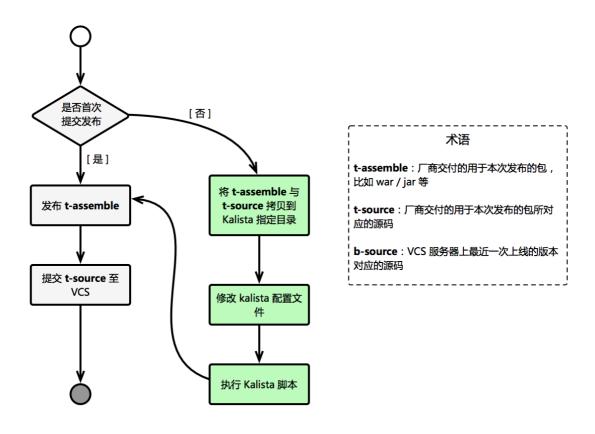
# User Manual for Kalista (v1.0.0)

Kalista 脚本用于扫描比对一个项目的两个版本之间的代码差异,与普通的文本比对工具的差别在于,它并不只是简单的以纯文本的方式进行差别比较(当然 Kalista 也支持这种方式的比较),它还能够针对不同的文件类型执行不同的扫描策略,比如对于 sqlmap 文件, Kalista 可以解析两个版本之间的 select, delete, insert 等元素的变化情况,并给出相应的报告。



### 执行环境

#### Kalista

通过 <a href="https://raw.githubusercontent.com/watertao/devops/master/kalista/kalista.zip">https://raw.githubusercontent.com/watertao/devops/master/kalista/kalista.zip</a> 下载 Kalista ,将下载的 Kalista 压缩包解压到任意路径,解压后的目录结构看起来如下(前缀 d 为目录,前缀 f 为文件):

- [d] kalista
  - [d] conf
  - [d] docs
  - [d] module
  - [f] kalista.py
  - conf

用于存放脚本执行时的配置文件

docs

用于存放操作手册和开发手册等文档

• module

主脚本需要依赖的脚本库,包括第三方脚本库

kalista.py

主脚本(即启动脚本)

在本手册的后文中,将使用 \$KALISTA\_HOME 描述 Kalista 解压的实际位置。

### **Python**

Kalista 采用 Python 3.6 编写,因此在执行该脚本前,请确保已安装 Python 3.6 (<a href="https://www.python.org/">https://www.python.org/</a>)。

安装完成后,请确保 python 可以正确在命令行中执行(部分操作系统可能需要设置环境变量):

```
# python3 -version
Python 3.6.0
```

#### VCS 客户端

对于一个项目而言,每次新版本发布之后,其版本对应的源代码需要上传到 VCS 服务器上,这可以方便脚本快速获取最近一次上线的版本代码作为比较基线。

目前 Kalista 只支持 Subversion 作为 VCS。因此我们需要确保在执行脚本的操作系统上已经安装了 Subversion 客户端。Windows 操作系统建议安装 SlikSvn ( <a href="http://www.sliksvn.com">http://www.sliksvn.com</a>); Mac 一般已经 预装 svn 客户端,否则可以通过 homebrew 进行安装;Linux 的各种桌面发行版一般也已经预装,否则可以通过其自带的包管理器安装。

安装完成后,请确保 svn 可以正确在命令行中执行(部分操作系统可能需要设置环境变量):

```
# svn -version
svn, version 1.9.4 (r1740329)
compiled Nov 15 2016, 20:35:27 on x86_64-apple-darwin15.0.0
```

### 执行脚本

Kalista 脚本提供了两个执行逻辑: 初始化工作目录 和 扫描比对。

#### 初始化工作目录

Kalista 脚本的执行需要一个工作目录(workspace)。目标版本的代码及发布物、VCS 上签出的基线代码、执行过程中的临时文件、输出的扫描比对报告等都存放在这个工作目录中。因此在执行扫描比对前我们需要对工作目录进行初始化。工作目录的位置可以在配置文件中设置,详情参考后面的配置文件章节。

#### 用法:

### > python3 kalista.py [-p <conf\_file\_name>] init

其中 init 参数表示这条命令用于初始化工作目录。选项 p 用于指定命令需要读取的配置文件,比如 -p community ,表示读取 community.json 配置文件 , 若缺省该选项 ,则默认读取 config.json。

