copyCount]= temps;//因为 不再有 map key，
                            //所以就通用为 map 内容。，还是需要 map
                            //    if(score[copyCount].contains(key.replace(" ", ""))) {
                            //    reg[copyCount]+= 500;
                            //    }
                            //   if(key.contains(score[copyCount].replace(" ", ""))) {
                            //    reg[copyCount]+= 500;
                            //}
                            if(temps.contains(key.replace(" ", ""))) {
                                reg[copyCount]+= 500;
                            }
                            if(key.contains(temps.replace(" ", ""))) {
                                reg[copyCount]+= 500;
                            }
                            if(!pos.containsKey(mapSearchaAtII)) {
                                reg[copyCount] += 1;
                                score_code[copyCount] += 1 << mapSearchaAtII.length() <<
wordFrequencySearch.getFrequency() ;
                                continue Here;
                            }
                            if(pos.get(mapSearchaAtII).contains("名")||pos.get(mapSearchaAtII).contains("动")
                                    ||pos.get(mapSearchaAtII).contains("形
")||pos.get(mapSearchaAtII).contains("谓")) {
                                reg[copyCount] += 2;
                            }
                            reg[copyCount] += 1;
                            score_code[copyCount] += (temps.contains(mapSearchaAtII) ? 2 : 1)
                                    * (!pos.get(mapSearchaAtII).contains("名")
                                            ? pos.get(mapSearchaAtII).contains("动")? 45 : 1 : 50)
                                    << mapSearchaAtII.length() * wordFrequencySearch.getFrequency();
                            continue Here;
                        }
                        if(mapSearchaAtII.length()>1) {
                            for(int j= 0;j<mapSearchaAtII.length();j++) {
                                if(temps.contains(String.valueOf(mapSearchaAtII.charAt(j)))) {
                                    if(reg[copyCount]= = 0){
                                        count += 1;
                                    }
                                    //                                    score[copyCount]= temps;
                                    score_code[copyCount]+= 1;
                                    if(pos.containsKey(String.valueOf(mapSearchaAtII.charAt(j)))&&(
```

```
                                    pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("名")
                                    ||pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("动")
                                    ||pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("形")
                                    ||pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("谓")
                                        )) {
                                    reg[copyCount] += 2;
                                }
                                reg[copyCount] += 1;
                                continue Here;
                            }
                        }
                    }
                }
            score_code[copyCount]= score_code[copyCount] * reg[copyCount];
            //词距
            int code= 100;
            int tempb= 0;
            int tempa= score_code[copyCount];
            if(key.length()> 4) {
                //全词
                for(int j= 0; j< string.length; j++) {
                    if(temps.contains(string[j])) {
                        tempb+= code;
                    }
                }
                //断句
                for(int j= 0; j< stringReg.length; j++) {
                    if(temps.contains(stringReg[j])) {
                        tempb+= code;
                    }
                }
                score_code[copyCount]= (int) (tempa/Math.pow(HRJFrame.NE.lookrot+ 1, 4)
                        + tempb*Math.pow(Integer.valueOf(sets[3]), 2));
            }
            if(key.replace(" ", "").length()> 1&& key.replace(" ", "").length()< 5) {
                if(temps.contains(key.replace(" ", ""))) {
                    tempb+= code<< 7;
                }
                score_code[copyCount]= (int) (tempa/Math.pow(Integer.valueOf(sets[3])+ 1, 4)
                        + tempb*Math.pow(Integer.valueOf(sets[3]), 2));
            }
            copyCount++;
        }
        LABEL2:
            new Quick9DLYGWithString_ESU().sort(score_code, score);
        int max= score_code[0];
        Object[][] tableData= new Object[count][18];
        int new_count= 0;
        //newTableModel.getDataVector().clear();
```

```
        //if(null== key|| key.equals("")) {
        //    return;
        //}
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
        if(null== recordRows) {
            recordRows= new HashMap<>();
        }
        recordRows.clear();
        //recordRows 没有 值
        //recordRows 有 值
        Here:
            for(int i= score.length- 1; i> 0; i--) {
                if(score_code[i]< 1){
                    continue Here;
                }
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(map.get(score[i])));
                recordRows.put(Integer.valueOf(score[i].replace("i", "")), true);
            }
        object.put("recordRows", recordRows);
        return;
    }
    int max= 50;
    //获取 table 的 row
    Here:
        for(int i= 0; i< table.huaRuiJiJtableRows.length; i++ ) {
            //if(i> max) {
            //    continue Here;
            //}
            //Object[] row= table.huaRuiJiJtable[count];
            //还是要变成 map，不然 命令的 key 值查询 只能 forloop， 效率减低
            Row row= table.huaRuiJiJtableRows[i];
            Cell cell= new Cell();
            cell.I_CellValue(i); //加 id
            //出现一个问题，我的 table db 是非线性 map 结构， 自带表头 key， 而 data 是矩阵，
            row.putCell("Index", cell);
            if(sets[1].equalsIgnoreCase("<")|| sets[1].equalsIgnoreCase("-lt")) {
                double rowCellFromBigDecimal= new BigDecimal(row.getCell(sets[0])
                        .getCellValue().toString()).doubleValue();
                if(rowCellFromBigDecimal< new BigDecimal(sets[2]).doubleValue()
                        && row.containsCell("is_delete_0")) {
                    if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                        output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                        recordRows.put(i, true);
                        object.put("recordRows", recordRows);
                    }
                }
            }
            if(sets[1].equalsIgnoreCase("<= ")||sets[1].equalsIgnoreCase("= <")
```

```
            ||sets[1].equalsIgnoreCase("-lte")) {
        String set= sets[0];
        Cell setCell= row.getCell(set);
        String cellString= setCell.getCellValue().toString();
        cellString= cellString.isEmpty()? "0": cellString;
        double rowCellFromBigDecimal= new BigDecimal(cellString).doubleValue();
        if(rowCellFromBigDecimal<=    new BigDecimal(sets[2]).doubleValue()
                && row.containsCell("is_delete_0")) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
                object.put("recordRows", recordRows);
            }
        }
    }
    if(sets[1].equalsIgnoreCase("包含")) {
        String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
        if(rowCellFromString.contains(sets[2])) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
                object.put("recordRows", recordRows);
            }
        }
    }
    //字符串长度小于
    if(sets[1].equalsIgnoreCase("字符串长度大于")) {
        String rowCellFromString= row.getCell(sets[0]).getCellValue().toString().trim();
        if(rowCellFromString.length()> new BigDecimal(sets[2]).doubleValue()) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
                object.put("recordRows", recordRows);
            }
        }
    }
    //字符串长度小于
    if(sets[1].equalsIgnoreCase("字符串长度小于")) {
        String rowCellFromString= row.getCell(sets[0]).getCellValue().toString().trim();
        if(rowCellFromString.length()< new BigDecimal(sets[2]).doubleValue()) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
                object.put("recordRows", recordRows);
            }
```

```
        }
    }
    if(sets[1].equalsIgnoreCase("过滤")||sets[1].equalsIgnoreCase("不包含")) {
        String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
        if(!rowCellFromString.contains(sets[2])) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
                object.put("recordRows", recordRows);
            }
        }
    }
    //PLSEARCH 准备整体去掉 plsql db 的  is_delete_0  关键字
    //罗瑶光  20211015
    if(sets[1].equalsIgnoreCase("= = ")||sets[1].equalsIgnoreCase("= ")
            ||sets[1].equalsIgnoreCase("= = = ")) {
        double rowCellFromBigDecimal= new BigDecimal(row.getCell(sets[0])
                .getCellValue().toString()).doubleValue();
        if(rowCellFromBigDecimal= =    new BigDecimal(sets[2]).doubleValue()) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
                object.put("recordRows", recordRows);
            }
        }
    }
    if(sets[1].equalsIgnoreCase(">= ")||sets[1].equalsIgnoreCase("= >")
            ||sets[1].equalsIgnoreCase("-gte")) {
        double rowCellFromBigDecimal= new BigDecimal(row.getCell(sets[0])
                .getCellValue().toString()).doubleValue();
        if(rowCellFromBigDecimal >= new BigDecimal(sets[2]).doubleValue()) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
                object.put("recordRows", recordRows);
            }
        }
    }
    if(sets[1].equalsIgnoreCase(">")||sets[1].equalsIgnoreCase("-gt")) {
        double rowCellFromBigDecimal= new BigDecimal(row.getCell(sets[0])
                .getCellValue().toString()).doubleValue();
        if(rowCellFromBigDecimal > new BigDecimal(sets[2]).doubleValue() ) {
            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
        Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                recordRows.put(i, true);
```

```
                    object.put("recordRows", recordRows);
                }
            }
        }
        if(sets[1].equalsIgnoreCase("!= ")||sets[1].equalsIgnoreCase("= !")) {
            double rowCellFromBigDecimal= new BigDecimal(row.getCell(sets[0])
                    .getCellValue().toString()).doubleValue();
            if(rowCellFromBigDecimal != new BigDecimal(sets[2]).doubleValue()) {
                if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                    output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
            Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                    recordRows.put(i, true);
                    object.put("recordRows", recordRows);
                }
            }
        }
        if(sets[1].equalsIgnoreCase("equal")) {
            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
            if(rowCellFromString.equalsIgnoreCase(sets[2])) {
                if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                    output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
            Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                    recordRows.put(i, true);
                    object.put("recordRows", recordRows);
                }
            }
        }
        if(sets[1].equalsIgnoreCase("!equal")) {
            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
            if(!rowCellFromString.equalsIgnoreCase(sets[2])) {
                if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                    output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
            Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                    recordRows.put(i, true);
                    object.put("recordRows", recordRows);
                }
            }
        }
        if(sets[1].equalsIgnoreCase("in")) {
            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
            String set= "," + sets[2] + ",";
            if(set.contains("," + rowCellFromString + ",")){
                if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                    output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
            Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                    recordRows.put(i, true);
                    object.put("recordRows", recordRows);
                }
            }
```

```
                    }
                    if(sets[1].equalsIgnoreCase("!in")) {
                        String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                        String set= "," + sets[2] + ",";
                        if(!set.contains("," + rowCellFromString + ",")){
                            if(!((Map<Integer, Boolean>)(object.get("recordRows"))).containsKey(i)) {
                                output.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            Map<Integer, Boolean> recordRows= (Map<Integer, Boolean>) object.get("recordRows");
                                recordRows.put(i, true);
                                object.put("recordRows", recordRows);
                            }
                        }
                    }
                }
    }
}
```

```
package OSM.shell;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.IOException;
import java.util.List;
import java.util.Map;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Cell;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Row;
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作  罗瑶光
//先替换所有涉及 DMA 的函数片段
public class P_CO_pl_XA_XCDX_Kernel extends P_CO_pl_XA_XCDX {
    //比较是否有数据取出列表到输出  检验中  罗瑶光  20210405
    //这个走硬盘查询函数来标识下, 在我设计了数据缓存查询启动函数  后就没用过了, 时间点大概在 2019
年 1 月后, 我先调通下, 之后朔源.
    //准备验算下 20210406  罗瑶光
    public static void P_kernel(String temp, File readDBTableRowIndexCulumnFile, File readDBTableRowIndexFile
            , BufferedReader reader, String DBTableRowIndexPath, List<Map<String, Object>> output, Row
bufferRow
            , Map<String, Object> rowMap) throws IOException {
        String[] culumnList= readDBTableRowIndexFile.list(); //生成一个列表头名组
        NextFile:
            for(String culumn: culumnList) { //遍历头名
                if(culumn.contains("is_delete")) {//已删除文件逃逸
                    continue NextFile;
                }
                String DBTableCulumnIndexPath= readDBTableRowIndexFile + "/" + culumn;//开始取值
                File readDBTableCulumnIndexPathFile= new File(DBTableCulumnIndexPath);
                Cell cell= new Cell();
                if (readDBTableCulumnIndexPathFile.isDirectory()) {
                    //似乎被动了手脚, 20210405  罗瑶光重新检查
            reader= new BufferedReader(new FileReader(readDBTableCulumnIndexPathFile + "/" + "value.lyg"));
```

```
                    temp= "";
                    String tempString;
                    while ((tempString= reader.readLine()) != null) {
                        temp += tempString;
                    }
                    reader.close();
                    rowMap.put(culumn, temp); //储值
                    cell.I_CellValue(temp); //数据库内存储值
                    bufferRow.putCell(culumn, cell);
                }else {
                    rowMap.put(culumn, null);
                    cell.I_CellValue(null);
                    bufferRow.putCell(culumn, cell);
                }
            }
        output.add(rowMap);
    }
    //P_kernel 等比复制过来的 search shell 组件， 我要替换的是数据库储值， jtable 表做 output
    //把 jtable 数据表的数据 变成数据库的 db 映射， 传入参数是 dma 的每一行文件的集合，
    //DefaultTableModel 的 Object[][] huaRuiJiJtable 对应 DBTablePath
    //readDBTableRowIndexFile 对应 row id
    //huaRuiJiJtableCulumns 对应 culumn
    //jtable 太上层，用它的 spec 速度会很慢。所以用 object[][] 先
    //罗瑶光 20210924
    //出现一个问题，我的 table db 是非线性 map 结构， 自带表头 key， 而 data 是矩阵，下面逻辑要全部改
掉
    public static void P_kernel_search(String temp, File readDBTableRowIndexFile, int rowId, Object[]
huaRuiJiJtableCulumns
            , Object[][] huaRuiJiJtable,List<Map<String, Object>> output, Row bufferRow, Map<String, Object>
rowMap) throws IOException {
        Object[] rowList= huaRuiJiJtable[rowId];
        for(int i= 0; i< huaRuiJiJtableCulumns.length; i++) {
            Cell cell= new Cell();
            rowMap.put((String)huaRuiJiJtableCulumns[i], rowList[i]);
            cell.I_CellValue(rowList[i]);
            bufferRow.putCell((String)huaRuiJiJtableCulumns[i], cell);
        }
        output.add(rowMap);
    }
}
```

```
package OSM.shell;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.IOException;
import java.math.BigDecimal;
import java.util.ArrayList;
import java.util.HashMap;
```

```
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import AVQ.ASQ.OVQ.OSQ.VSQ.obj.WordFrequency;
import ESU.list.List_ESU;
import ESU.sort.Quick9DLYGWithString_ESU;
import ME.APM.VSQ.HRJFrame;
import MS.OP.SM.AOP.MEC.SIQ.cache.DetaDBBufferCache_M;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Cell;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Row;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Table;
import OSA.shell.XA_ShellTable;
import OSA.shell.XA_ShellTables;
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作 罗瑶光
@SuppressWarnings({ "unused"})
public class P_CO_pl_XA_XCDX_Map extends P_CO_pl_XA_XCDX {
    //以后优化成统一对象输出，不需要再转换。2019-1-15 tin
    public static Map<String, Object> rowToRowMap(Row row) {
        Map<String, Object> culumnMaps= new HashMap<>();
        Map<String, Object> rowMap= new HashMap<>();
        Iterator<String> iterator= row.getCells().keySet().iterator();
        while(iterator.hasNext()) {
            String cellName= iterator.next();
            if(!cellName.contains("is_delete")) {
                Cell cell= row.getCell(cellName);
                Map<String, Object> culumnMap= new HashMap<>();
                culumnMap.put("culumnName", cellName);
                culumnMap.put("culumnValue", cell.getCellValue().toString());
                culumnMaps.put(cellName, culumnMap);
            }
        }
        rowMap.put("rowValue", culumnMaps);
        return rowMap;
    }
    //将 rowToRowMap 进行逆向 RowMapToRow 一来验证，2 来找最小计算模型，方便下一步表格编译计算。
    //罗瑶光 202109302339
    @SuppressWarnings("unchecked")
    public static Row rowMapToRow(Map<String, Object> map) {
        Row row= new Row();
        ConcurrentHashMap<String, Cell> cells= new ConcurrentHashMap<>();
        row.I_Cells(cells);
        Iterator<String> iterator= ((Map<String, Object>)map.get("rowValue")).keySet().iterator();
        while(iterator.hasNext()) {
            String cellName= iterator.next();
            if(!cellName.contains("is_delete")) {
                Cell cell= new Cell();
                Map<String, Object> culumnMap
                = (Map<String, Object>)((Map<String, Object>)map.get("rowValue")).get(cellName);
```

