**LA\_tools Python Package**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **module** | **function** | **description** | **input** | **output** |
| tagreport  (pandas/numpy depends) |  | methods for pulling, validating & exporting tag reports |  |  |
|  | cap\_query | query to pull tag report from PE | PR\_rev (string) | report (dataframe) |
|  | check\_PRdates | main function to run cap/trans date checks | PR\_rev (str)  report (df) | cap and/or trans errors (dataframes) |
|  | * cap\_check | checks for missing start/stop dates, bad dates, est tags, zero tags, tag gaps | PR\_rev  report | error flags (dataframe) |
| * trans\_check |
|  | get\_report | main function to get tag report | PR\_rev (str) | report (dataframe) |
|  | export\_report | writes report to .csv in directory | PR\_rev  directory  (strings) | prints:  -file written  -overwrite prompt  -error |
| db\_query  (cx\_Oracle depends) |  | query DB  CHANGE BASED ON PRODUCTION  PLATFORM… | …BLOB STORAGE, DB FROM SERVER… |  |
|  | oracle\_pe | queries PE w/ credentials | query (str) | db results (list) |
|  | oracle\_lpss | TO DO? |  |  |
|  | oracle\_alps | TO DO? |  |  |
| offer\_summary  (pandas/numpy) |  | calculate statistics based on meter forecasts at PR level |  |  |
|  | offer\_summary | TO SPLIT INTO FUNCTIONS |  |  |
|  | offer  APPLY FUNCS | calc annual use, meter peaks, CP, % diff bt tag & CP/actual | ch 3 data  (df) | offer sum  (dataframe) |
|  | peaktag\_check | subset where tag, diff > min\_tag, abs(min\_diff) | ch3 data, offer sum (df)  min tag, min diff  (float) | problem meters  (df) |
|  | iter\_plot | plots multiple graphs | ch3 data  (df) | plots |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**TO DO:** convert code to work w/ classes,

expand database query functionality

expand offer summary across markets

create setup.py, readme & dependencies