### 范例:

```
# cd $KALISTA_HOME
# python3 kalista.py init
Initialize workspace [ ./workspace ]
Done.
```

#### 扫描比对

当我们将目标发布包及源代码存放到工作目录的指定位置后(参考工作目录章节),可以执行扫描比对命令。该命令会先检测目标发布包与源代码是否匹配(即该发布包是否由给定的源代码构建而出),接着从 VCS 上签出最后一次上线的源代码作为比对基线,然后扫描比对目标源代码和基线源代码,最终输出比对报告。

#### 用法:

### > python3 kalista.py [-p <conf\_file\_name>]

与初始化工作目录命令的区别在于它没有参数 init。选项 p 用于指定命令需要读取的配置文件,比如 -p community ,表示读取 community.json 配置文件 , 若缺省该选项 ,则默认读取 config.json。

## 范例:

```
# cd $KALISTA_HOME
# python3 kalista.py
Initialize workspace [ ./workspace ]
Done.
03-09 09:43 root
                        INFO
03-09 09:43 root
                       INFO
                               - - BUILD CHECKER ( java web app ) #
check whether war is exactly build from specified source
03-09 09:43 root INFO
                        INFO
03-09 09:43 root
                                Γ subprocess 1 mvn -s
./workspace/artifact/conf/maven/settings.xml -f
./workspace/temp/cb/build/common/pom.xml clean install
03-09 09:43 root
                        INFO
                                [ checking ]
./workspace/temp/cb/chk/assemble/constant.jar -VS-
temp/cb/build/common/securities-bs-common-constant/target/securities-bs-
common-constant-0.0.1-SNAPSHOT.jar
03-09 09:43 root
```

```
INFO - - SCAN COMPARER ( raw file ) # scan the
03-09 09:43 root
files and compare as the raw text
03-09 09:43 root
                         TNFO
03-09 09:43 root
                         INF0
                                  [U] common/securities-bs-common-
constant/pom.xml
03-09 09:43 root
                         INFO
                                  [D] common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                                  [A] common/sqlmap/ArticleInfo_SqlMap.xml
                         INFO
03-09 09:43 root
                         INF0
                                  [U]
common/sqlmap/MessSysNotice_SqlMap.xml
03-09 09:43 root
                         INFO
                                  [U] common/sqlmap/UserBase_SqlMap.xml
03-09 09:43 root
                         INFO
                                  Done.
03-09 09:43 root
                         INFO
03-09 09:43 root
                         INFO
03-09 09:43 root
                                  - - SCAN COMPARER ( i(my)batis sqlmap ) #
                         INFO
scan the sqlmap configuration files and find difference between 2 version
03-09 09:43 root
                         INFO
03-09 09:43 root
                         INFO
                                  [D] [ - sql - BaseSysUser.commonColumns ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                  [D] [ - sql - BaseSysUser.dynamicUpdate ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                  [D] [ - insert - BaseSysUser.insert ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                 [D] [ - delete - BaseSysUser.delete ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
                                  [D] [ - select - BaseSysUser.getById ]
03-09 09:43 root
                         INFO
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INF0
                                [D] [ - select - BaseSysUser.getByOrgId ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
                                [D] [ - select - BaseSysUser.findAll ]
03-09 09:43 root
                         INFO
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                [D] [ - sql - BaseSysUser.dynamicWhere ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                  [D] [ - select -
BaseSysUser.getByEmpNoAndOrgId_1 ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
                                  [D] [ - select - BaseSysUser.getByEmpNo ]
03-09 09:43 root
                         INFO
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                 [D] [ - select - BaseSysUser.getByEmpId ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                 [D] [ - select - BaseSysUser.getByEmpName
] ./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                 [D] [ - select -
BaseSysUser.getByLikeEmpNo ]
./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
03-09 09:43 root
                         INFO
                                  Done.
03-09 09:43 root
                         INFO
```

#### 工作目录初始化后,看起来如下:

- [d] myworkspace
  - [d] artifact
    - [d] assemble
    - [d] source
  - [d] base
  - [d] conf
  - [d] output
  - [d] temp
  - artifact