```
                cell.I_CellValue(culumnMap.get("culumnValue"));
                row.putCell(cellName, cell);
            }
        }
        return row;
    }
    //猫腻哥 把我 pmap 的 output 都改了， 今天一查问题全出来了。20210927
    //懒得管，把 P_Map 改成 shellP_Map
    public static void P_Map(String[] sets, List<Map<String, Object>> output, String tableName
            , Map<String, Object> object) {
        //算了统一接口， 以后统一优化改。
        List<Map<String, Object>> outputTemp= new ArrayList<>();
        //创建一个 table
        XA_ShellTable table;
        //outputTemp.addAll(output);
        if((output.isEmpty()||null= = output)&& object.get("firstTime").equals("true")) {
            table= XA_ShellTables.XA_ShellTables.get(tableName);
            object.put("firstTime", "others");
        }else {
            Row[] huaRuiJiJtableRows= new Row[output.size()];
            for(int i= 0; i< output.size(); i++) {
                huaRuiJiJtableRows[i]= P_CO_pl_XA_XCDX_Map.rowMapToRow(output.get(i));
            }
            table= new XA_ShellTable();
            table.setHuaRuiJiJtableRows(huaRuiJiJtableRows);
        }
        //修改下把 output 的逻辑重复利用 满足 conditon 的 and 和 or
        //只拿前 50 行 以后改成分页
        //稍后把这个函数片段移除这个文件，变成一个函数。
        if(sets[1].equalsIgnoreCase("精度搜索")) {
            //table to object
            //稍后我的养疗经界面搜索 release 函数的 片段 这里也可以优化如下。
            String key= sets[2];
            if(null= = key|| key.equals("")) {
                return;
            }
            String[] score= new String[table.huaRuiJiJtableRows.length];
            int[] score_code= new int[table.huaRuiJiJtableRows.length];
            int []reg= new int[table.huaRuiJiJtableRows.length];
            int count= 0;
            Map<String, String> pos= HRJFrame.NE._A.getPosCnToCn();
            Map<String, WordFrequency> mapSearchWithoutSort= null;
            mapSearchWithoutSort= HRJFrame.NE._A.parserMixStringByReturnFrequencyMap(key);
            //Iterator<String> iteratorForCopy= copy.iterator();
            int copyCount= 0;
            List<String> list= HRJFrame.NE._A.parserMixedString(key);
            String[] string= List_ESU.listToArray(list);
            String[] stringReg= new String[key.length()/3];
            for(int i= 0; i< stringReg.length; i++) {
```

```
                stringReg[i]= key.substring(i*3, (i*3+ 3)<key.length()?(i*3+ 3):key.length()-1);
            }
            Map<String, Row> map= new HashMap<>();
            for(int i= 0; i< table.huaRuiJiJtableRows.length; i++) {
                //while(iteratorForCopy.hasNext()) {
                String temps= table.huaRuiJiJtableRows[i].getCell(sets[0]).getCellValue().toString();
                //    if(null= = temps) {
                //        temps= "";
                //    }
                score[copyCount]= "i"+ i;//因为 不再有 map key，所以就通用为 map 内容。
                map.put(score[copyCount], table.huaRuiJiJtableRows[i]);
                //String iteratorForCopyString= iteratorForCopy.next();
                //score[copyCount]= iteratorForCopyString;
                //String temps= dic_map.get(iteratorForCopyString).toString();
                Iterator<String> iteratorWordFrequency= mapSearchWithoutSort.keySet().iterator();
                Here:
                    while(iteratorWordFrequency.hasNext()) {
                        String mapSearchaAtII= iteratorWordFrequency.next();
                        WordFrequency wordFrequencySearch= mapSearchWithoutSort.get(mapSearchaAtII);
                        if(temps.contains(mapSearchaAtII)) {
                            if(reg[copyCount]= = 0){
                                count += 1;
                            }
                            //                        score[copyCount]= temps;//因为 不再有 map key，所以就通用为 map 内容。，还是需要 map
                            //                        if(score[copyCount].contains(key.replace(" ", ""))) {
                            //                            reg[copyCount]+= 500;
                            //                        }
                            //                        if(key.contains(score[copyCount].replace(" ", ""))) {
                            //                            reg[copyCount]+= 500;
                            //                        }
                            if(temps.contains(key.replace(" ", ""))) {
                                reg[copyCount]+= 500;
                            }
                            if(key.contains(temps.replace(" ", ""))) {
                                reg[copyCount]+= 500;
                            }
                            if(!pos.containsKey(mapSearchaAtII)) {
                                reg[copyCount] += 1;
                                score_code[copyCount] += 1 << mapSearchaAtII.length() << wordFrequencySearch.getFrequency() ;
                                continue Here;
                            }
                            if(pos.get(mapSearchaAtII).contains("名")||pos.get(mapSearchaAtII).contains("动")
                                    ||pos.get(mapSearchaAtII).contains("形")||pos.get(mapSearchaAtII).contains("谓")) {
                                reg[copyCount] += 2;
                            }
                            reg[copyCount] += 1;
```

```
                                score_code[copyCount] += (temps.contains(mapSearchaAtII) ? 2 : 1)
                                        * (!pos.get(mapSearchaAtII).contains("名") ?
pos.get(mapSearchaAtII).contains("动")? 45 : 1 : 50)
                                        << mapSearchaAtII.length() * wordFrequencySearch.getFrequency();
                                continue Here;
                            }
                            if(mapSearchaAtII.length()>1) {
                                for(int j= 0;j<mapSearchaAtII.length();j++) {
                                    if(temps.contains(String.valueOf(mapSearchaAtII.charAt(j)))) {
                                        if(reg[copyCount]= = 0){
                                            count += 1;
                                        }
                                        //                                    score[copyCount]= temps;
                                        score_code[copyCount]+= 1;
                                        if(pos.containsKey(String.valueOf(mapSearchaAtII.charAt(j)))&&(
                                                pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("名
")
                                                ||pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("动
")
                                                ||pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("形
")
                                                ||pos.get(String.valueOf(mapSearchaAtII.charAt(j))).contains("谓
")
                                                )) {
                                            reg[copyCount] += 2;
                                        }
                                        reg[copyCount] += 1;
                                        continue Here;
                                    }
                                }
                            }
                        }
                    score_code[copyCount]= score_code[copyCount] * reg[copyCount];
                    //词距
                    int code= 100;
                    int tempb= 0;
                    int tempa= score_code[copyCount];
                    if(key.length()> 4) {
                        //全词
                        for(int j= 0; j< string.length; j++) {
                            if(temps.contains(string[j])) {
                                tempb+= code;
                            }
                        }
                        //断句
                        for(int j= 0; j< stringReg.length; j++) {
                            if(temps.contains(stringReg[j])) {
                                tempb+= code;
                            }
```

```
                    }
                    score_code[copyCount]= (int) (tempa/Math.pow(HRJFrame.NE.lookrot+ 1, 4)
                            + tempb*Math.pow(Integer.valueOf(sets[3]), 2));
                }
                if(key.replace(" ", "").length()> 1&& key.replace(" ", "").length()< 5) {
                    if(temps.contains(key.replace(" ", ""))) {
                        tempb+= code<< 7;
                    }
                    score_code[copyCount]= (int) (tempa/Math.pow(Integer.valueOf(sets[3])+ 1, 4)
                            + tempb*Math.pow(Integer.valueOf(sets[3]), 2));
                }
                copyCount++;
            }
            LABEL2:
                new Quick9DLYGWithString_ESU().sort(score_code, score);
            int max= score_code[0];
            Object[][] tableData= new Object[count][18];
            int new_count= 0;
            //newTableModel.getDataVector().clear();
            //if(null= = key|| key.equals("")) {
            //    return;
            //}
            //recordRows 没有 值
            //recordRows 有 值
            Here:
                for(int i= score.length- 1; i> 0; i--) {
                    if(score_code[i]< 1){
                        continue Here;
                    }
                    outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(map.get(score[i])));
                }
            output.clear();
            output.addAll(outputTemp);
            return;
        }
        int max= 50;
        //获取 table 的 row
        Here:
            for(int i= 0; i< table.huaRuiJiJtableRows.length; i++ ) {
                //if(i> max) {
                //    continue Here;
                //}
                Row row= table.huaRuiJiJtableRows[i];
                if(sets[1].equalsIgnoreCase("<")||sets[1].equalsIgnoreCase("-lt")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    //大家看见没， rowvalue 是 db 的 Row 单例，这里竟然是 output 的 iterator。2019 年被动手脚了。
                    if(new BigDecimal(rowCellFromString).doubleValue() < new BigDecimal(sets[2]).doubleValue()) {
```

```
                        outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                    }
                }
                if(sets[1].equalsIgnoreCase("<= ")||sets[1].equalsIgnoreCase("= <")
                        ||sets[1].equalsIgnoreCase("-lte")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    if(new BigDecimal(rowCellFromString).doubleValue() <=    new
BigDecimal(sets[2]).doubleValue()) {
                        outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                    }
                }
                if(sets[1].equalsIgnoreCase("= = ")||sets[1].equalsIgnoreCase("= ")||sets[1].equalsIgnoreCase("= =
= ")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    if(new BigDecimal(rowCellFromString).doubleValue()= =    new
BigDecimal(sets[2]).doubleValue()) {
                        outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                    }
                }
                if(sets[1].equalsIgnoreCase(">= ")||sets[1].equalsIgnoreCase("= >")
                        ||sets[1].equalsIgnoreCase("-gte")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    if(new BigDecimal(rowCellFromString).doubleValue() >= new
BigDecimal(sets[2]).doubleValue()) {
                        outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                    }
                }
                if(sets[1].equalsIgnoreCase(">")||sets[1].equalsIgnoreCase("-gt")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    if(new BigDecimal(rowCellFromString).doubleValue() > new
BigDecimal(sets[2]).doubleValue()) {
                        outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                    }
                }
                if(sets[1].equalsIgnoreCase("字符串长度大于")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    if(rowCellFromString.length()> new BigDecimal(sets[2]).doubleValue()) {
                        outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                    }
                }
                if(sets[1].equalsIgnoreCase("字符串长度小于")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    if(rowCellFromString.length()< new BigDecimal(sets[2]).doubleValue()) {
                        outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                    }
                }
                if(sets[1].equalsIgnoreCase("!= ")||sets[1].equalsIgnoreCase("= !")) {
                    String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                    if(new BigDecimal(rowCellFromString).doubleValue() != new
```

```
BigDecimal(sets[2]).doubleValue()) {
                                outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            }
                        }
                        if(sets[1].equalsIgnoreCase("包含")) {
                            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                            if(rowCellFromString.contains(sets[2])) {
                                outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            }
                        }
                        if(sets[1].equalsIgnoreCase("过滤掉")||sets[1].equalsIgnoreCase("不包含")) {
                            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                            if(!rowCellFromString.contains(sets[2])) {
                                outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            }
                        }
                        if(sets[1].equalsIgnoreCase("equal")) {
                            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                            if(rowCellFromString.equalsIgnoreCase(sets[2])) {
                                outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            }
                        }
                        if(sets[1].equalsIgnoreCase("!equal")) {
                            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                            if(!rowCellFromString.equalsIgnoreCase(sets[2])) {
                                outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            }
                        }
                        if(sets[1].equalsIgnoreCase("in")) {
                            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                            String set= "," + sets[2] + ",";
                            if(set.contains("," + rowCellFromString + ",")){
                                outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            }
                        }
                        if(sets[1].equalsIgnoreCase("!in")) {
                            String rowCellFromString= row.getCell(sets[0]).getCellValue().toString();
                            String set= "," + sets[2] + ",";
                            if(!set.contains("," + rowCellFromString + ",")){
                                outputTemp.add(P_CO_pl_XA_XCDX_Map.rowToRowMap(row));
                            }
                        }
                    }
                output.clear();
                output.addAll(outputTemp);
        }
}
```

```
package OSM.shell;
```

```
import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.IOException;
import java.math.BigDecimal;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import MS.OP.SM.AOP.MEC.SIQ.cache.DetaDBBufferCache_M;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Cell;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Row;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Table;
@SuppressWarnings({ "unused"})
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作 罗瑶光
public class P_CO_pl_XA_XCDX {
//     public void P_Cache(String[] sets, List<Map<String, Object>> output
//     , String tableName, String baseName, Map<String, Object> object) {}
//
//     //以后优化成统一对象输出，不需要再转换。2019-1-15 tin
//     Map<String, Object> rowToRowMap(Row row) {}
//
//     public void P_Map(String[] sets, List<Map<String, Object>> output, String dBTablePath) {}
//
//     //plsql 引擎函数获取表开始检查 罗瑶光 20210405    //奇怪了 这是一个没有读 缓存的 plsql 引擎,我准备对比下 history
//     //object 指令堆栈
//     //output 数据行
//     public void P_Table(String[] sets, List<Map<String, Object>> output
//     , String DBTablePath, Map<String, Object> object) throws IOException {}
//
//     //比较是否有数据取出列表到输出 检验中 罗瑶光 20210405
//     //这个走硬盘查询函数来标识下，在我设计了数据缓存查询启动函数 后就没用过了，时间点大概在 2019 年 1 月后，我先调通下，之后朔源.
//     //准备验算下 20210406 罗瑶光
//     public void P_kernel(String temp, File readDBTableRowIndexCulumnFile, File readDBTableRowIndexFile
//     , BufferedReader reader, String DBTableRowIndexPath, List<Map<String, Object>> output, Row bufferRow
//     , Map<String, Object> rowMap) throws IOException {}
}
-----------------------------------------------------------------------------------------------------------------------------
package OSM.shell;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作 罗瑶光
```

```
@SuppressWarnings({"unused", "unchecked"})
public class P_I_CulumnsPL_XA {
	public static Object getCulumnsMapWithAs(String[] sets, Map<String, Object> row) {
		return row.get(sets[2]);
	}
	public static Object getCulumnsMap(String[] sets,    Map<String, Object> row) {
		return row.get(sets[0]);
	}
	public static Object P_GetCulumnsMap(List<Map<String, Object>> obj, String[] getCulumnsValueArray) {
		List<Map<String, Object>> newobj= new ArrayList<Map<String, Object>>();
		Iterator<Map<String, Object>> iterator= obj.iterator();
		int count= 0;
		NextRow:
			while(iterator.hasNext()) {
				int rowId= count ++;
				Map<String, Object> row= iterator.next();
				Map<String, Object> newRow= new HashMap<>();
				Map<String, Object> rowValue= new HashMap<>();
				NextCell:
					for(int i= 1; i < getCulumnsValueArray.length; i++) {
						String[] sets= getCulumnsValueArray[i].split("\\|");
						if(null != sets && ((Map<String, Object>)row.get("rowValue")).containsKey(sets[0])) {
							Map<String, Object> cell
							= (Map<String, Object>)((Map<String, Object>)row.get("rowValue")).get(sets[0]);
							if(1= = sets.length) {
								rowValue.put(sets[0], cell);
								continue NextCell;
							}
							if(3= = sets.length && sets[1].equalsIgnoreCase("改名为")) {
								cell.put("culumnName", sets[2]);
								rowValue.put(sets[2], cell);
								continue NextCell;
							}
						}
					}
				newRow.put("rowValue", rowValue);
				newobj.add(newRow);
			}
		obj.clear();
		return obj.addAll(newobj);
	}
}
```

```
package OSM.shell;
import java.math.BigDecimal;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
```

```
import java.util.Map;
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作 罗瑶光
@SuppressWarnings({"unused","unchecked"})
public class P_RelationPL_XA {
	public static void P_AndMap(String[] sets, List<Map<String, Object>> obj
			, List<Map<String, Object>> joinObj
			, Map<String, Object> object, List<Map<String, Object>> newObj) {
		List<Map<String, Object>> newObjTemp= new ArrayList<>();
		Iterator<Map<String, Object>> iterator= newObj.iterator();
		int count= 0;
		while(iterator.hasNext()) {
			int objRowId= count++;
			Map<String, Object> objRow= iterator.next();
			if(objRow.containsKey(sets[0])&&objRow.containsKey(sets[2])) {
				if(sets[1].equalsIgnoreCase("= = ") || sets[1].equalsIgnoreCase("= = = ")) {
					if(new BigDecimal(objRow.get(sets[0]).toString()).doubleValue()
							= = new BigDecimal(objRow.get(sets[2]).toString()).doubleValue()) {
						newObjTemp.add(objRow);
					}
				}
				if(sets[1].equalsIgnoreCase("!= ") || sets[1].equalsIgnoreCase("= !")
						|| sets[1].equalsIgnoreCase("<>") || sets[1].equalsIgnoreCase("><")) {
					if(new BigDecimal(objRow.get(sets[0]).toString()).doubleValue()
							!= new BigDecimal(objRow.get(sets[2]).toString()).doubleValue()) {
						newObjTemp.add(objRow);
					}
				}
				if(sets[1].equalsIgnoreCase(">= ") || sets[1].equalsIgnoreCase("= >")) {
					if(new BigDecimal(objRow.get(sets[0]).toString()).doubleValue()
							>= new BigDecimal(objRow.get(sets[2]).toString()).doubleValue()) {
						newObjTemp.add(objRow);
					}
				}
				if(sets[1].equalsIgnoreCase(">")) {
					if(new BigDecimal(objRow.get(sets[0]).toString()).doubleValue()
							> new BigDecimal(objRow.get(sets[2]).toString()).doubleValue()) {
						newObjTemp.add(objRow);
					}
				}
				if(sets[1].equalsIgnoreCase("<")) {
					if(new BigDecimal(objRow.get(sets[0]).toString()).doubleValue()
							< new BigDecimal(objRow.get(sets[2]).toString()).doubleValue()) {
						newObjTemp.add(objRow);
					}
				}
				if(sets[1].equalsIgnoreCase("<= ") || sets[1].equalsIgnoreCase("<= ")) {
					if(new BigDecimal(objRow.get(sets[0]).toString()).doubleValue()
							<= new BigDecimal(objRow.get(sets[2]).toString()).doubleValue()) {
						newObjTemp.add(objRow);
```

