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# ISSUE TRACKER FEATURES AND FUNCTIONALITIES

## 1. ISSUES DATA TRANSFORMATION ACTIONS

You can load your issues data from different sources into different targets, whenever those sources and targets comply with the syntax and format of the issue tracker.

A single call performing the transformation of one issues source data into another target data instance artifact are called actions.

This section contains the description of this feature-set per action.

### 1.1. txt-to-db action

You can load your issues from an "issues txt file", having a specific syntax into a PostgreSQL issue table, by issuing the shell.

This call will truncate the issue table from the db and convert all the issues data from the issues txt file into the issue table.

```
# pre-load the vars of an issue-tracker project
doParseIniEnvVars /vagrant/csitema/cnf/projects/issue-tracker/issue-tracker-issues.dev.doc-pub-host.cnf

# ensure there is no data in the issue table
psql -d "$db_name" -c 'TRUNCATE TABLE issue ;'

# run the txt-to-db action
bash src/bash/issue-tracker/issue-tracker.sh -a txt-to-db

# check the data by :
psql -d "$db_name" -c 'SELECT issue_id , category , name FROM issue order by name'
```

#### 1.1.1. txt-to-db action period handling

Issues txt files are stored in a daily folder with the following naming convention:

<<project>>.<<current\_date>>.<<period>>.txt

The tool knows to correctly fetch the issues files for the configured period ( by export period=weekly ) and copy its data into the <<period>>\_issue table.

```
ysg-issues.2017-06-03.daily.txt
ysg-issues.2017-06-03.monthly.txt
ysg-issues.2017-06-03.weekly.txt
ysg-issues.2017-06-03.yearly.txt
```

### 1.2. db-to-xls action

You can load your already stored in the issue table issues and load them into a xls file.

```
# pre-load the vars of an issue-tracker project
doParseIniEnvVars /vagrant/csitema/cnf/projects/issue-tracker/issue-tracker-issues.dev.doc-pub-host.cnf

# check the data by :
```

```
psql -d "$db_name" -c 'SELECT issue_id , start_time , stop_time , category , name FROM issue order by prio'

# run the db-to-xls action
bash src/bash/issue-tracker/issue-tracker.sh -a db-to-xls
```

### 1.3. xls-to-db action

You can load the latest produced xls file back to the issue table with all the new data as follows:

```
# check the data by :
psql -d "$db_name" -c 'SELECT issue_id , start_time , stop_time , category , name FROM issue order by prio'

# run the db-to-xls action
bash src/bash/issue-tracker/issue-tracker.sh -a xls-to-db

# check the updated data
psql -d "$db_name" -c 'SELECT issue_id , start_time , stop_time , category , name FROM issue order by start_time'
```

### 1.4. db-to-txt action

You can load your already stored in the issue table issues and load them into the same issues txt file

```
# check the data by :
psql -d "$db_name" -c 'SELECT issue_id , start_time , stop_time , category , name FROM issue order by prio'

# run the db-to-xls action
bash src/bash/issue-tracker/issue-tracker.sh -a db-to-txt

# check the updated data
psql -d "$db_name" -c 'SELECT issue_id , start_time , stop_time , category , name FROM issue order by start_time'
```

#### 1.4.1. db-to-txt action with pre-defined sorting attribute

You can load your already stored in the issue table issues and load them into the same issues txt file by using a pre-defined sorting attribute.

```
export issues_order_by_attribute=start_time

bash src/bash/issue-tracker/issue-tracker.sh -a db-to-txt
```

## 2. DEVOPS FEATURES AND FUNCTIONALITIES

### 2.1. morph-dir action

You can recursively search and replace strings in both file and dir paths and their contents ( as soon as they non-binary , txt files ) by issuing the following commands:

```
export to_srch=WriterTxtDaily
export to_repl=WriterTxtTerm
export dir_to_morph=`pwd`
bash src/bash/issue-tracker/issue-tracker.sh -a morph-dir
fg
```

## 2.2. work against different projects

The issue-tracker could be used against many different projects as soon as they have the needed file and dir structure , configuration file and dedicated db in the PostgreSQL.

```
# pre-load the vars of an issue-tracker project
doParseIniEnvVars /vagrant/csitea/cnf/projects/issue-tracker/issue-tracker-issues.dev.doc-pub-host.cnf
```

## 2.3. issue-tracker tool perl code syntax check

You can check the perl code syntax with the following command:

```
bash src/bash/issue-tracker/issue-tracker.sh -a check-perl-syntax
```