用于存放目标发布包及源代码,所谓目标发布包和源代码就是本次准备要上线的版本

- 。 assemble 存放发布包,比如 war 包
- o source 存放源代码
- base

用于存放上一个成功发布版本的源代码,一般是从 VCS 服务器上签出,当然也支持直接拷贝到此目录

• conf

用于存放插件在运行过程中所需的配置文件,详情参考查件介绍章节

• output

用于存放扫描比对的结果报告

• temp

用于存放插件在执行过程中产生的临时文件

在本手册的后文中,将使用 \$WORKSPACE 描述工作目录实际位置。

## 配置文件

Kalista 的配置文件使用了 JSON 格式,被保存在 \$KALISTA\_HOME/conf 目录下,在默认的分发包中包含了两个预定义的配置文件:

config.json

包含了最基本的简单配置,用于检测 Kalista 脚本的基本运行环境是否安装正确。 同时,这个文件也是 Kalista 的默认配置文件,也就是说当你在执行 Kalista 脚本时如果未指定 -p 选项,那么脚本将默认使用此配置文件,所以我们可以在后续的使用过程中修改此文件作为己用。

• example.json

包含了比较完整的配置范例,在编写自己的配置文件时可以参考此配置文件。不建议修改此配置文件。

Kalista 的配置可以分为两大部分: 主配置 和 插件配置。

## 主配置参考:

正即直参与 ·	描述			
workspace.path	工作目录的位置,建议使用绝对路径。如果使用相对路径,则需要切记,其相对的路径为脚本执行时的当前位置(并非脚本所在位置)。           范例:			
	"/home/watertao/Work/myworkspace"			
vcs.ignore	是否需要从 VCS 签出代码。若为 true,则不需从 VCS 签出代码,直接手动拷贝基线源码到 \$WORKSPACE/base 下即可。若为 false,则需要从指定的 VCS 签出基线源码。			
vcs.working_cop ies[]	脚本可以从多个 VCS URL 签出源码,配置时可以将其写在一个列表中			
	VCS URL。			
vcs.working_cop ies[].remote	范例: "http://10.10.10.176:88/svn/accountcenter/Code/accountcenter/branches/2.9.7.4/common"			
vcs.working_cop	从 VCS 签出的代码所保存的路径。 <mark>此处是相对路径,相对于工作目录的 base 文件夹</mark> 。			
ies[].local	范例: "./" 代表将代码保存到 \$WORKSPACE/base 下 "./test" 代表将代码保存到 \$WORKSPACE/base/test 下			
build_checkers[]	用于检查目标发布包与目标源码之间是否匹配,即目标发布包是否由目标源码构建而来。不同的项目类型使用不同的 build checker 插件进行检查,它们的配置也会不同,具体参考插件介绍章节。			
scan_comparers[ 用于扫描比对目标源码与基线源码之间的差别。不同的比对插件有不同的 ] 具体参考插件介绍章节。				

# build checker 插件

build checker 插件用于检查给到的目标发布包(位于 \$WORKSPACE/artifact/assemble 中的发布包,如war 包)是否是由给到的目标源码(位于 \$WORKSPACE/artifact/source 中的源码)所构建而成。其检测的步骤一般是将目标源码进行构建,然后将此构建包与给到的目标发布包进行递归解压 checksum 比对,如果完全一致则认为目标发布包与目标源码是匹配的。

# javawebapp

该插件用于检查基于 Maven 构建的 java webapp 项目。

# 执行环境

JDK 1.6+ Apache Maven 3.0+

# 配置参数

ignore 若为 true 则忽略此插件的执行;若为 false 则执行此插件。					
processor	插件标识,固定为 'javawebapp'				
configuration.mvn_ setting	指定 maven 执行时的 settings 文件位置,需要存放在 \$WORKSPACE/conf 下。该路径是一个相对路径,相对于 \$WORKSPACE/conf 目录。 范例: 'maven/settings.xml' 代表 \$WORKSPACE/conf/maven/settings.xml				
configuration.build s[]	有时候一个项目的源码可能由多个 POM 项目构成,那就需要写多个构建配置				
configuration.build s[].pom	pom.xml 的位置。相对路径,相对于 \$WORKSPACE/artifact/source 目录。 范例: 'common/pom.xml' 代表 \$WORKSPACE/artifact/source/common/pom.xml				
configuration.chec ks[]	指定需要进行检查的两个压缩文件,比如 war 或 jar。可以指定多组。				
configuration.chec ks[].assemble	指定进行检查目标压缩包。相对路径,相对于 \$WORKSPACE/artifact/assemble 目录。 范例: 'test.war' 代表 \$WORKSPACE/artifact/assemble/test.war				
configuration.chec ks[].build	指定插件构建出的检查参考压缩包。相对路径,相对于 \$WORKSPACE/artifact/source 目录。 范例: 'common/securities-bs-common-constant/target/securities-bs-common-constant-0.0.1-SNAPSHOT.jar'				