```
                    }
                }
                if(sets[1].equalsIgnoreCase("equal")) {
                    if(objRow.get(sets[0]).toString().equals(objRow.get(sets[2]).toString())){
                        newObjTemp.add(objRow);
                    }
                }
                if(sets[1].equalsIgnoreCase("!equal") || sets[1].equalsIgnoreCase("equal!")) {
                    if(!objRow.get(sets[0]).toString().equals(objRow.get(sets[2]).toString())){
                        newObjTemp.add(objRow);
                    }
                }
                if(sets[1].equalsIgnoreCase("in")) {
                    String set= "," + objRow.get(sets[2]).toString() + ",";
                    if(set.contains(objRow.get(sets[0]).toString())){
                        newObjTemp.add(objRow);
                    }
                }
                if(sets[1].equalsIgnoreCase("!in")) {
                    String set= "," + objRow.get(sets[2]).toString() + ",";
                    if(!set.contains(objRow.get(sets[0]).toString())){
                        newObjTemp.add(objRow);
                    }
                }
            }
        }
    }
    public static void P_OrMap(String[] sets, List<Map<String, Object>> obj
            , List<Map<String, Object>> joinObj
            , Map<String, Object> object, List<Map<String, Object>> newObj
            , Map<String, Boolean> findinNewObj) {
        Iterator<Map<String, Object>> iterator= obj.iterator();
        int count= 0;
        while(iterator.hasNext()) {
            int objRowId= count++;
            Map<String, Object> objRow= iterator.next();
            Map<String, Object> row= (Map<String, Object>) objRow.get("rowValue");
            Iterator<Map<String, Object>> iteratorJoin= joinObj.iterator();
            int countJoin= 0;
            while(iteratorJoin.hasNext()) {
                int objJoinRowId= countJoin++;
                Map<String, Object> objJoinRow= iteratorJoin.next();
                Map<String, Object> joinRow= (Map<String, Object>) objJoinRow.get("rowValue");
                Map<String, Object> cell= (Map<String, Object>) row.get(sets[0]);
                Map<String, Object> cellJoin= (Map<String, Object>) joinRow.get(sets[2]);
                if(sets[1].equalsIgnoreCase("= = ") || sets[1].equalsIgnoreCase("= = = ")) {
                    if(new BigDecimal(cell.get("culumnValue").toString()).doubleValue()
                            = = new BigDecimal(cellJoin.get("culumnValue").toString()).doubleValue()) {
                        if(!findinNewObj.containsKey(objRowId + ":" + objJoinRowId)) {
```

```
                                    Map<String, Object> newObjRow= new HashMap<>();
                                    Map<String, Object> newRow= new HashMap<>();
                                    newRow.putAll((Map<? extends String, ? extends Object>)
objJoinRow.get("rowValue"));
                                    newRow.putAll((Map<? extends String, ? extends Object>)
objRow.get("rowValue"));
                                    newObjRow.put("rowValue", newRow);
                                    newObj.add(newObjRow);
                                    findinNewObj.put(objRowId + ":" + objJoinRowId, true);
                                }
                            }
                        }
                        if(sets[1].equalsIgnoreCase("equal")) {
                            if(cell.get("culumnValue").toString().equals(cellJoin.get("culumnValue").toString())) {
                                if(!findinNewObj.containsKey(objRowId + ":" + objJoinRowId)) {
                                    Map<String, Object> newObjRow= new HashMap<>();
                                    Map<String, Object> newRow= new HashMap<>();
                                    newRow.putAll((Map<? extends String, ? extends Object>)
objJoinRow.get("rowValue"));
                                    newRow.putAll((Map<? extends String, ? extends Object>)
objRow.get("rowValue"));
                                    newObjRow.put("rowValue", newRow);
                                    newObj.add(newObjRow);
                                    findinNewObj.put(objRowId + ":" + objJoinRowId, true);
                                }
                            }
                        }
                    }
                }
            }
        }
    }
}
```

```
package OSM.shell;
import java.io.File;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.concurrent.CopyOnWriteArrayList;
import OSA.shell. XA_ShellQ_JoinRows_E;
import OSA.shell.SearchShellQ_Rows_E;
import OSA.shell.XA_ShellTable;
import OSA.shell.XA_ShellTables;
import PEU.P.cache.*;
@SuppressWarnings("unchecked")
public class Pl_XA_Command_E {
    public static void P_SetRoot(String[] acknowledge, Map<String, Object> output) throws Exception {
        String dbPath= acknowledge[1];
        for(int i= 2; i<acknowledge.length; i++) {
            dbPath += ":" + acknowledge[i];
```

```
        }
        if(null != Cache_M.getCacheInfo("DBPath")) {
            File file= new File(dbPath);
            if(!file.exists()) {
                file.mkdirs();
                Cache c= new Cache();
                c.I_Value(dbPath);
                Cache_M.putCache("DBPath", c);
            }else if(file.isFile()) {
                throw new Exception();
            }else if(file.isDirectory()) {
                Cache c= new Cache();
                c.I_Value(dbPath);
                Cache_M.putCache("DBPath", c);
            }
        }
    }
    public static void P_BaseName(String[] acknowledge, Map<String, Object> object) {
        object.put(acknowledge[0], acknowledge[1]);
    }
    public static void P_TableName(String[] acknowledge, Map<String, Object> object) {
        object.put(acknowledge[0], acknowledge[1]);
        object.put("type", acknowledge[2]);
    }
    public static void P_ListNeedStart(String[] acknowledge, Map<String, Object> object) {
        object.put("start", "1");
        if(object.containsKey(acknowledge[0])) {
            List<String[]> relationValues= (List<String[]>) object.get(acknowledge[0]);
            relationValues.add(acknowledge);
            object.put(acknowledge[0], relationValues);
            return;
        }
        List<String[]> relationValues= new CopyOnWriteArrayList<>();
        relationValues.add(acknowledge);
        object.put(acknowledge[0], relationValues);
    }
    public static void P_Join(String[] acknowledge, Map<String, Object> object) {
        if(object.get("countJoins").toString().equals("1")) {
            object.put("countJoins", "n");
        }
        if(object.get("countJoins").toString().equals("0")) {
            object.put("countJoins", "1");
        }
        object.put("joinBaseName", acknowledge[1]);
        object.put("joinTableName", acknowledge[2]);
    }
    public static void P_E(String[] acknowledge, Map<String, Object> object, boolean mod) throws Exception {
        if(object.get("start").toString().equals("1")) {
            if(!acknowledge[0].equalsIgnoreCase(object.get("lastCommand").toString())
```

```
                    &&(object.get("lastCommand").toString().contains("changeCulumnName")
                            ||object.get("lastCommand").toString().contains("culumnValue")
                            ||object.get("lastCommand").toString().contains("条件为")
                            ||object.get("lastCommand").toString().contains("relation")
                            ||object.get("lastCommand").toString().contains("操作")
                            ||object.get("lastCommand").toString().contains("PLETL")
                            ||object.get("lastCommand").toString().contains("PLTCP")
                            ||object.get("lastCommand").toString().contains("获取表列名")
                            ||object.get("lastCommand").toString().contains("culumnName")
                            ||object.get("lastCommand").toString().contains("relation"))) {
                P_E_Kernel(object, mod);
            }
        }
    }
    //处理机中心, 别急, 准备验证 罗瑶光
    private static void P_E_Kernel(Map<String, Object> object, boolean mod) throws Exception{
        if(object.get("type").toString().equalsIgnoreCase("进行选择") &&
                (object.get("countJoins").toString().equalsIgnoreCase("0") ||
                        (object.get("countJoins").toString().equalsIgnoreCase("1") &&
                                object.get("newCommand").toString().equalsIgnoreCase("join")))){
            if(object.containsKey("条件为")) {
                object.put("obj", SearchShellQ_Rows_E.selectRowsByAttributesOfCondition(object));
            }
            if(object.containsKey("操作")) {
                //plsearch 的筛选 在这里拓展。罗瑶光 20210927
                object.put("obj", SearchShellQ_Rows_E.selectRowsByAttributesOfAggregation(object));
            }
            if(object.containsKey("获取表列名")) {
                object.put("obj", SearchShellQ_Rows_E.selectRowsByAttributesOfGetCulumns(object));
            }
            if(object.containsKey("PLETL")) {
                object.put("obj", SearchShellQ_Rows_E.selectRowsByAttributesOfPLETL(object));
            }
            if(object.containsKey("PLTCP")) {
                object.put("obj", SearchShellQ_Rows_E.selectRowsByAttributesOfPLTCP(object));
            }
            object.remove("recordRows");
        }
        if(object.get("type").toString().equalsIgnoreCase("进行选择") &&
                (object.get("countJoins").toString().equalsIgnoreCase("n") ||
                        (object.get("countJoins").toString().equalsIgnoreCase("1") &&
                                !object.get("newCommand").toString().equalsIgnoreCase("join")))){
            if(object.containsKey("condition")) {
                object.put("joinObj",
XA_ShellQ_JoinRows_E.selectRowsByAttributesOfJoinCondition(object));
            }
            if(object.containsKey("relation")) {
                object.put("obj",    XA_ShellQ_JoinRows_E.selectRowsByAttributesOfJoinRelation(object));
            }
```

```
            if(object.containsKey("aggregation")) {
                //object.put("obj",    XA_ShellQ_JoinRows_E.selectRowsByAttributesOfJoinAggregation(object));
            }
            if(object.containsKey("getCulumns")) {
                object.put("joinObj",
XA_ShellQ_JoinRows_E.selectRowsByAttributesOfJoinGetCulumns(object));
            }
            if(object.containsKey("PLETL")) {
                //     object.put("obj", SearchShellQ_Rows_E.selectRowsByAttributesOfPLETL(object));
            }
            object.remove("recordRows");
        }
        if(object.get("type").toString().equalsIgnoreCase("create")){
            if(object.containsKey("culumnName")) {
                //I_Tables_E.I_Table(object, mod);
            }
            object.remove("recordRows");
        }
        //离散数学的 conjuction 变换    a^&&b^&&c * kernel[]= (a^&&b^)^^&&c * kernel[]= (a||b)^&&c *
kernel[]
        if(object.get("type").toString().equalsIgnoreCase("update") &&
                (object.get("countJoins").toString().equalsIgnoreCase("0") ||
                        (object.get("countJoins").toString().equalsIgnoreCase("1") &&
                                object.get("newCommand").toString().equalsIgnoreCase("join")))){
            if(object.containsKey("condition")) {
                //object.put("updateObj", U_Rows_E.updateRowsByAttributesOfCondition(object, mod));
            }
            if(object.containsKey("aggregation")) {
                //object.put("updateObj", U_Rows_E.updateRowsByAttributesOfAggregation(object, mod));
            }
            if(object.containsKey("culumnValue")) {
                //U_Rows_E.updateRowsByRecordConditions(object, mod);
            }
            object.remove("recordRows");
        }
        if(object.get("type").toString().equalsIgnoreCase("update") &&
                (object.get("countJoins").toString().equalsIgnoreCase("n") ||
                        (object.get("countJoins").toString().equalsIgnoreCase("1") &&
                                !object.get("newCommand").toString().equalsIgnoreCase("join")))){
            if(object.containsKey("condition")) {
                //object.put("updateJoinObj", U_JoinRows_E.updateRowsByAttributesOfJoinCondition(object,
mod));
            }
            if(object.containsKey("relation")) {
                //object.put("updateObj", U_JoinRows_E.updateRowsByAttributesOfJoinRelation(object, mod));
            }
            if(object.containsKey("aggregation")) {
                //object.put("updateObj", U_JoinRows_E.updateRowsByAttributesOfJoinAggregation(object,
mod));
```

```
            }
            if(object.containsKey("culumnValue")) {
                //U_Rows_E.updateRowsByRecordConditions(object, mod);
            }
            object.remove("recordRows");
        }
        if(object.get("type").toString().equalsIgnoreCase("insert")) {
            if(object.containsKey("culumnValue")) {
                //IU_Rows_E.IU_RowByAttributes(object, mod);
            }
        }
        if(object.get("type").toString().equalsIgnoreCase("delete")) {
            if(object.containsKey("condition")) {
                //D_Rows_E.D_RowByAttributesOfCondition(object, mod);
            }
        }
        object.remove("条件为");
        object.remove("culumnName");
        object.remove("changeCulumnName");
        object.remove("relation");
        object.remove("操作");
        object.remove("获取表列名");
        object.remove("PLETL");
        object.remove("PLTCP");
        object.put("start", "0");
    }
    //plsql 函数执行指令  正在检查中  罗瑶光  20210405
    public static void P_Check(String acknowledge, Map<String, Object> object, boolean mod) throws Exception {
        if(object.get("start").toString().equals("1")) {
            P_E_Kernel(object, mod);
        }
        List<Map<String, Object>> obj= ((List<Map<String, Object>>)(object.get("obj")));
        int totalPages= 0;
        if(obj != null) {
            totalPages= obj.size();
        }
        int rowBeginIndex= object.containsKey("pageBegin")?
Integer.valueOf(object.get("pageBegin").toString()):0;
        int rowEndIndex=
object.containsKey("pageEnd")?Integer.valueOf(object.get("pageEnd").toString()):totalPages>15?15:totalPages;
        object.put("pageBegin", rowBeginIndex);
        object.put("pageEnd", rowEndIndex);
        //    String DBPath= Cache_M.getCacheInfo("DBPath").getValue().toString() + "/" +
object.get("baseName").toString();
        //    String DBTablePath= DBPath + "/" + object.get("tableName").toString();
        object.put("tablePath", object.get("获取表名").toString());
        object.put("returnResult", "success");
        object.put("totalPages", totalPages);
        object.put("loginInfo", "success");
```

```
            List<Object> spec= new ArrayList<>();
            //     Iterator<String> iterator= new ArrayList<String>().iterator();
            //     if(obj= = null || obj.size()< 1) {
            ////Base base= DetaDBBufferCache_M.db.getBase(object.get("baseName").toString());
            //XA_ShellTable table= XA_ShellTables.XA_ShellTables.get(object.get("tableName").toString());
            //Object[] specs= table.getHuaRuiJiJtableCulumns();
            //     }else {//进行 map 验证检测 罗瑶光 20210405
            //Map<String, Object> map= obj.get(0);
            //Map<String, Object> objectInMap= (Map<String, Object>)map.get("rowValue");
            //iterator= null= = objectInMap? null:objectInMap.keySet().iterator();
            //     }
            XA_ShellTable table= XA_ShellTables.XA_ShellTables.get(object.get("获取表名").toString());
            Object[] specs= table.getHuaRuiJiJtableCulumns();
            for(Object specS: specs) {
                spec.add(specS);
            }
            object.put("spec", spec);
        }
}
```

```
package OSM.shell;
import java.io.BufferedReader;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.util.HashMap;
import java.util.Map;
import OEU.LYG4DQS4D.LYG10DWCMSSort13D_XCDX_C_A_S;
import PEU.P.table.TableSorterZYNK;
import PEU.S.verbal.VerbalSource;
import SVQ.stable.StableFile;
public class SortStringDemo{
    public static Map<String, String> pinYin= null;
    public static Map<String, Integer> biHua= null;
    public static void initMap() {
        try {
            if(null!= pinYin|| null!= biHua) {
                return;
            }
            InputStream inputStreamp= new
VerbalSource().getClass().getResourceAsStream(StableFile.PinYinCN_lyg);
            BufferedReader cReaderp= new BufferedReader(new InputStreamReader(inputStreamp, "GBK"));
            //index
            String cInputStringp;
            Map<String, String> map= new HashMap<>();
            biHua= new HashMap<>();
            while ((cInputStringp= cReaderp.readLine())!= null) {
                String[] words= cInputStringp.split("->");
                if(words.length>1) {
                    map.put(words[0], words[1]);
```

