Automatic-VMS-To-VMS-TEMP-Script

This script automatically transform added key value pairs in VMS into a relational database form (VMS_TEMP). p.s. VMS_TEMP is the relational database form of VMS

----------Must Read----------

This script does not require any parameter, simply run "python init.py" will do. If the script is stopped for whatever reason, simply run "python init.py" will restore the original process, no extra manipulation is required

This script uses Python 2.7.12 and require the following package to be installed (1) redislite (2)cx_Oracle (3)zlib (4)logging (5) time (6) datetime (7)pytz

----------Optional You Dont Have To Read This----------

This file contains the following Classes(**) and functions(*):

```
** OracleDB - A class contains operations with Oracle DB
    * connect - connect to Oracle DB
    * close - close the connection to Oracle DB
** Zlib - A class using zlib library to (de)compress data
    * compress - compress the given data
    * decompress - decompress the given data
** Log - A class using logging library to log to a file
    * writeLog - write content to a log file
** RedisDB - A class using redislite to interact with local Redis server
** TryCatchException - A class catching exception
    * catchException - try catch an sql statement
** Update - A class that determine if syncing is needed and update
information of VMS
    * updateTimeTuple - update all distinct timestamp from vms to vms_temp
    * updateTimeDocId - update and compress all corresponding docId to
timestamp
    * examine - check if VMS and VMS_TEMP are synced if not run above
function and mainFunction
** MainProcess - A class that includes all the function that needed to
transform VMS to VMS_TEMP
    * getDocIdList - get all the docId as a list correspond to the input
timestamp
    * startOrFix - return last timestamp and docId
    * compare - return VMS_TEMP column name based on keys
    * vmsTempPurify - seperate VMS_ANNO_MANAGERS_CHAIN_STR and index with
ROW_ID
    * changeToUTC - change input time to UTC timezone time
    * pivot - transpose key-value pair to relational database form
    * mainFunction - main function be called by examine if needed
```