### 配置文件

settings.xml

Maven 的执行时配置文件,需要放在 \$WORKSPACE/conf 目录下,与配置参数中的 configuration.mvn\_setting 对应。

# Scan Comparer 插件

Scan Comparer 插件用于扫描比对两个版本的源代码,并根据插件的规则找出源代码间的差异,最终输出插件特有的报告。两个版本的源代码分别为 \$WORKSPACE/artifact/source 下的 和 \$WORKSPACE/base下的。

### raw

该插件对纯文本进行比对,并输出报告。

## 执行环境

N/A

## 配置参数

ignore	若为 true 则忽略此插件的执行;若为 false 则执行此插件。				
processor	插件标识,固定为 <mark>'raw'</mark>				
configuration.filter[	在进行比对的时候,有些文件可能无需进行比较,那么可以在此指定过滤。目前只支持完整的文件名加扩展名,未来会支持采用通配符等方式。				
]	范例: '.DS_Store' 在进行比对的时候,如果发现这个文件,则忽略比较				

### 配置文件

N/A

## 报告

变化类型	文件	
UPDATE	common/securities-bs-common-constant/pom.xml	
DELETE	common/sqlmap/BaseSysUser_SqlMap.xml	
ADD	common/sqlmap/ArticleInfo_SqlMap.xml	
UPDATE	<pre>common/sqlmap/MessSysNotice_SqlMap.xml</pre>	
UPDATE	common/sqlmap/UserBase_SqlMap.xml	

# sqlmap

该插件对 Mybatis 的 sqlmap 文件进行扫描比对,找出文件中 select, delete, insert 等元素的变化。

## 执行环境

N/A

# 配置参数

ignore	若为 true 则忽略此插件的执行;若为 false 则执行此插件。			
processor	插件标识,固定为 <mark>'sqlmap'</mark>			
	通过这个参数可以指定多个 sqlmap 文件所在的目录。相对路径,相对于 \$WORKSPACE/artifact/source 目录			
configuration.conf_ path[]	范例: 'common/sqlmap' 代表扫描 \$WORKSPACE/artifact/source/common/sqlmap 下的所有 xml 文 件。			