```
                }
            }
            cReaderp.close();
            InputStream inputStreamb= new
VerbalSource().getClass().getResourceAsStream(StableFile.BiHuaCN_lyg);
            BufferedReader cReaderb= new BufferedReader(new InputStreamReader(inputStreamb, "GBK"));
            //index
            String cInputStringb;
            while ((cInputStringb= cReaderb.readLine())!= null) {
                String[] words= cInputStringb.split("->");
                if(words.length>1) {
                    biHua.put(words[0], Integer.valueOf(words[1]));
                }
            }
            pinYin= map;
            cReaderb.close();
        }catch(Exception e) {
        }
    }
    @SuppressWarnings("unused")
    public static void main(String[] argv) {
        initMap();
        TableSorterZYNK tableSorterZYNK= new TableSorterZYNK();
        String[] strings= new String[10];
        strings[0]= "luoy 罗瑶光 uang";
        strings[1]= "罗瑶光";
        strings[2]= "瑶光";
        strings[3]= "罗瑶";
        strings[4]= "yaoguang";
        strings[5]= "y 瑶光 g";
        strings[6]= "yaog 瑶光 ng";
        strings[7]= "y 瑶光 guang";
        strings[8]= "ya 罗瑶光 ang";
        strings[9]= "yaoguang";
        int returnInt= new LYG10DWCMSSort13D_XCDX_C_A_S()
                .quick4DChineseStringArrayWithSmallInTwoChar3bihuaReturns(strings
                        , 0, 9, 30, pinYin, biHua, 7, 70);
        for(String string:strings){
            System.out.println(string);
        }
    }
}
```

```
package OSA.shell;
import java.util.Map;
//稍后将 DMA 文件与内存操作替换成 jtable 表内存操作  罗瑶光
public interface Pl_XA_C{
    public String getPLSearch();
    public void I_PLSearch(String pLSearch);
```

```
    public Pl_XA_C withTableCreate(String tableName);
    public Pl_XA_C withTableDelete(String tableName);
    public Pl_XA_C withTableInsert(String tableName);
    public Pl_XA_C withTableUpdate(String tableName);
    public Pl_XA_C withTableSelect(String tableName);
    public Pl_XA_C getCulumns();
    public Pl_XA_C startAtRootDir(String rootAddress);
    public Pl_XA_C withBaseName(String baseName);
    public Pl_XA_C withCondition(String conditionType);
    public Pl_XA_C let(String leftSet);
    public Pl_XA_C lessThanAndEqualTo(String compareSet);
    public Pl_XA_C equalTo(String compareSet);
    public Pl_XA_C lessThan(String compareSet);
    public Pl_XA_C greatThan(String compareSet);
    public Pl_XA_C greatThanAndEqualTo(String compareSet);
    public Pl_XA_C notEqualTo(String compareSet) ;
    public Pl_XA_C in(String compareSet) ;
    public Pl_XA_C notIn(String compareSet) ;
    public Pl_XA_C equals(String compareSet);
    public Pl_XA_C notEquals(String compareSet);
    public Pl_XA_C innerJoinWithTable(String baseName, String tableName);
    public Pl_XA_C withRelation(String relationType) ;
    public Pl_XA_C as(String compareSet) ;
    public Pl_XA_C upTo(String compareSet);
    public Pl_XA_C withAggregation(String aggregationType);
    public Pl_XA_C changeCulumnName(String newCulumnName, String oldCulumnName);
    public Pl_XA_C withCulumnName(String culumnName, String dataType);
    public Pl_XA_C withCulumnValue(String culumnName, String culumnValue);
    public Pl_XA_C checkErrors(String string);
    public Pl_XA_C fixErrors(String string);
    public Pl_XA_C finalE(boolean b) throws Exception;
    public Map<String, Object> returnAsMap();
    public Pl_XA_C checkAndFixPlSearchGrammarErrors();
    public Pl_XA_C checkAndFixSystemEnvironmentErrors();
    public Pl_XA_C withTableDrop(String tabKey);
}
```

```
package OSA.shell;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import javax.swing.table.DefaultTableModel;
import ME.APM.VSQ.App;
import OSI.AOP.MEC.SIQ.plorm.Const;
import OSM.shell.E_pl_XA_E;
//1 我的逻辑很简单， 仅仅按照 PLORM 进行 PLSearch ，将 deta 数据库操作 用在
//养疗经的界面表操作上。先不设计改和写操作。
//2 用 XA 元基 来代替 search 词汇。
// 准备用 DefaultTableModel 来做输出对象， 因为养疗经的内存表是这个容器。
// 罗瑶光
```

```
@SuppressWarnings("unused")
public class Pl_XA_E implements Pl_XA_C{
	private DefaultTableModel defaultTableModel;
	private Object[][] tableData_old;
	private App app;
	private String PLSearch= "";
	private String[] PLSearchArray;
	private Map<String, Object> map;
	public String getPLSearch() {
		return PLSearch;
	}
	public void I_PLSearch(String pLSearch) {
		PLSearch= pLSearch;
	}
	public Pl_XA_E startAtRootDir(String rootAddress) {
		PLSearch= Const.SET_ROOT+ Const.COLON+ rootAddress
				+ Const.SEMICOLON;
		return this;
	}
	public Pl_XA_E withBaseName(String baseName) {
		PLSearch+= Const.SEMICOLON+ Const.BASE_NAME+ Const.COLON
				+ baseName;
		return this;
	}
	//
	public Pl_XA_E withTableSelect (String tableName) {
		PLSearch+= Const.SEMICOLON+ Const.TABLE_NAME+ Const.COLON
				+ tableName
				+ Const.COLON+ Const.SELECT;
		return this;
	}
	public Pl_XA_E withTableCreate(String tableName) {
		PLSearch+= Const.SEMICOLON+ Const.TABLE_NAME+ Const.COLON
				+ tableName
				+ Const.COLON+ Const.CREATE;
		return this;
	}
	public Pl_XA_C withTableDrop(String tableName) {
		PLSearch+= Const.SEMICOLON+ Const.TABLE_NAME+ Const.COLON
				+ tableName
				+ Const.COLON+ Const.DROP;
		return this;
	}
	public Pl_XA_E withTableDelete(String tableName) {
		PLSearch+= Const.SEMICOLON+ Const.TABLE_NAME+ Const.COLON
				+ tableName
				+ Const.COLON+ Const.DELETE;
		return this;
	}
```

```
public Pl_XA_E withTableInsert(String tableName) {
	PLSearch+= Const.SEMICOLON+ Const.TABLE_NAME+ Const.COLON
			+ tableName
			+ Const.COLON+ Const.INSERT;
	return this;
}
public Pl_XA_E withTableUpdate(String tableName) {
	PLSearch+= Const.SEMICOLON+ Const.TABLE_NAME+ Const.COLON
			+ tableName
			+ Const.COLON+ Const.UPDATE;
	return this;
}
public Pl_XA_E withCondition(String conditionType) {
	PLSearch+= Const.SEMICOLON+ Const.CONDITION+ Const.COLON
			+ conditionType;
	return this;
}
public Pl_XA_E let(String leftSet) {
	PLSearch+= Const.COLON+ leftSet;
	return this;
}
public Pl_XA_E lessThanAndEqualTo(String compareSet) {
	PLSearch+= Const.LESS_THAN_AND_EQUAL_TO+ compareSet;
	return this;
}
public Pl_XA_E equalTo(String compareSet) {
	PLSearch+= Const.EQUAL_TO+ compareSet;
	return this;
}

public Pl_XA_E lessThan(String compareSet) {
	PLSearch+= Const.LESS_THAN+ compareSet;
	return this;
}
public Pl_XA_E greatThan(String compareSet) {
	PLSearch+= Const.GREAT_THAN+ compareSet;
	return this;
}
public Pl_XA_E greatThanAndEqualTo(String compareSet) {
	PLSearch+= Const.GREAT_THAN_AND_EQUAL_TO+ compareSet;
	return this;
}
public Pl_XA_E notEqualTo(String compareSet) {
	PLSearch+= Const.NOT_EQUAL_TO+ compareSet;
	return this;
}
public Pl_XA_E in(String compareSet) {
	PLSearch+= Const.IN+ compareSet;
	return this;
```

```
}
public Pl_XA_E notIn(String compareSet) {
	PLSearch+= Const.NOT_IN+ compareSet;
	return this;
}
public Pl_XA_E equals(String compareSet) {
	PLSearch+= Const.EQUALS+ compareSet;
	return this;
}
public Pl_XA_E notEquals(String compareSet) {
	PLSearch+= Const.NOT_EQUALS+ compareSet;
	return this;
}
public Pl_XA_E innerJoinWithTable(String baseName, String tableName) {
	PLSearch+= Const.SEMICOLON+ Const.JOIN+ Const.COLON+ baseName
			+ Const.COLON+ tableName;
	return this;
}
public Pl_XA_E withRelation(String relationType) {
	PLSearch+= Const.SEMICOLON+ Const.RELATION+ Const.COLON
			+ relationType;
	return this;
}
public Pl_XA_E as(String compareSet) {
	PLSearch+= Const.AS+ compareSet;
	return this;
}
public Pl_XA_E upTo(String compareSet) {
	PLSearch+= Const.UP_TO+ compareSet;
	return this;
}
public Pl_XA_E withAggregation(String aggregationType) {
	PLSearch+= Const.SEMICOLON+ Const.WITH_AGGREGATION
			+ Const.COLON+ aggregationType;
	return this;
}
public Pl_XA_E getCulumns() {
	PLSearch+= Const.SEMICOLON+ Const.GET_CULUMNS;
	return this;
}
public Pl_XA_E changeCulumnName(String newCulumnName, String oldCulumnName) {
	PLSearch+= Const.SEMICOLON+ Const.CHANGES_CULUMN_NAME+ Const.COLON
			+ newCulumnName+ Const.COLON+ oldCulumnName;
	return this;
}
public Pl_XA_E withCulumnName(String culumnName, String dataType) {
	PLSearch+= Const.SEMICOLON+ Const.CULUMN_NAME+ Const.COLON+ culumnName
			+ Const.COLON+ dataType;
	return this;
```

```
}
public Pl_XA_E withCulumnValue(String culumnName, String culumnValue) {
	PLSearch+= Const.SEMICOLON+ Const.CULUMN_VALUE+ Const.COLON+ culumnName
			+ Const.COLON+ culumnValue;
	return this;
}
public Pl_XA_C exec(boolean b) throws Exception {
	//map= E_pl_XA_E.E_PLORM(this, true);
	return this;
}
@Override
public Pl_XA_C checkErrors(String string) {
	return this;
}
@Override
public Pl_XA_C fixErrors(String string) {
	return this;
}
@Override
public Pl_XA_C finalE(boolean b) throws Exception {
	map= E_pl_XA_E.E_PLSearch(this, true, new ConcurrentHashMap<>());
	//这里需要 把数据库的 编译机器也重设计成执行内存操作的模式。
	return this;
}
@Override
public Map<String, Object> returnAsMap() {
	return this.map;
}
@Override
public Pl_XA_C checkAndFixPlSearchGrammarErrors() {
	//string to array
	this.PLSearchArray= PLSearch.split(Const.SEMICOLON);
	//条件检查 1 过滤  2 修改 3 语义检测
	//1
	for(int i= 1; i< PLSearchArray.length; i++) {
		//1.1 过滤相同句型
		//1.2 过滤无效字符
		//1.3 过滤攻击代码
		if(PLSearchArray[i].equalsIgnoreCase(PLSearchArray[i- 1])) {
			PLSearchArray[i]= "";
		}
		PLSearchArray[i]= PLSearchArray[i].replaceAll(">+", ">");
		PLSearchArray[i]= PLSearchArray[i].replaceAll("<+", "<");
		PLSearchArray[i]= PLSearchArray[i].replaceAll("\\!+", "!");
		PLSearchArray[i]= PLSearchArray[i].replaceAll("\\~+", "~");
		PLSearchArray[i]= PLSearchArray[i].replaceAll("\\@+", "@");
		PLSearchArray[i]= PLSearchArray[i].replaceAll("\\&&+", "&&");
		PLSearchArray[i]= PLSearchArray[i].replaceAll("\\|\\|+", "||");
		PLSearchArray[i]= PLSearchArray[i].replaceAll("\\[+", "[");
```

```
                PLSearchArray[i]= PLSearchArray[i].replaceAll("\\]+", "]");
                PLSearchArray[i]= PLSearchArray[i].replaceAll("\\:+", ":");
                PLSearchArray[i]= PLSearchArray[i].replaceAll("\\s+", "");
            }
            //2
            //2.1 修改错误比较符号
            //2.2 修改错误语法关键字
            //2.3 修改错误标注符号
            //3
            //3.1 检测是否有关键字前后句段混乱
            //3.2 检测是否有关键字 格式 倒置
            //3.3 检测是否有关键字 句型 倒置
            //rerturn
            String string= "";
            for(int i= 0; i< PLSearchArray.length; i++) {
                string+= PLSearchArray[i]+ Const.SEMICOLON;
            }
            PLSearch= string;
            return this;
        }
        @Override
        public Pl_XA_C checkAndFixSystemEnvironmentErrors() {
            return this;
        }
}
```

```
package OSA.shell;
import java.io.BufferedReader;
import java.io.File;
import java.io.FileReader;
import java.io.IOException;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import MS.OP.SM.AOP.MEC.SIQ.cache.DetaDBBufferCache_M;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Spec;
import OSM.shell.P_AO_pl_XA;
import OSM.shell.P_CO_pl_XA__XCDX_Cache;
import OSM.shell.P_CO_pl_XA_XCDX_Map;
import OSM.shell.P_I_CulumnsPL_XA;
import OSM.shell.P_RelationPL_XA;
//整体 plsql 替换成 plsearch，稍后测试验证 罗瑶光 20210927
@SuppressWarnings({"unused", "unchecked"})
public class    XA_ShellQ_JoinRows_E {
    public static Object selectRowsByAttributesOfJoinCondition(Map<String, Object> object)
                throws IOException {
```

```
        if(!object.containsKey("recordRows")) {
            Map<String, Boolean> recordRows= new ConcurrentHashMap<>();
            object.put("recordRows", recordRows);
        }
        List<Map<String, Object>> output= new ArrayList<>();
        List<String[]> conditionValues= (List<String[]>) object.get("condition");
        Iterator<String[]> iterator= conditionValues.iterator();
        while(iterator.hasNext()) {
            boolean overMap= output.size()= = 0? false: true;
            String[] conditionValueArray= iterator.next();
            String type= conditionValueArray[1];
            boolean andMap= type.equalsIgnoreCase("and")?true:false;
            for(int i= 2; i< conditionValueArray.length; i++) {
                String[] sets= conditionValueArray[i].split("\\|");
                if(overMap&& andMap) {
                    P_CO_pl_XA_XCDX_Map.P_Map(sets, output, object.get("joinBaseName").toString(),
object);//1
                }else {
                    P_CO_pl_XA__XCDX_Cache.P_Cache(sets, output
                            , object.get("joinTableName").toString()
                            , object, type);//1
                }//SHELL   无  DMA
            }
        }
        return output;
    }
    public static Object selectRowsByAttributesOfJoinAggregation(Map<String, Object> object) throws
InstantiationException, IllegalAccessException, IOException {
        if(!object.containsKey("joinObj")) {
            return new ArrayList<>();
        }
        List<Map<String, Object>> obj= ((List<Map<String, Object>>)(object.get("obj")));
        List<String[]> aggregationValues= (List<String[]>) object.get("aggregation");
        Iterator<String[]> iterator= aggregationValues.iterator();
        while(iterator.hasNext()) {
            boolean overMap= obj.size()= = 0? false: true;
            String[] aggregationValueArray= iterator.next();
            String type= aggregationValueArray[1];
            boolean limitMap= type.equalsIgnoreCase("limit")?true:false;
            for(int i= 2; i < aggregationValueArray.length; i++) {
                String[] sets= aggregationValueArray[i].split("\\|");
                if(limitMap) {
                    P_AO_pl_XA.P_AggregationLimitMap(sets, obj);
                }
                //基于 sort key  前序 treeMap  之后排序功能设计
                //基于 sort key  后序 treeMap
            }
        }
        return obj;
```

```
    }
    public static Object selectRowsByAttributesOfJoinGetCulumns(Map<String, Object> object) {
        if(!object.containsKey("joinObj")) {
            return new ArrayList<>();
        }
        List<Map<String, Object>> obj= ((List<Map<String, Object>>)(object.get("joinObj")));
        List<String[]> getCulumnsValues= (List<String[]>) object.get("getCulumns");
        Iterator<String[]> iterator= getCulumnsValues.iterator();
        while(iterator.hasNext()) {
            boolean overMap= obj.size()= = 0? false: true;
            String[] getCulumnsValueArray= iterator.next();
            if(overMap) {
                P_I_CulumnsPL_XA.P_GetCulumnsMap(obj, getCulumnsValueArray);
            }
        }
        return obj;
    }
    public static Object selectRowsByAttributesOfJoinRelation(Map<String, Object> object) {
        if(!object.containsKey("obj")||!object.containsKey("joinObj")) {
            return new ArrayList<>();
        }
        Map<String,Boolean> findinNewObj= new HashMap<>();
        List<Map<String, Object>> newObj= new ArrayList<Map<String, Object>>();
        List<Map<String, Object>> obj= ((List<Map<String, Object>>)(object.get("obj")));
        List<Map<String, Object>> joinObj= ((List<Map<String, Object>>)(object.get("joinObj")));
        List<String[]> relationValues= (List<String[]>) object.get("relation");
        Iterator<String[]> iterator= relationValues.iterator();
        while(iterator.hasNext()) {
            boolean overObjMap= obj.size()= = 0? false: true;
            boolean overJoinObjMap= joinObj.size()= = 0? false: true;
            String[] getRelationValueArray= iterator.next();
            String type= getRelationValueArray[1];
            boolean andMap= type.equalsIgnoreCase("and")?true:false;
            for(int i= 2; i< getRelationValueArray.length; i++) {
                String[] sets= getRelationValueArray[i].split("\\|");
                if(overObjMap&& overJoinObjMap&&andMap && i>2) {
                    P_RelationPL_XA.P_AndMap(sets, obj, joinObj,object, newObj);
                }else {
                    P_RelationPL_XA.P_OrMap(sets, obj, joinObj, object
                            , newObj, findinNewObj);
                }
            }
        }
        return newObj;
    }
}
```

```
package OSA.shell;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Row;
```

```
//还是要变成 map，不然 命令的 key 值查询 只能 forloop， 效率减低
//罗瑶光
public class XA_ShellTable{
	public Object[] getHuaRuiJiJtableCulumns() {
		return huaRuiJiJtableCulumns;
	}
	public void setHuaRuiJiJtableCulumns(Object[] huaRuiJiJtableCulumns) {
		this.huaRuiJiJtableCulumns= huaRuiJiJtableCulumns;
	}
	public Object[][] getHuaRuiJiJtable() {
		return huaRuiJiJtable;
	}
	public void setHuaRuiJiJtable(Object[][] huaRuiJiJtable) {
		this.huaRuiJiJtable= huaRuiJiJtable;
	}
	public Object getHuaRuiJiJtableName() {
		return huaRuiJiJtableName;
	}
	public void setHuaRuiJiJtableName(Object huaRuiJiJtableName) {
		this.huaRuiJiJtableName= huaRuiJiJtableName;
	}
	public Row[] getHuaRuiJiJtableRows() {
		return huaRuiJiJtableRows;
	}
	public void setHuaRuiJiJtableRows(Row[] huaRuiJiJtableRows) {
		this.huaRuiJiJtableRows= huaRuiJiJtableRows;
	}
	public Object[] huaRuiJiJtableCulumns;
	public Object[][] huaRuiJiJtable;
	public Row[] huaRuiJiJtableRows;
	public Object huaRuiJiJtableName;
}
-----------------------------------------------------------------------------------------------------------------------------
package OSA.shell;
import java.util.HashMap;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import javax.swing.table.TableModel;
import ME.APM.VSQ.App;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Cell;
import OP.SM.AOP.MEC.SIQ.SM.reflection.Row;
//这个函数我将 txt 和 db 表文件 到 jtable 进行映射成 object[][] 表。jtable 太上层，我准备设计成 VPCS 结构，把 jtable 的 object[][]标记脱离出来，
//映射函数框架完成， 稍后开始应用， 先在 控制台做个 shell 命令输入框，然后开始修改 之前 plsql orm 对应的 searchShell 计算文件
//罗瑶光
public class XA_ShellTables{
```

```
    public static Map<String, XA_ShellTable> XA_ShellTables= new HashMap<>();
    //先把接口做足，罗瑶光 20210925
    //将表变成表映射
    public static boolean addNewXA_ShellTable(String tableName, JTable jtable) {
        //..
        TableModel defaultTableModel= jtable.getModel();
        addNewXA_ShellTable(tableName, (DefaultTableModel)defaultTableModel);
        return true;
    }
    //按 sonar 方式重复函数分离
    public static Object[] getNewXA_ShellTableSpecFromDefaultTableModel(DefaultTableModel
defaultTableModel) {
        //..
        Object[] jtableSpec= new Object[defaultTableModel.getColumnCount()];
        for(int i= 0; i< defaultTableModel.getColumnCount(); i++) {
            jtableSpec[i]= defaultTableModel.getColumnName(i);
        }
        return jtableSpec;
    }
    //按 sonar 方式重复函数分离
    public static Object[][] getNewXA_ShellTableDataFromDefaultTableModel(DefaultTableModel
defaultTableModel) {
        //..
        Object[][] jtableData= new
Object[defaultTableModel.getColumnCount()][defaultTableModel.getRowCount()];
        for(int i= 0; i< defaultTableModel.getColumnCount(); i++) {
            for(int j= 0; j< defaultTableModel.getRowCount(); j++) {
                jtableData[i][j]= defaultTableModel.getValueAt(i, j);
            }
        }
        return jtableData;
    }
    //设计个 row 的结合表 map 内存结构 用于 shell 的表头搜索。
    public static Row[] getNewXA_ShellTableRowsFromDefaultTableModel(Object[] spec, DefaultTableModel
defaultTableModel) {
        //..
        Row[] rows= new Row[defaultTableModel.getRowCount()];
        for(int i= 0; i< defaultTableModel.getColumnCount(); i++) {
            rows[i]= new Row();
            for(int j= 0; j< defaultTableModel.getRowCount(); j++) {
                Cell cell= new Cell();
                cell.I_CellValue(defaultTableModel.getValueAt(i, j));
                rows[i].putCell(""+ spec[i], cell);
            }
        }
        return rows;
    }
    //设计个 row 的结合表 map 内存结构 用于 shell 的表头搜索。
    public static Row[] getNewXA_ShellTableRowsFromDefaultTableModel(Object[] spec, Object[][] tableData) {
```

```
        //..
        Row[] rows= new Row[tableData.length];
        for(int i= 0; i< tableData.length; i++) {
            rows[i]= new Row();
            rows[i].I_Cells(new ConcurrentHashMap<String, Cell>());//init
            for(int j= 0; j< tableData[0].length; j++) {
                Cell cell= new Cell();
                cell.I_CellValue(tableData[i][j]);
                rows[i].putCell(""+ spec[j], cell);
            }
        }
        return rows;
    }
    //将表映射变成 shell 映射,接口 VPCS 多样化，稍后做新陈代谢用。
    public static boolean addNewXA_ShellTable(String tableName, DefaultTableModel defaultTableModel) {
        //..
        Object[] jtableSpec= getNewXA_ShellTableSpecFromDefaultTableModel(defaultTableModel);
        Object[][] jtableData= getNewXA_ShellTableDataFromDefaultTableModel(defaultTableModel);
        addNewXA_ShellTable(tableName, jtableData, jtableSpec);
        return true;
    }
    //将表映射变成 shell 映射,接口 VPCS 多样化，稍后做新陈代谢用。 object data 稍后准备 用 _S_ 元基替换。
    public static boolean addNewXA_ShellTableWithObjectData(String tableName, DefaultTableModel defaultTableModel
            , Object[][] defaultTableData) {
        //..
        Object[] jtableSpec= getNewXA_ShellTableSpecFromDefaultTableModel(defaultTableModel);
        addNewXA_ShellTable(tableName, defaultTableData, jtableSpec);
        return true;
    }
    //shell 映射封装
    public static boolean addNewXA_ShellTable(String tableName, Object[][] defaultTableData
            , Object[] defaultTableDataSpec) {
        //..
        XA_ShellTable XA_ShellTable= new XA_ShellTable();
        XA_ShellTable.setHuaRuiJiJtableCulumns(defaultTableDataSpec);

    XA_ShellTable.setHuaRuiJiJtableRows(getNewXA_ShellTableRowsFromDefaultTableModel(defaultTableDataSpec, defaultTableData));
        XA_ShellTable.setHuaRuiJiJtable(defaultTableData);
        XA_ShellTable.setHuaRuiJiJtableName(tableName);
        XA_ShellTables.put(tableName, XA_ShellTable);
        return true;
    }
    //Reflection map 表头方式存储
    //将表映射变成 shell 映射,接口 VPCS 多样化，稍后做新陈代谢用。 object data 稍后准备 用 _S_ 元基替换。
    public static boolean addNewXA_ShellTableWithObjectDataReflectionDBRows(String tableName,
```

```
DefaultTableModel defaultTableModel
                , Object[][] defaultTableData) {
        //..
        Object[] jtableSpec= getNewXA_ShellTableSpecFromDefaultTableModel(defaultTableModel);
        //defaultTableModel TO ROWS
        Row[] rows= getNewXA_ShellTableRowsFromDefaultTableModel(jtableSpec, defaultTableModel);
        addNewXA_ShellTableReflectionDBRows(tableName, rows, jtableSpec);
        return true;
    }
    //Reflection map  表头方式存储
    //shell 映射封装
    public static boolean addNewXA_ShellTableReflectionDBRows(String tableName, Row[] rows
                , Object[] defaultTableDataSpec ) {
        //..
        XA_ShellTable XA_ShellTable= new XA_ShellTable();
        XA_ShellTable.setHuaRuiJiJtableCulumns(defaultTableDataSpec);
        XA_ShellTable.setHuaRuiJiJtableRows(rows);
        XA_ShellTable.setHuaRuiJiJtableName(tableName);
        XA_ShellTables.put(tableName, XA_ShellTable);
        return true;
    }
    //然后所有养疗经的 jtable 表全部基于这个文件函数  进行 shell  封装。与数据库的内存映射分离。
    public static boolean addInitXA_ShellTable(App app) {
        //把养疗经的表都在这里初始化映射成  XA_ShellTables  内存先。
        addNewXA_ShellTable("西医内科", app.xynkPage.tableData_old, app.xynkPage.columnTitle);
        addNewXA_ShellTable("中医方剂", app.zynkxPage.tableData_old, app.zynkxPage.columnTitle);
        addNewXA_ShellTable("中医诊断", app.zyzdxPage.tableData_old, app.zyzdxPage.columnTitle);
        addNewXA_ShellTable("古籍经典", app.fyydPage.tableData_old, app.fyydPage.columnTitle);
        addNewXA_ShellTable("中医生殖", app.fqzPage.tableData_old, app.fqzPage.columnTitle);
        addNewXA_ShellTable("妇产科学", app.fckxPage.tableData_old, app.fckxPage.columnTitle);
        addNewXA_ShellTable("急诊科学", app.jzkxPage.tableData_old, app.jzkxPage.columnTitle);
        addNewXA_ShellTable("西医外科", app.wkxPage.tableData_old, app.wkxPage.columnTitle);
        addNewXA_ShellTable("中医外伤", app.wskxPage.tableData_old, app.wskxPage.columnTitle);
        addNewXA_ShellTable("西药手册", app.xyscPage.tableData_old, app.xyscPage.columnTitle);
        addNewXA_ShellTable("中药同源", app.tableData_old, app.columnTitle);
        addNewXA_ShellTable("哈里森", app.cecil.tableData_old, app.cecil.columnTitle);
        //上面是主页面，
        //节点添加导入的数据表页面  我稍后也会做个  扩充函数。
        return true;
    }
}
```

```
package ME.APM.VSQ.OPE.config;
import java.awt.Color;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.KeyEvent;
import java.awt.event.KeyListener;
import java.awt.event.MouseEvent;
```

```
import java.awt.event.MouseListener;
//import java.beans.Beans;
//import java.util.HashMap;
import java.util.Iterator;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import javax.swing.JCheckBox;
import javax.swing.JPanel;
import javax.swing.JScrollPane;
import javax.swing.JTextPane;
import ME.APM.VSQ.App;
import ME.APM.VSQ.HRJFrame;
import OSA.shell.XA_ShellTables;
import OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell.AddTinShellView;
import OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell.TinMap;
import OSM.shell.E_pl_XA_E;
public class ShellJPanel extends JPanel implements MouseListener, KeyListener, ActionListener{
    /**
     * 稍后进行优化成 申请版权的格式。
     * 罗瑶光
     */
    private static final long serialVersionUID= 1L;
    public JCheckBox jlabel_box[];
    public boolean[] tabNamesHook= new boolean[30];
    public boolean isConfig= true;
    public JTextPane jTextPane;
    public JTextPane outputjTextPane;
    public String plsearch;
    public Map<String, Object> output;//准备做文章流计算的内存 罗瑶光 20211008
    @SuppressWarnings("unused")
    private App appInThisClass;
    @SuppressWarnings("unused")
    private JCheckBox jlabel_peizhi_di2515;
    public ShellJPanel(App app, AddTinShellView sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ
            , TinMap topOutput, TinMap midOutput, TinMap downOutput){
        appInThisClass= app;
        jlabel_box= new JCheckBox[30];
        this.setLayout(null);
        this.setBounds(0, 0, 800, 600);
        this.setBackground(Color.BLACK);
        //copy tab
        MVQ.button.DetaButton jlabel_button= new MVQ.button.DetaButton("清空命令");
        jlabel_button.setBounds(10, 20, 100, 30);
        jlabel_button.addActionListener(new ActionListener() {
            public void actionPerformed(ActionEvent e) {
                //    tabNamesHook[0]= true;
                //    isConfig= false;
                jTextPane.setText("");
                jTextPane.updateUI();
```

```
                app.jTabbedpane.validate();
                app.validate();
            }
        });
        this.add(jlabel_button);
        MVQ.button.DetaButton jlabel_button_clear= new MVQ.button.DetaButton("清空输出");
        jlabel_button_clear.setBounds(10+1*(100+30), 20, 100, 30);
        jlabel_button_clear.addActionListener(new ActionListener() {
            @SuppressWarnings("unchecked")
            public void actionPerformed(ActionEvent e) {
                //    tabNamesHook[0]= true;
                //    isConfig= false;
                //清空的时候避免 output  重叠计算

    //sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.remove("TinShellETL");
                //if(null!= topOutput) {
                //    将原来的
                //outputout
                //tinsheletl midshell    downshell
                //     结构改为
                //outputout
                //tinsheletl
                //midshell    downshell
                try {
                    if(null!= topOutput) {
                        sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut=
topOutput.clone();
                    }
                    Map<String, Object> map
                    = (Map<String,
Object>)sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.get("TinShellETL");
                    if(null!= midOutput&& null!= map) {
                        map.put("midShell", midOutput.clone());
                    }
                    if(null!= downOutput&& null!= map) {
                        map.put("downShell", downOutput.clone());
                    }
                    if(null!= map) {

    sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.put("TinShellETL", map);
                    }
                } catch (CloneNotSupportedException e1) {
                    // TODO Auto-generated catch block
                    e1.printStackTrace();
                }
                outputjTextPane.setText("\"正在使用  养疗经  1.8.8.8.0 Tin Shell 系统(8.8.8.0) . . .\"");
                outputjTextPane.updateUI();
                //     app.jTabbedpane.validate();
                app.validate();
```

```
        }
});
this.add(jlabel_button_clear);
MVQ.button.DetaButton jlabel_init_button= new MVQ.button.DetaButton("初始脚本");
jlabel_init_button.setBounds(10+2*(100+30), 20, 100, 30);
jlabel_init_button.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
                if(null!= app) {
                        app.jTabbedpane.validate();
                        app.validate();
                        //检测脚本综合分类、
                        //分类执行脚本编译机
                        //
                        if(null!= HRJFrame.NE) {
                                XA_ShellTables.addInitXA_ShellTable(HRJFrame.NE);
                        }
                        outputjTextPane.setText("已经初始脚本数据。。");
                        outputjTextPane.updateUI();
                        app.jTabbedpane.validate();
                        app.validate();
                }
        }
});
this.add(jlabel_init_button);
MVQ.button.DetaButton jlabel_debug_button= new MVQ.button.DetaButton("调试脚本");
jlabel_debug_button.setBounds(10+3*(100+30), 20, 100, 30);
jlabel_debug_button.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
                if(null!= app) {
                        app.jTabbedpane.validate();
                        app.validate();
                        //检测脚本综合分类、
                        //分类执行脚本编译机
                }
        }
});
this.add(jlabel_debug_button);
MVQ.button.DetaButton jlabel_flush_button= new MVQ.button.DetaButton("执行脚本");
jlabel_flush_button.setBounds(10+ 4*(100+ 30), 20, 100, 30);
jlabel_flush_button.addActionListener(new ActionListener() {
        @SuppressWarnings("unchecked")
        public void actionPerformed(ActionEvent e) {
                if(null!= app) {
                        app.jTabbedpane.validate();
                        app.validate();
                        //检测脚本综合分类、
                        //分类执行脚本编译机
                        //
                        //执行 shell
```