### 配置文件

# N/A

# 报告

ADD ArticleInfo sql dynamicUpdate ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo insert insert ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml	变化类型	命名空间	元素类型	元素标识	文件
BaseSysUser	DELETE	BaseSysUser	sql	commonColumns	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
BaseSysUser delete delete ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select getById ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select getByOrgId ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select findAll ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser sql dynamicWhere ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select getByEmpKoAndOrgId_1 ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelect_count ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelect ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelect ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelect ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  ADO ArticleInfo sql dynamicUpdate ./workspace/base/common/sqlman/BaseSysUser_SqlMan.xml  ADO ArticleInfo sql dynamicUpdate ./workspace/artifact/source/common/sqlman/ArticleInfo_SqlMan.xml  ADO ArticleInfo select getById ./workspace/artifact/source/common/sqlman/ArticleInfo_SqlMan.xml  ADO ArticleInfo select getById ./workspace/artifact/source/common/sqlman/ArticleInfo_SqlMan.xml  ADO ArticleInfo select getByBroperties ./workspace/artifact/source/common/sqlman/ArticleInfo_SqlMan.xml  ADO ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlman/ArticleInfo_SqlMan.xml  ADO ArticleInfo select pageSel	DELETE	BaseSysUser	sql	dynamicUpdate	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
DELETE BaseSystSer select getByEnd	DELETE	BaseSysUser	insert	insert	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
BaseSystSer select getByOrgId _/workspace/base/common/sqlamp/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select findAll _/workspace/base/common/sqlamp/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select getByEmpNoAndOrgId_1 _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select getByEmpNo _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select getByEmpNo _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select getByEmpName _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select getByEmpName _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select getByLkeEmpNo _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelect_count _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelect_count _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelect _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelectLike_count _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelectLike_count _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelectLike _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelectLike _/workspace/base/common/sqlmap/BaseSystSer_SqlMap.xml  DELETE BaseSystSer select pageSelectLike _/workspace/artifact/source/common/sqlmap/ArticleInfo SqlMap.xml  ADD ArticleInfo sql dynamicUpdate _/workspace/artifact/source/common/sqlmap/ArticleInfo SqlMap.xml  ADD ArticleInfo select getById _/workspace/artifact/source/common/sqlmap/ArticleInfo SqlMap.xml  ADD ArticleInfo select getById _/workspace/artifact/source/common/sqlmap/ArticleInfo SqlMap.xml  ADD ArticleInfo select pageSelect_count _/workspace/artifact/source/common/sqlmap/ArticleInfo SqlMap.xml  ADD ArticleInfo select pageSelect _/workspace/artifact/source/common/sqlmap/ArticleInfo SqlMap.xml  ADD ArticleI	DELETE	BaseSysUser	delete	delete	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
BaseSysUser select findAll ./workspace/base/common/sqlmap/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select getByEmpNoAndOrgId_l ./workspace/base/common/sqlmap/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select getByEmpNo ./workspace/base/common/sqlmap/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select getByLikeEmpNo ./workspace/base/common/sqlmap/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelect_count ./workspace/base/common/sqlmap/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelectLike_count ./workspace/base/common/sqlmap/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelectLike_count ./workspace/base/common/sqlmap/BaseSysUser_SqlMan.xml  DELETE BaseSysUser select pageSelectLike ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMan.xml  ADD ArticleInfo sql dynamicWpdate ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMan.xml  ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMan.xml  ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMan.xml  ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMan.xml  A	DELETE	BaseSysUser	select	getById	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
BaseSysUser select getByEmpNoAndOrgId_1 /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select getByEmpNo /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select getByEmpId /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select getByEmpId /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select getByEmpName /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select getByLikeEmpNo /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select pageSelect_count /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select pageSelect /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select pageSelectLike_count /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select pageSelectLike_count /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select pageSelectLike /workspace/base/common/solman/BaseSysUser_SolMap.xml  DELETE BaseSysUser select pageSelectLike /workspace/artifact/source/common/solman/ArticleInfo_SolMap.xml  ADD ArticleInfo sql dynamicUpdate /workspace/artifact/source/common/solman/ArticleInfo_SolMap.xml  ADD ArticleInfo insert insert /workspace/artifact/source/common/solman/ArticleInfo_SolMap.xml  ADD ArticleInfo select getById /workspace/artifact/source/common/solman/ArticleInfo_SolMap.xml  ADD ArticleInfo select getById /workspace/artifact/source/common/solman/ArticleInfo_SolMap.xml  ADD ArticleInfo select getByProperties /workspace/artifact/source/common/solmap/ArticleInfo_SolMap.xml  ADD ArticleInfo select pageSelect_count /workspace/artifact/source/common/solmap/ArticleInfo_So	DELETE	BaseSysUser	select	getByOrgId	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
BaseSysUser select getByEmpNoAndOrgId_1 _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select getByEmpNo _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select getByEmpName _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select getByEmpName _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select getByLikeEmpNo _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select pageSelect_count _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select pageSelect_Like_count _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select pageSelectLike_count _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select pageSelectLike_count _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select pageSelectLike _/workspace/base/common/sglmap/BaseSysUser_SglMap.xml  DELETE BaseSysUser select pageSelectLike _/workspace/artifact/source/common/sglmap/ArticleInfo_SglMap.xml  ADD ArticleInfo sql dynamicUpdate _/workspace/artifact/source/common/sglmap/ArticleInfo_SglMap.xml  ADD ArticleInfo delete delete _/workspace/artifact/source/common/sglmap/ArticleInfo_SglMap.xml  ADD ArticleInfo select getById _/workspace/artifact/source/common/sglmap/ArticleInfo_SglMap.xml  ADD ArticleInfo select getById _/workspace/artifact/source/common/sglmap/ArticleInfo_SglMap.xml  ADD ArticleInfo select getByProperties _/workspace/artifact/source/common/sglmap/ArticleInfo_SglMap.xml  ADD ArticleInfo select pageSelect_count _/worksp	DELETE	BaseSysUser	select	findAll	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