```
                    String plSearch= jTextPane.getText();
                    try {

    if(!sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.containsKey("TinShellETL")) {

    sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.put("TinShellETL", new
ConcurrentHashMap<String, Object>());
                        }
                        output= E_pl_XA_E.E_PLSearch(plSearch.replace("\r\n", "")
                                , false, (Map<String,
Object>)sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.get("TinShellETL"));
                        //开始涉及 PLETL，于是 上中下都要，就把 outputOut 完整代入 VPCS 函数。
                        //更新
                        //计算完后去除 output 的 mid down 部分
                        if(output.containsKey("midShell")) {
                            output.remove("midShell");
                        }
                        if(output.containsKey("downShell")) {
                            output.remove("downShell");
                        }

    sQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.put("TinShellETL", output);
                    } catch (Exception e1) {
                        // TODO Auto-generated catch block
                        e1.printStackTrace();
                    }
                    //输出 检测
                    outputjTextPane.setContentType("text/html");
                    System.out.println("end:"+output.size());
                    Iterator<String> iterator= output.keySet().iterator();
                    StringBuilder stringBuilder= new StringBuilder();
                    int max= 50;
                    int i= 0;
                    while(iterator.hasNext()){
                        if(i++> max) {
                            break;
                        }
                        String string= iterator.next();
                        System.out.println(output.get(string));
                        stringBuilder.append("/r/n"+output.get(string).toString());
                    }
                    //稍后涉及分页 20211001
                    stringBuilder= stringBuilder.length()>300000? stringBuilder.delete(300000,
stringBuilder.length()):stringBuilder;
                    outputjTextPane.setText(stringBuilder.toString());
                    outputjTextPane.validate();
                }
            }
        });
```

```
this.add(jlabel_flush_button);
jTextPane= new JTextPane();
JScrollPane jsp_jTextPane= new JScrollPane(jTextPane);
jsp_jTextPane.setBounds(10+ 0* 150, 20+ 1* 15+ 30, 765, 220);
//    jTextPane.setText("tableName:中药同源:select;\r\n"
//    + "condition:or:功效|contains|清热:功效|contains|解毒;\r\n"
//    + "condition:and:性味|!contains|热:脉络|contains|肺;\r\n"
//    + "condition:and:风险规避|fliter|毒:风险规避|fliter|孕;\r\n"
//    + "getCulumns:功效:风险规避|as|风险:脉络:性味:中药名称|as|药名;\r\n"
//    + "aggregation:风险|color|yellow;\r\n"
//    + "aggregation:药名|color|red;\r\n"
//    + "aggregation:功效|parser|pos;\r\n"
//    + "aggregation:0|limit|20;\r\n"
//    + "aggregation:药名|sortString|increment;");
//    jTextPane.setText("表名:中药同源:选择;\r\n"
//    + "条件:或:功效|包含|清热:功效|包含|解毒;\r\n"
//    + "条件:和:性味|不包含|热:脉络|包含|肺;\r\n"
//    + "条件:和:风险规避|过滤|毒:风险规避|过滤|孕;\r\n"
//    + "获取列名:功效:风险规避|改名|风险:脉络:性味:中药名称|改名|药名;\r\n"
//    + "操作:风险|颜色|黄色;\r\n"
//    + "操作:药名|颜色|红色;\r\n"
//    + "操作:功效|分词|词性;\r\n"
//    + "操作:0|行至|20;\r\n"
//    + "操作:药名|字符排序|从小到大;");
//稍后改名
//    jTextPane.setText("获取表名:中药同源:进行选择;
//    条件为:和:功效|精度搜索|风热咳嗽|0;
//    条件为:和:中药名称|字符串长度大于|3;
//    条件为:或:功效|包含|清热解毒:功效|包含|利尿;
//    条件为:和:性味|不包含|温:脉络|包含|肺;
//    条件为:和:风险规避|过滤掉|毒:风险规避|过滤掉|孕;
//    获取表列名:功效:风险规避|改名为|风险:脉络:性味:中药名称|改名为|药名;
//    操作:0|行至|20;
//    操作:风险|颜色标记为|黄色;
//    操作:药名|颜色标记为|红色;
//    操作:功效|进行分词|DNN;
//    + "操作:药名|进行字符排序|从小到大;");
//结果出西瓜
jTextPane.setText("获取表名:中医诊断:进行选择;\r\n"
            + "条件为:和:笔记|包含|发热:笔记|包含|身重;\r\n"
            + "获取表列名:ID:病症;\r\n"
            + "操作:0|行至|30;\r\n"
            + "操作:病症|进行分词|词性显色;\r\n"
            + "操作:ID|进行数字排序|从小到大;"
            + "操作:ID|颜色标记为|红色;");
//    + "操作:药名|进行字符排序|从小到大;");
//   + "PLETL:中节点|进行表格合并|主码为|ID|模式为|新增列;"
//   下面这个五个命令 rest 命令  首先符号冲突，
//   + "定义:变量 1|://localhost.....;" (正在设计)//稍后。
```

```
        //    + "PLTCP:病症|进行 WEB 请求|接口为|localhost|端口为|8000|操作为|分词;"
        //    + "PLTCP:病症|进行 WEB 请求|接口为|localhost|端口为|8000|操作为|DNN;"
        //    + "PLTCP:病症|进行 WEB 请求|接口为|localhost|端口为|8000|操作为|POS;"
        //    + "PLETL:该节点|进行输出|模式为|打印;" (正在设计)
        //    + "PLETL:该节点|进行保存|模式为|文件|路径为|F 盘|巴拉/巴拉小魔仙/。。。。.lyg;" (正在设计)
        //    + "PLETL:文档|进行执行|时间为|时间戳|路径为|D 盘|巴拉巴拉小魔仙/。。。。.etl;" (正在设计)
        this.add(jsp_jTextPane);
        outputjTextPane= new JTextPane();
        JScrollPane jsp_outputjTextPane= new JScrollPane(outputjTextPane);
        jsp_outputjTextPane.setBounds(10 + 0* 150, 20+ 1* 15+ 30+ 250, 765, 350);
        outputjTextPane.setText("\"正在使用  养疗经  1.8.8.8.0 Tin Shell 系统(8.8.8.0) . . .\"");
        this.add(jsp_outputjTextPane);
        //jTextPane.setText("正在使用  养疗经  1.8.8.8.0 Tin Shell 系统(8.8.8.0) . . .");
    }
    @Override
    public void actionPerformed(ActionEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void keyPressed(KeyEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void keyReleased(KeyEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void keyTyped(KeyEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void mouseClicked(MouseEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void mouseEntered(MouseEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void mouseExited(MouseEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void mousePressed(MouseEvent arg0) {
        // TODO Auto-generated method stub
    }
    @Override
    public void mouseReleased(MouseEvent arg0) {
        // TODO Auto-generated method stub
```

```
    }
}
-----------------------------------------------------------------------------------------------------------------------------
package OSI.OPE.SI.MCI.OEI.OVU.PQE.extOSGI;
import OSI.OPE.OVU.MVU.OVU.PQE.nodeEdit.LinkNode;
import OSI.OPE.OVU.MVU.OVU.PQE.nodeEdit.Sort;
public class OSGI_chansfer {
    //增加 tin shell output map，  罗瑶光 20211008
    public OSGI_chansfer(LinkNode node, LinkNode first){
        first= Sort.sort(first);
        LinkNode linkNode= new LinkNode();
        linkNode= first;
        //节点只有上中下 3 个 input，于是优化成  max= 3；
        int max= 0;
        while(null!= linkNode){
            if(node.tBeconnect
                    //&&node.tBeconnectID= = linkNode.ID
                    &&node.tBeconnetName.equals(linkNode.name)
                    && (node.tBeconnectPrimaryKey.equalsIgnoreCase(linkNode.primaryKey))){
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.toptablein
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.tableout;
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.topgin
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.gout;
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.topOutput
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut;
                //return; //  涉及多个节点测试
                max++ ;
            }
            if(node.mBeconnect
                    //&&node.mBeconnectID= = linkNode.ID
                    && node.mBeconnetName.equals(linkNode.name)
                    && (node.mBeconnectPrimaryKey.equalsIgnoreCase(linkNode.primaryKey))){
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.midtablein
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.tableout;
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.midgin
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.gout;
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.midOutput
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut;
                //return;
                max++ ;
            }
            if(node.dBeconnect
                    //&&node.dBeconnectID= = linkNode.ID
                    && node.dBeconnetName.equals(linkNode.name)
                    && (node.dBeconnectPrimaryKey.equalsIgnoreCase(linkNode.primaryKey))){
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.downtablein
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.tableout;
                node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.downgin
                = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.gout;
```

```
                    node.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_OPE_OPC_ECI.downOutput
                    = linkNode.thisFace.SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut;
                    //return;
                    max++ ;
                }
                if(null= = linkNode.next|| 3= = max){//以后节点类型多了就重新设计。20211011 罗瑶光
                    break;
                }
                linkNode= linkNode.next;
            }
        }
}
```

注册表

```
package OSI.OPE.SI.MCI.OEI.OVU.PQE.extOSGI;
import java.io.IOException;
import java.util.Map;
import javax.swing.JTextPane;
import ME.APM.VSQ.App;
import OCI.ME.analysis.C.A;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.fFT.FFTFilterNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.fft2DFilter.Ft2DFilterInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.freqCount.FreqCountNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.guassianWav2DFilter.GuassianWav2DFilterNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.houghWavFilter.HoughWavFilterNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.laplacianFilter.LaplacianFilterNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.logFFT.LogFFTInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.logFFTcount.LogFFTcountInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.lygFilter.LygFilterNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.lygSlaveFilter.LygSlaveFilterInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.maxMiniFilter.MaxMiniFilterNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.medianFilter.MedianFilterNodeInterface;
import OSI.OEU.OSU.MSQ.OSU.AVU.OSQ.wavRead.WavReadNodeInterface;
import OSI.OPE.OEQ.MCQ.OVU.PQE.osgi.*;
import OSI.OSU.MSQ.ASU.OSU.PSU.MSU.AVQ.ASQ.OPE.xlsReaderNode.XlsReaderNodeInterface;
import OSI.OSU.PSI.OSU.MSQ.VQ.SQ.lygWrite.LYGWriteNodeInterface;
import OSI.OSU.PSU.OSU.MSQ.VQ.SQ.aviToLyg.AVItoLYGNodeInterface;
import OSI.OSU.PSU.OSU.MSQ.VQ.SQ.movieTransfer.MovieTransferNodeInterface;
import
OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell.AddTinShellNodeASQ_OCQ
_OSI_PCI_PCU_MCI_MCU_MSI;
import
OSI.OSU.SI.OVI.OSI.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.addPGSearchPage.AddPGSearchPage
NodeASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI;
//import
OSI.OSU.SI.OVI.OSI.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.addZNSZPage.AddZNSZPageNodeAS
Q_OCQ_OSI_PCI_PCU_MCI_MCU_MSI;
import OSI.OSU.VSQ.OSU.MSQ.VQ.SQ.lygPlayer.LYGPlayerNodeInterface;
import OSI.OSU.VSQ.OSU.MSQ.VQ.SQ.lygRead.LYGReadNodeInterface;
```

```
import OSI.OVI.OSU.MSQ.MV.SQ.imageRead.ImageReadNodeInterface;
import OSI.OVQ.OSU.MSQ.MV.SQ.findColorB.FindColorBInterface;
import OSI.OVQ.OSU.MSQ.MV.SQ.findColorG.FindColorGInterface;
import OSI.OVQ.OSU.MSQ.MV.SQ.findColorR.FindColorRInterface;
import OSI.OVQ.OSU.MSQ.MV.SQ.show3D.Show3DInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.embossFilter.EmbossFilterInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.grayFilter.GrayFilterNodeInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.guassianFilter.GuassianFilterInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.houghTransform.HoughTransformInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.imageStrech.ImageStrechNodeInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.laplacianFilter.LaplacianFilterInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.medianImageFilter.MedianImageNodeInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.morphologyFilter.MorphologyFilterInterface;
import OSI.OVU.OSU.MSQ.MV.SQ.sobelFilter.SobelFilterNodeInterface;
import OSI.OVU.OSU.MSQ.OSU.AVU.OSQ.butterworthFilter.ButterworthFilterNodeInterface;
import OSI.PEQ.OSU.MSQ.OSU.AVU.OSQ.wavePlay.WavePlayNodeInterface;
public class OSI_OSU_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI_register{
    JTextPane text;
    Object[][] tableData_old;
    public App u;
    public A _A;
    public Map<String, String> pos;
    public OSI_OSU_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI_register(Object[][] tableData_old, JTextPane
text, App u
            , A _A, Map<String, String> pos){
        this.text= text;
        this.tableData_old= tableData_old;
        this.u= u;
        this._A= _A;
        this.pos= pos;
    }
    public NodeOSGI Rigester(NodeOSGI first, LinkOSGI link) throws IOException{
        //注册
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI XlsReadernode= new
XlsReaderNodeInterface();
        first= link.addNode(first, XlsReadernode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI imageReadNode= new
ImageReadNodeInterface();
        first= link.addNode(first, imageReadNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI imageStrechNode= new
ImageStrechNodeInterface();
        first= link.addNode(first, imageStrechNode);
        //    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI arffTransferNode= new
arffTransferNodeInterface();
        //    first= link.addNode(first, arffTransferNode);
        //    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI WekaPilot2DNode= new
WekaPilot2DNodeInterface();
        //    first= link.addNode(first, WekaPilot2DNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI MedianImageNode= new
```

```
MedianImageNodeInterface();
        first= link.addNode(first, MedianImageNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI GrayFilterNode= new
GrayFilterNodeInterface();
        first= link.addNode(first, GrayFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI GuassianFilterNode= new
GuassianFilterInterface();
        first= link.addNode(first,     GuassianFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI FindColorRNode= new
FindColorRInterface();
        first= link.addNode(first,     FindColorRNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI FindColorGNode= new
FindColorGInterface();
        first= link.addNode(first,     FindColorGNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI FindColorBNode= new
FindColorBInterface();
        first= link.addNode(first,     FindColorBNode);

        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI SobelFilterNode= new
SobelFilterNodeInterface();
        first= link.addNode(first,     SobelFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI EmbossFilterNode= new
EmbossFilterInterface();
        first= link.addNode(first,     EmbossFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI LaplacianFilterNode= new
LaplacianFilterInterface();
        first= link.addNode(first,     LaplacianFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI HoughTransformNode= new
HoughTransformInterface();
        first= link.addNode(first, HoughTransformNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI WavReadNode= new
WavReadNodeInterface();
        first= link.addNode(first, WavReadNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI MedianFilterNode= new
MedianFilterNodeInterface();
        first= link.addNode(first, MedianFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI ButterworthFilterNode= new
ButterworthFilterNodeInterface();
        first= link.addNode(first, ButterworthFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI LaplacianWaveFilterNode= new
LaplacianFilterNodeInterface();
        first= link.addNode(first, LaplacianWaveFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI HoughWavFilterNode= new
HoughWavFilterNodeInterface();
        first= link.addNode(first, HoughWavFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI GuassianWav2DFilterNode= new
GuassianWav2DFilterNodeInterface();
        first= link.addNode(first, GuassianWav2DFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI MaxMiniFilterNode= new
```

```
MaxMiniFilterNodeInterface();
        first= link.addNode(first, MaxMiniFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI wavePlayNode= new
WavePlayNodeInterface();
        first= link.addNode(first, wavePlayNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI Show3DNode= new Show3DInterface();
        first= link.addNode(first, Show3DNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI MorphologyFilter= new
MorphologyFilterInterface();
        first= link.addNode(first, MorphologyFilter);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI LYGReadNode= new
LYGReadNodeInterface();
        first= link.addNode(first, LYGReadNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI LYGWriteNode= new
LYGWriteNodeInterface();
        first= link.addNode(first, LYGWriteNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI MovieTransferNode= new
MovieTransferNodeInterface();
        first= link.addNode(first, MovieTransferNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI AVItoImagesNode= new
AVItoLYGNodeInterface();
        first= link.addNode(first, AVItoImagesNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI LYGPlayerNode= new
LYGPlayerNodeInterface();
        first= link.addNode(first, LYGPlayerNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI FFTFilterNode= new
FFTFilterNodeInterface();
        first= link.addNode(first, FFTFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI freqCountNode= new
FreqCountNodeInterface();
        first= link.addNode(first, freqCountNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI lygFilterNode= new
LygFilterNodeInterface();
        first= link.addNode(first, lygFilterNode);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI lygFilterComp= new
Ft2DFilterInterface();
        first= link.addNode(first, lygFilterComp);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI lygSlave= new LygSlaveFilterInterface();
        first= link.addNode(first, lygSlave);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI logFFT= new LogFFTInterface();
        first= link.addNode(first, logFFT);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI logFFTcount= new
LogFFTcountInterface();
        first= link.addNode(first, logFFTcount);
//    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI dNA3DShow= new
dNA3DShowNodeASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI();
//    first= link.addNode(first, dNA3DShow);
//
        //医学图片页添加
```

```
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI searchPG= new
AddPGSearchPageNodeASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI();
        searchPG.pageName= "图片搜索";
        //first= link.addNode(first, searchPG);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
        = (OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI) searchPG;

    u.gUISample.nodeReflection.put(OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.SQ_OSU_M
SQ_OSU_AVQ_ASQ_SQ_VPC_PCS, null);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.register(u.gUISample.tableData_old,
u.gUISample.text
                , u.gUISample.u, u.gUISample._A, u.gUISample.pos);
        try {
            OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.IMP_PSU();
        } catch (IOException e1) {
            e1.printStackTrace();
        }
//      u.gUISample.nodeView.first= u.gUISample.nodeView.link.addNode(u.gUISample.nodeView.first
//      , OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI);
        first= link.addNode(first, OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI);
        u.searchList.add(searchPG);

//add extp//////
//      //声诊断,该接口已经 2 年停止开源研发。
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI soundCheck= new
AddZNSZPageNodeASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI();
//      soundCheck.pageName= "智能声诊";
//      //first= link.addNode(first, searchPG);
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
//      = (OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI) soundCheck;
//
    u.gUISample.nodeReflection.put(oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.SQ_OSU_MS
Q_OSU_AVQ_ASQ_SQ_VPC_PCS, null);
//      oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.register(u.gUISample.tableData_old,
u.gUISample.text
//      , u.gUISample.u, u.gUISample._A, u.gUISample.pos);
//      try {
//oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.IMP_PSU();
//      } catch (IOException e1) {
//e1.printStackTrace();
//      }
////    u.gUISample.nodeView.first= u.gUISample.nodeView.link.addNode(u.gUISample.nodeView.first
////    , OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI);
//      first= link.addNode(first, oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI);
//      u.searchList.add(soundCheck);
```

```
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI tinShell= new
AddTinShellNodeASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI();
        tinShell.pageName= "Tin 语言";
        //first= link.addNode(first, searchPG);
        OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
        = (OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI) tinShell;

    u.gUISample.nodeReflection.put(oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.SQ_OSU_MS
Q_OSU_AVQ_ASQ_SQ_VPC_PCS, null);
        oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.register(u.gUISample.tableData_old,
u.gUISample.text
                , u.gUISample.u, u.gUISample._A, u.gUISample.pos);
        try {
            oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI.IMP_PSU();
        } catch (IOException e1) {
            e1.printStackTrace();
        }
//      u.gUISample.nodeView.first= u.gUISample.nodeView.link.addNode(u.gUISample.nodeView.first
//      , OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI);
        first= link.addNode(first, oSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI);
        u.searchList.add(tinShell);
        //ddPGSearchPageNodeASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
////////////////
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI editPanelReader= new
EditPanelReaderNodeInterface(this.text);
//      first= link.addNode(first, editPanelReader);
//
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI editPanelReaderH= new
EditPanelReaderHNodeInterface(this.text);
//      first= link.addNode(first, editPanelReaderH);
//
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI addChuFangAttributeH= new
AddChuFangAttributeHNodeInterface(this.tableData_old
//      , this.text);
//      first= link.addNode(first,addChuFangAttributeH);
//
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI filterChuFangJinJiAttributeH=
//      new filterChuFangJinJiAttributeHNodeInterface(this.tableData_old, this.text);
//      first= link.addNode(first, filterChuFangJinJiAttributeH);
//
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI chuFangWuXingShowHInterface=
//      new ChuFangWuXingShowHNodeInterface(this.tableData_old, this.text);
//      first= link.addNode(first,chuFangWuXingShowHInterface);
//      //扫描 jar、、添加 jar
//      OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI filterChuFangXingWeiKeyWordsAttributeH=
//      new filterChuFangXingWeiKeyWordsAttributeHNodeInterface(this.tableData_old, this.text);
//      first= link.addNode(first, filterChuFangXingWeiKeyWordsAttributeH);
//
```

```
//    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI filterChuFangJinJiKeyWordsAttributeH=
//    new filterChuFangJinJiKeyWordsAttributeHNodeInterface(this.tableData_old, this.text);
//    first= link.addNode(first, filterChuFangJinJiKeyWordsAttributeH);
//
//    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI updateToEditPane=
//    new updateToEditPaneNodeInterface(this.tableData_old, this.text);
//    first= link.addNode(first, updateToEditPane);
//
//    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI readNodeInterface=
//    new ReadNodeInterface(this.tableData_old, this.text);
//    first= link.addNode(first, readNodeInterface);
//    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI DNN3DInterface=
//    new ChuFangDNN3DShowNodeInterface(this.tableData_old, this.text, this.u, this._A, this.pos);
//    first= link.addNode(first, DNN3DInterface);
//    try {
////1 扫描
////1.1 设计一个文件夹
////扫描文件夹下面资源包录入
//String jarCategoryLink= "";
//FileDialog filedialog= new FileDialog(new Frame(), StableData.ATTENSION_LOAD_HISTORY
//            , FileDialog.LOAD);
//filedialog.setFilenameFilter(new TXTFilter(StableData.FILE_FORMAT_ETL));
//filedialog.setVisible(true);
//jarCategoryLink= filedialog.getDirectory();
////System.out.println(jarCategoryLink);
//if(null= = jarCategoryLink|| jarCategoryLink.isEmpty()|| jarCategoryLink.contains
//            (StableData.FILE_FORMAT_JAR)) {
//    System.out.println(StableData.ATTENSION_RECHOICE);
//    return first;
//}
//File file= new File(jarCategoryLink);
//if(file.isFile()) {
//    System.out.println(StableData.ATTENSION_FILE_CHOICE);
//    return first;
//}
//File[] files= file.listFiles();
//for(int i= 0; i< files.length; i++) {
//    @SuppressWarnings({ "deprecation", "resource" })
//    URLClassLoader loader= new URLClassLoader(new URL[]{ files[i].toURL() });
//    String filename= files[i].getName().replace(StableData.FILE_FORMAT_JAR, StableData.STRING_EMPTY);
//    String[] columns= filename.split("\\.");
//    //如下注释 2 行代码  refer https://www.cnblogs.com/chinaxin/p/3678442.html 这小伙子以后有前途。哈哈
//    //Class<?> myclass= loader.loadClass("hand.java.loadjar.TestClass");
//    //Gene new object
//    //Object myobject= myclass.newInstance();
//    Class<?> myclass= null;
//    try {
//            myclass= loader.loadClass(filename+ "."+ columns[columns.length- 1]
//                        + StableData.NODE_NODE_INTERFACE);
```

```
//    } catch (ClassNotFoundException e) {
//          // TODO Auto-generated catch block
//          e.printStackTrace();
//    }
//    Object myobject= null;
//    try {
//          myobject= myclass.newInstance();
//    } catch (InstantiationException | IllegalAccessException e) {
//          // TODO Auto-generated catch block
//          e.printStackTrace();
//    }
//    //我准备之后设计成病毒式热插拔，因为绕过虚拟机的思想涉及情报学特工和计算机病毒领域
//    //，害怕国家相关安全体系管控，暂时不研发。
//    OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI
OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI=
(OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI) myobject;
//    first= link.addNode(first, OSU_AVQ_ASQ_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI);
//}
//    }catch(Exception e) {
//
//    }
          return first;
    }
}
```

```
package OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell;
import java.awt.ScrollPane;
import java.io.IOException;
//import java.util.HashMap;
//import java.util.Iterator;
//import java.util.concurrent.ConcurrentHashMap;
import java.util.Map;
import javax.swing.JFrame;
import ME.APM.VSQ.HRJFrame;
import ME.APM.VSQ.OPE.config.ShellJPanel;
import OSI.OPE.OEQ.MCQ.OVU.PQE.osgi.*;
//midshell downshell, PLETL 的时代开始了。稍后增加 pletl 的 mid down  计算命令集合。
public class    I_TinShellRun extends OSU_AVQ_ASQ_OPE_OPC_ECI{
    private static final long serialVersionUID= 1L;
    public int value= 0;
    public String filepath;
    public    I_TinShellRun() throws IOException{
          super();
    }
    //把 SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut 的地址位剥离出来，避免计算
重叠，
    //罗瑶光 20211009
    @SuppressWarnings("unchecked")
    public void run(final AddTinShellView SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ)
```

```
throws IOException, CloneNotSupportedException{
        SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.tableout= this.toptablein;
        //SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut= this.topOutput;
        //if(null= = SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut) {
        //      SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut= new HashMap<String,
Object>();
        //}
        SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut= new TinMap();
//    if(null!= this.topOutput) {//我先设置成 top 为 mainshell mid 和 down 为附加 shell，这样就可以设计  附加 shell
的命令了。
//SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut= this.topOutput.clone();
//    }
//    if(null!= this.midOutput) {
//SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.put("midShell",
this.midOutput.clone());
//    }
//    if(null!= this.downOutput) {
//SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.put("downShell",
this.downOutput.clone());
//    }
        if(null!= topOutput) {
            SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut= topOutput.clone();
        }
        Map<String, Object> map= (Map<String,
Object>)SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.get("TinShellETL");
        if(null!= midOutput&& null!= map) {
            map.put("midShell", midOutput.clone());
        }
        if(null!= downOutput&& null!= map) {
            map.put("downShell", downOutput.clone());
        }
        if(null!= map) {
            SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.put("TinShellETL", map);
        }

//    if(null!= this.topOutput) {
//Iterator<String> iterator= this.topOutput.keySet().iterator();
//while(iterator.hasNext()) {
//    String string= iterator.next();
//    ConcurrentHashMap<String, Object> newMap= new ConcurrentHashMap<>();
//    ConcurrentHashMap<String, Object> map= (ConcurrentHashMap<String, Object>)this.topOutput.get(string);
//    Iterator<String> iterators= map.keySet().iterator();
//    while(iterators.hasNext()) {
//        String strings= iterators.next();
//        newMap.put(strings, map.get(strings));
//    }
//    SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut.put(string, newMap);
//}
//    }
```

```
        //先设计一种 只有上链接的模式，以后在设计三种的
        JFrame jframe= new JFrame();
        //把 SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ.outputOut 的地址位剥离出来，避免计算重叠，
        ShellJPanel ShellJPanel= new ShellJPanel(HRJFrame.NE, SQ_OSU_MSQ_OSU_AVQ_ASQ_AVQ_ASQ_OVQ_OSQ_VSQ
                , null= = this.topOutput? new TinMap(): this.topOutput, this.midOutput, this.downOutput);
        //之前统一节点界面是 300*300，因为这个改成 800*750，不太好就干脆分开来
        ScrollPane scrollPane= new ScrollPane();
        scrollPane.setSize(810, 760);
        scrollPane.add(ShellJPanel);
        jframe.setLayout(null);
        jframe.add(scrollPane);
        jframe.setSize(810,760);
        jframe.setIconImage(HRJFrame.NE.logo.getImage());
        jframe.setResizable(false);
        jframe.setVisible(true);
    }
}
-----------------------------------------------------------------------------------------------------------------------------------
package OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.concurrent.ConcurrentHashMap;
public class TinMap extends ConcurrentHashMap<String, Object> implements Cloneable{
    /**
     *因为 map 下面的指令集比较复杂，先用一个 clone 代替，如果不行就再完整设计一个 copy 函数
     *测试了下不能复制，不知道是不是这个 jdk 版本问题，于是重新设计 map copy clone 函数。
     *本可以用 jsonString，什么都解决了， 因为涉及著作权申请，能不用第三方就不用。
     *罗瑶光 20211009
     */
    private static final long serialVersionUID= 1L;
    @SuppressWarnings({ "unchecked", "rawtypes" })
    @Override
    public TinMap clone() throws CloneNotSupportedException {
        TinMap newTinMap= new TinMap();
        if(null!= this) {
            Iterator<String> iterator= this.keySet().iterator();
            while(iterator.hasNext()) {
                String string= iterator.next();
                ConcurrentHashMap<String, Object> newMap= new ConcurrentHashMap<>();
                ConcurrentHashMap<String, Object> map= (ConcurrentHashMap<String, Object>)this.get(string);
                Iterator<String> iterators= map.keySet().iterator();
                while(iterators.hasNext()) {
                    String strings= iterators.next();
                    if(strings.contains("obj")) {
                        //arraylist<hashmap>
```

```
    ArrayList<HashMap<String, HashMap<String,    HashMap<String, String>>>> arrayListnew= new ArrayList();
    ArrayList<HashMap<String, HashMap<String,    HashMap<String, String>>>> arrayList=
(ArrayList)map.get(strings);
                                //
    Iterator<HashMap<String, HashMap<String,    HashMap<String, String>>>> iteratormap= arrayList.iterator();
                                while(iteratormap.hasNext()) {
                        HashMap<String, HashMap<String,    HashMap<String, String>>> hashmapNew= new
HashMap<>();
                        HashMap<String, HashMap<String,    HashMap<String, String>>> hashmap= iteratormap.next();
                                    Iterator<String> iteratormapIterator= hashmap.keySet().iterator();
                                    while(iteratormapIterator.hasNext()) {
                                        String iteratormapIteratorString= iteratormapIterator.next();
                                        HashMap<String, HashMap<String, String>> hashMapsNew= new
HashMap<>();
                    HashMap<String, HashMap<String, String>> hashMaps= hashmap.get(iteratormapIteratorString);
                                        Iterator<String> iteratormapIteratorHashMaps= hashMaps.keySet().iterator();
                                        while(iteratormapIteratorHashMaps.hasNext()) {
                                String iteratormapIteratorHashMapsString= iteratormapIteratorHashMaps.next();
                                HashMap<String, String> iteratormapIteratorHashMapsStringHashMapsNew= new
HashMap<>();
                                        HashMap<String, String> iteratormapIteratorHashMapsStringHashMaps=
                                    hashMaps.get(iteratormapIteratorHashMapsString);
                     Iterator<String> iteratormapIteratorHashMapsStringHashMapsIterator=
                         iteratormapIteratorHashMapsStringHashMaps.keySet().iterator();
                         while(iteratormapIteratorHashMapsStringHashMapsIterator.hasNext()) {
                             String stringCell= iteratormapIteratorHashMapsStringHashMapsIterator.next();

    iteratormapIteratorHashMapsStringHashMapsNew.put(stringCell,iteratormapIteratorHashMapsStringHashMaps.
get(stringCell).toString());
                                            }
                                        hashMapsNew.put(iteratormapIteratorHashMapsString,
iteratormapIteratorHashMapsStringHashMapsNew);
                                        }
                                        hashmapNew.put(iteratormapIteratorString, hashMapsNew);
                                    }
                                    arrayListnew.add(hashmapNew);
                                }
                                newMap.put(strings, arrayListnew);
                                //object row
                            }else if(strings.contains("spec")) {
                                List<String> list= new ArrayList<>();
                                List<String> object= (ArrayList)map.get(strings);
                                Iterator<String> iteratorString= object.iterator();
                                while(iteratorString.hasNext()) {
                                    list.add(iteratorString.next().toString());
                                }
                                newMap.put(strings, list);
                                //array
                            }else if(strings.contains("hashmap")) {
```

```
                        //map
                        //newMap.put(strings, map.get(strings));
                    }else {
                        //字符串
                        newMap.put(strings, map.get(strings).toString());
                    }
//          Object object= map.get(strings);
                    //          Iterator<String> iteratorss= maps.keySet().iterator();
                    //          while(iteratorss.hasNext()) {
                    //              String stringss= iteratorss.next();
                    //              //array
                    //              Object object= maps.get(stringss);
                    ////              if(object.getType().equals("ArrayList")) {
                    ////
                    ////              }
                    //              //map
                    //
                    //              //object
                    //          }
                    //newMap.put(strings, map.get(strings));
                }
                newTinMap.put(string, newMap);
            }
        }
        return newTinMap;
    }
}
```

```
package ME.APM.VSQ;
import java.awt.Container;
import java.awt.Dimension;
import java.awt.ScrollPane;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.KeyEvent;
import java.awt.event.KeyListener;
import java.awt.event.MouseEvent;
import java.awt.event.MouseListener;
import javax.swing.ImageIcon;
import javax.swing.JTabbedPane;
import ME.APM.VSQ.OPE.config.SectionJPanel;
import ME.APM.VSQ.OPE.config.ShellJPanel;
import OPM.ESU.admin.PLSQLSectionPanel;
import OPM.ESU.admin.YouBiaoSectionPanel;
import OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell.AddTinShellView;
import OSI.OSU.SI.ASQ.OSD.AVI.AEI.ACI.ASI.OVI.OEI.OCI.OSI.PVI.PEI.PCI.PSI.tinShell.TinMap;
import OPM.ESU.admin.VPCSRestPanel;
import SVQ.stable.StableFile;
public class App_CM extends ScrollPane implements MouseListener, KeyListener, ActionListener{
```