BaseSysUser select getByEmpNo ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select getByEmpName ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select getByLikeEmpNo ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelect_count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelect ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike_count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike_count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  ADD ArticleInfo sql dynamicUpdate ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo insert insert ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getById ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getById ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getByProperties ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getByProperties ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect_count ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect_count ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect_count ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect ,/workspace/artifact/source/commo	DELETE	BaseSysUser	sql	dynamicWhere	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
BaseSysUser select getByEmpId ,/workspace/base/common/sqlman/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select getByEmpName ,/workspace/base/common/sqlman/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select getByLikeEmpNo ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelect_count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike_count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike_count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike _count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike _count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike _count ,/workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  ADD ArticleInfo sql dynamicUpdate ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getById ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getByProperties ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect_count ,/workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect ,/workspace/base/commo	DELETE	BaseSysUser	select	getByEmpNoAndOrgId_1	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
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DELETE BaseSysUser select pageSelectLike_count ./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike_count ./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  DELETE BaseSysUser select pageSelectLike ./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  ADD ArticleInfo sql commonColumns ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo sql dynamicUpdate ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo insert insert ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  DELETE BaseSysUser SqlMap.xml  UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/ArticleInfo_SqlMap.xml	DELETE	BaseSysUser	select	getByLikeEmpNo	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
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BaseSysUser select pageSelectLike ./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml  ADD ArticleInfo sql commonColumns ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo sql dynamicUpdate ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo insert insert ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  DEDATE MessSysNotice sql commonColumns ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml	DELETE	BaseSysUser	select	pageSelect	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
ADD ArticleInfo sql commonColumns ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo sql dynamicUpdate ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo insert insert ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml	DELETE	BaseSysUser	select	pageSelectLike_count	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
ADD ArticleInfo sql dynamicUpdate ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo insert insert ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml	DELETE	BaseSysUser	select	pageSelectLike	./workspace/base/common/sqlmap/BaseSysUser_SqlMap.xml
ADD ArticleInfo insert insert ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml	ADD	ArticleInfo	sql	commonColumns	./workspace/artifact/source/common/sglmap/ArticleInfo_SglMap.xml
ADD ArticleInfo delete delete ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml	ADD	ArticleInfo	sql	dynamicUpdate	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
ADD ArticleInfo select getById ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml  UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/WessSysNotice_SqlMap.xml	ADD	ArticleInfo	insert	insert	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
ADD ArticleInfo sql dynamicWhere ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/UserBase_SqlMap.xml	ADD	ArticleInfo	delete	delete	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
ADD ArticleInfo select getByProperties ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml  UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/UserBase_SqlMap.xml	ADD	ArticleInfo	select	getById	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
ADD ArticleInfo select pageSelect_count ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml  UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/UserBase_SqlMap.xml	ADD	ArticleInfo	sql	dynamicWhere	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
ADD ArticleInfo select pageSelect ./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml  UPDATE MessSysNotice sql commonColumns ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml  UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/UserBase_SqlMap.xml	ADD	ArticleInfo	select	getByProperties	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
UPDATE         MessSysNotice         sql         commonColumns         ./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml           UPDATE         UserBase         sql         commonColumns         ./workspace/base/common/sqlmap/UserBase_SqlMap.xml	ADD	ArticleInfo	select	pageSelect_count	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
UPDATE UserBase sql commonColumns ./workspace/base/common/sqlmap/UserBase_SqlMap.xml	ADD	ArticleInfo	select	pageSelect	./workspace/artifact/source/common/sqlmap/ArticleInfo_SqlMap.xml
	UPDATE	MessSysNotice	sql	commonColumns	./workspace/base/common/sqlmap/MessSysNotice_SqlMap.xml
UPDATE UserBase insert insert ./workspace/base/common/sqlmap/UserBase_SqlMap.xml	UPDATE	UserBase	sql	commonColumns	./workspace/base/common/sqlmap/UserBase_SqlMap.xml
	UPDATE	UserBase	insert	insert	./workspace/base/common/sqlmap/UserBase_SqlMap.xml