```
    private static final long serialVersionUID= 1L;
    public boolean isConfig= true;
    public SectionJPanel SectionJPanel;
    public PLSQLSectionPanel pLSQLJPanel;
    public YouBiaoSectionPanel youBiaoJPanel;
    public ShellJPanel pLShellJPanel;
    public VPCSRestPanel vPCSRestPanel;
    public void IV_(App app){
        StableFile.DNA_PDN.put(this.getClass().getCanonicalName(), true);
        JTabbedPane jTabbedpane= new JTabbedPane();
        Container SectionJPanelContainer= new Container();
        SectionJPanel= new SectionJPanel(app);
        SectionJPanel.setLayout(null);
        SectionJPanel.setBounds(0, 0, 800, 750);
        SectionJPanelContainer.add(SectionJPanel);
        jTabbedpane.addTab("总启动专科与系统配置版面", new ImageIcon(), SectionJPanelContainer
, "总启动专科与系统配置版面");
        jTabbedpane.setMnemonicAt(0, KeyEvent.VK_0);
        Container pLSQLJPanelContainer= new Container();
        pLSQLJPanel= new PLSQLSectionPanel(app);
        pLSQLJPanel.setLayout(null);
        pLSQLJPanel.setBounds(0, 0, 800, 750);
        pLSQLJPanelContainer.add(pLSQLJPanel);
        jTabbedpane.addTab("德塔 PLSQL 控制台", new ImageIcon(), pLSQLJPanelContainer
, "德塔 PLSQL 控制台");
        jTabbedpane.setMnemonicAt(1, KeyEvent.VK_1);
        Container pLShellJPanelContainer= new Container();
        pLShellJPanel= new ShellJPanel(app, new AddTinShellView(), new TinMap(), new TinMap(), new
TinMap());
        pLShellJPanel.setLayout(null);
        pLShellJPanel.setBounds(0, 0, 800, 750);
        pLShellJPanelContainer.add(pLShellJPanel);
        jTabbedpane.addTab("德塔 TIN SHELL 语言控制台", new ImageIcon(), pLShellJPanelContainer
, "德塔 TIN SHELL 语言控制台");
        jTabbedpane.setMnemonicAt(2, KeyEvent.VK_2);
        Container vPCSRestPanelContainer= new Container();
        vPCSRestPanel= new VPCSRestPanel(app);
        vPCSRestPanel.setLayout(null);
        vPCSRestPanel.setBounds(0, 0, 800, 750);
        vPCSRestPanelContainer.add(vPCSRestPanel);
        jTabbedpane.addTab("德塔 WEB 智能控制台", new ImageIcon(), vPCSRestPanelContainer,
  "德塔 WEB 智能控制台");
        jTabbedpane.setMnemonicAt(3, KeyEvent.VK_3);
        Container zongHeJPanelContainer= new Container();
        youBiaoJPanel= new YouBiaoSectionPanel(app);
        youBiaoJPanel.setLayout(null);
        youBiaoJPanel.setBounds(0, 0, 800, 750);
        zongHeJPanelContainer.add(youBiaoJPanel);
        jTabbedpane.addTab("综合游标配置中心", new ImageIcon(), zongHeJPanelContainer
```

```
, "综合游标配置中心");
            jTabbedpane.setMnemonicAt(4, KeyEvent.VK_4);
            //this.setLayout(null);
            this.setPreferredSize(new Dimension(800, 750));
            //jTabbedpane.setBounds(0, 0, 805, 505);
            this.add(jTabbedpane);
            this.setBounds(0, 0, 793, 753);
            this.setVisible(true);
            this.validate();
        }
        @Override
        public void actionPerformed(ActionEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void keyPressed(KeyEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void keyReleased(KeyEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void keyTyped(KeyEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void mouseClicked(MouseEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void mouseEntered(MouseEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void mouseExited(MouseEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void mousePressed(MouseEvent arg0) {
            // TODO Auto-generated method stub
        }
        @Override
        public void mouseReleased(MouseEvent arg0) {
            // TODO Auto-generated method stub
        }
}
```

```
package OEU.LYG4DQS4D;
```

```
//20200314 集成了最新的小高峰过滤催化排序 5 代思想。
//20200818 集成了最新的小高峰过滤催化排序 9 代思想。
//增加同拼音同笔画的字按 char 的 int 大小区分 20210529
//罗瑶光
//今天将新陈代谢技术应用到 中文拼音笔画分词上.
//罗瑶光
public class LYG10DWCMSSort15D_XCDX_C_U_A extends LYG10DWCMSSort13D_XCDX_C_A implements
LYG10DWCMSSort13D_XCDX_C_U_A_C {
    public void processKernel(String[] kernel, int leftPosition
            , int rightPosition, int scale, int point) {
        int rightPositionReflection= rightPosition;
        if(point> scale) {
            return;
        }
        processQS4DLYG9D(kernel, leftPosition, rightPosition, scale, point, 0);
        int i;
        for(i= leftPosition; i<= rightPosition; i++) {
            if(!(kernel[i].length()<= point|| kernel[leftPosition].length()<= point)) {
                if(kernel[i].charAt(point)!= kernel[leftPosition].charAt(point)){
                    rightPositionReflection= i- 1;
                    processKernel(kernel, leftPosition, rightPositionReflection, scale, point+ 1);
                    leftPosition= i;
                }
            }
        }
        if(leftPosition!= rightPosition) {
            processKernel(kernel, leftPosition, i- 1, scale, point+ 1);
        }
    }
    public void processSort(String[] kernel, int leftPosition
            , int rightPosition, int scale, int point) {
        if(point> scale) {
            return;
        }
        for(int i= leftPosition; i<= rightPosition; i++) {
            Here:
                for(int j= i; j<= rightPosition; j++) {
                    if(i= = j) {
                        continue Here;
                    }
                    if(kernel[i].length()<= point|| kernel[j].length()<= point) {
                        if(kernel[i].length()< kernel[j].length()) {
                            for(int p= 0; p< scale; p++) {
                                if(!(kernel[i].length()<= p|| kernel[j].length()<= p)) {
                                    if(kernel[i].charAt(p)!= kernel[j].charAt(p)) {
                                        continue Here;
                                    }
                                }
                            }
```

```
                String temp= kernel[i].toString();;
                kernel[i]= kernel[j].toString();;
                kernel[j]= temp;
            }
            continue Here;
        }else {
            boolean hasXi= pinyin.containsKey(""+ kernel[i].charAt(point));
            boolean hasXj= pinyin.containsKey(""+ kernel[j].charAt(point));
            boolean hasBi= bihua.containsKey(""+ kernel[i].charAt(point));
            boolean hasBj= bihua.containsKey(""+ kernel[j].charAt(point));
            if(!(!hasXi|| !hasXj)){//都有拼音
                String[] js= new String[2];
                js[0]= this.pinyin.get(""+ kernel[i].charAt(point));
                js[1]= this.pinyin.get(""+ kernel[j].charAt(point));
                if(js[0].equalsIgnoreCase(js[1])) {
                    if(!(!hasBi|| !hasBj)){//都有笔画
                        if(this.bihua.get(""+ kernel[i].charAt(point))
                                > this.bihua.get(""+ kernel[j].charAt(point))) {
                            String temp= kernel[i].toString();
                            kernel[i]= kernel[j].toString();
                            kernel[j]= temp;
                            continue Here;
                        }else if(this.bihua.get(""+ kernel[i].charAt(point))
                                = = this.bihua.get(""+ kernel[j].charAt(point))) {
                            int asci= kernel[i].charAt(point);
                            int ascj= kernel[j].charAt(point);
                            if(asci< ascj) {//根据前面 select 的 sort 定义来规范,盲目改成大于会出错.
                                String temp= kernel[i].toString();
                                kernel[i]= kernel[j].toString();
                                kernel[j]= temp;
                                continue Here;
                            }
                        }
                    }
                }
                boolean change= processSortpinyin(js, 3);
                if(!(!change|| i>= j)) {
                    String temp= kernel[i].toString();
                    kernel[i]= kernel[j].toString();
                    kernel[j]= temp;
                }
                continue Here;
            }else if(!(hasXi|| !hasXj)){//其中一个有拼音
                if(i< j) {
                    if(!(i= = rightPosition+1 || j= = rightPosition+1)) {
                        String temp= kernel[i].toString();
                        kernel[i]= kernel[j].toString();
                        kernel[j]= temp;
                    }
```

```
                        }
                        continue Here;
                    }else if(!(!hasXi|| hasXj)){
                        if(i> j) {
                            if(!(i= = rightPosition+1 || j= = rightPosition+1)) {
                                String temp= kernel[i].toString();
                                kernel[i]= kernel[j].toString();
                                kernel[j]= temp;
                            }
                        }
                        continue Here;
                    }else if(!(hasXi|| hasXj)){//都没有拼音
                        if(kernel[i].toLowerCase().charAt(point)
                                > kernel[j].toLowerCase().charAt(point)) {
                            if(i< j) {
                                String temp= kernel[i].toString();
                                kernel[i]= kernel[j].toString();
                                kernel[j]= temp;
                            }
                            continue Here;
                        }
                        if(kernel[i].toLowerCase().charAt(point)
                                = = kernel[j].toLowerCase().charAt(point)) {
                            if(kernel[i].charAt(point)> kernel[j].charAt(point)) {
                                if(i< j) {
                                    String temp= kernel[i].toString();
                                    kernel[i]= kernel[j].toString();
                                    kernel[j]= temp;
                                }
                            }
                            continue Here;
                        }
                    }
                }
            }
        }
    }
    public void processQS4DLYG9D(String[] kernel, int leftPosition
            , int rightPosition, int scale, int point, int deep) {
        if(leftPosition< rightPosition){
            int c= rightPosition- leftPosition+ 1;
            if(!(c< this.range|| deep> this.deeps)) {//增加了 deep
                int pos= partition(kernel, leftPosition, rightPosition, scale, point);
                if(leftPosition< pos- 1) {
                    processQS4DLYG9D(kernel, leftPosition, pos- 1, scale, point, deep+ 1);
                }
                if(pos+ 1< rightPosition) {
                    processQS4DLYG9D(kernel, pos+ 1, rightPosition, scale, point, deep+ 1);
                }
```

```
                return;
            }
            processSort(kernel, leftPosition, rightPosition, scale, point);
            return;
        }
    }
    public int partition(String[] array, int leftPosition, int rightPosition, int scale, int point) {
        String x= findSmall(array, scale, point, leftPosition, rightPosition, rightPosition)
                ? array[rightPosition]: array[leftPosition];
        int leftPositionReflection= leftPosition;
        while(leftPositionReflection< rightPosition) {
            while(!(findSmallWithTwoChar(array[leftPositionReflection]
                    , x, scale, point)|| leftPositionReflection++ >= rightPosition)) {}
            while(findSmallWithTwoChar(array[rightPosition--], x, scale, point)){}
            if(leftPositionReflection< ++rightPosition){
                String temp= array[rightPosition].toString();;
                array[rightPosition]= array[leftPositionReflection].toString();;
                array[leftPositionReflection]= temp;
            }
        }
        array[leftPosition]= array[rightPosition].toString();
        array[rightPosition]= x.toString();
        return rightPosition;
    }
}
```

7.1 文件名目录

```
public class E_pl_XA_E {
public class P_AO_PLETL
public class P_AO_pl_XA {
public class P_AO_PLTCP {
public class P_CO_pl_XA__XCDX_Cache extends P_CO_pl_XA_XCDX {
public class P_CO_pl_XA_XCDX_Kernel extends P_CO_pl_XA_XCDX {
public class P_CO_pl_XA_XCDX_Map extends P_CO_pl_XA_XCDX {
public class P_CO_pl_XA_XCDX {
public class P_I_CulumnsPL_XA {
public class P_RelationPL_XA {
public class Pl_XA_Command_E {
public class SortStringDemo{
public interface Pl_XA_C{
public class Pl_XA_E implements Pl_XA_C{
public class XA_ShellQ_JoinRows_E {
public class XA_ShellTable{
public class XA_ShellTables{
public class ShellJPanel extends JPanel implements MouseListener, KeyListener, ActionListener{
public class OSGI_chansfer {
public class OSI_OSU_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI_register{
public class I_TinShellRun extends OSU_AVQ_ASQ_OPE_OPC_ECI{
public class TinMap extends ConcurrentHashMap<String, Object> implements Cloneable{
```

public class App_CM extends ScrollPane implements MouseListener, KeyListener, ActionListener{
public class LYG10DWCMSSort15D_XCDX_C_U_A extends LYG10DWCMSSort13D_XCDX_C_A implements LYG10DWCMSSort13D_XCDX_C_U_A_C {

7.2 文件内容 DNA 元基编码索引

SEARCH= XA_
CONDITION= CO_
AGGREGATION= AO_

E_PLSearch_E= E_PL_XA_E
P_AggregationPLETL= P_AO_PLETL
P_AggregationPLSearch= P_AO_PL_XA
P_AggregationPLTCP= P_AO_PLTCP
P_ConditionPLSearch_XCDX_Cache= P_CO_PL_XA_XCDX_Cache
P_ConditionPLSearch_XCDX_Kernel = P_CO_PL_XA_XCDX_Kernel
P_ConditionPLSearch_XCDX_Map= P_CO_PL_XA_XCDX_Map
P_ConditionPLSearch_XCDX= P_CO_PL_XA_XCDX
P_GetCulumnsPLSearch= P_I_CulumnsPL_XA
P_RelationPLSearch= P_RelationPL_XA
PLSearchCommand_E= PL_XA_Command_E
SortStringDemo= SortStringDemo
PL_XA_C= PL_XA_C
PL_XA_E= PL_XA_E
SearchShellQ_JoinRows_E= XA_ShellQ_JoinRows_E
SearchShellTable= XA_ShellTable
SearchShellTables= XA_ShellTables
ShellJPanel= ShellJPanel
OSGI_chansfer= OSGI_chansfer
OSI_OSU_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI_register=
OSI_OSU_ASQ_OCQ_OSI_PCI_PCU_MCI_MCU_MSI_register
AddTinShellRun= I_TinShellRun
TinMap= TinMap
AppConfig= App_CM
LYG10DWCMSSort15D_XCDX_C_U_A= LYG10DWCMSSort15D_XCDX_C_U_A
LYG10DWCMSSort13D_XCDX_C_U_A_C= LYG10DWCMSSort13D_XCDX_C_U_A_C

8 引用

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8.5, 罗瑶光, DNA 微分催化计算体系, GITHUB, https: //github. com/yaoguangluo

8.6, 罗瑶光, 德塔开源体系, GITEE, https: //gitee. com/detachina

8.7, 罗瑶光, 罗荣武, 中华人民共和国国家版权局, 类人 DNA 与 神经元基于催化算子映射编码方式,CN2020Z11L0333706, 国作登字-2021-A-00097017.

8.8 罗瑶光，中华人民共和国国家版权局， DNA 元基催化与肽计算_第三修订版 V039_010912, CN2021Z11L1267991

8.9 东尼·霍尔，快速排序第四代，第七章，PARTII, 算法导论, ISBN9787111187776

9 注意

9.1（Programmable Language SQL）PLSQL 第一次提出这个关键词概念 为美国甲骨文公司。
9.2 作者的快速排序 4 代源码不是算法导论直接获得的，是在很久以前在百度文库上 下载 的专一一章，所以仅仅 Refer 东尼·霍尔，因 快速排序思想被 算法导论 收录，所以仅 Refer 算法导论一书。关于算法导论的编辑作者 **托**马斯·**科**尔**曼**、查尔斯·**雷瑟**尔**森**、罗纳德·**李**维斯特、**克利福德**·斯坦，不在本文的 Refer 列，在此申明下。

10 开发工具

杀毒：内含 Avira，Windows 安全中心，腾讯电脑管家实时防护（360 杀毒最近 10 天莫名自动关闭了）
系统：Windows10， 联想 Y7000 2020，
文档设计：WPS, DOCX
源码保存：Github, Gitee, Bitbucket, Codingnet
源码编辑：Eclipse
其他 WEB 日记媒体 感谢，略。

11 二次开发使用方法

该源码的引擎比较稳定，新增命令可直接在 `E_pl_XA_E` 文件中添加指令，然后逐级断点调试 `Pl_XA_Command_E`，添加相关的文件中即可。

罗瑶光，
浏阳