TD REPLY

This document will explain the functionality of the test code, for this program I have selected from all the public APIs offered the one from https://www.worldcoinindex.com/apiservice to extract the current value of many cryptocurrencies.

What is need:

- Python 2.7
- External Python modules
- MySql Server

Parameters you can add (argument parser):

- (--reptime) – minutes of difference between API calls
- (--exectime) – execution time in minutes

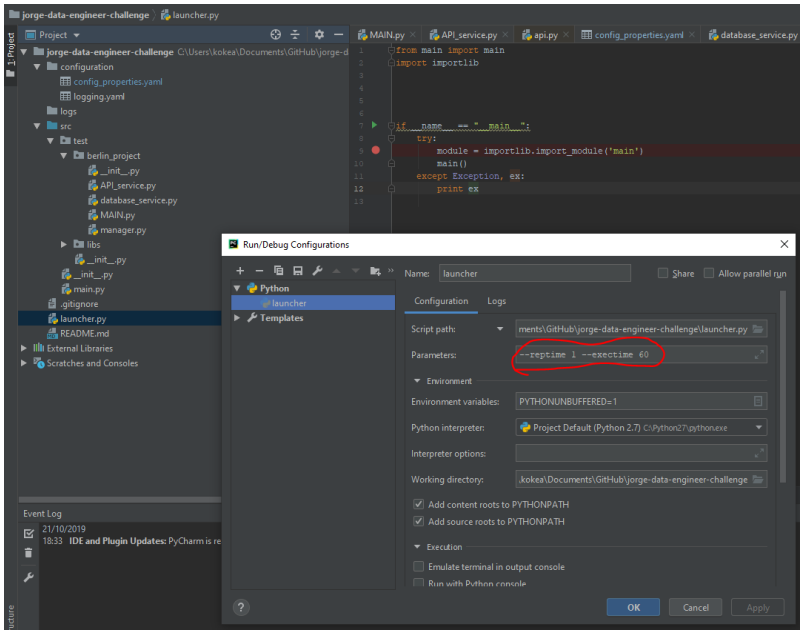
Parameters you must set-up (config_properties.yaml):

- DATABASE_host : 'localhost'
- DATABASE_port : '3306'
- DATABASE_db : 'crypto'
- DATABASE_user : 'userforberlintest'
- DATABASE_pass : 'passforberlintest'
- DATABASE_table : 'cryptocurrency_lake'
- example_coins : 'GAT,GAL'
- API_token : 'XXXXXXXXXXXXXXXXXX'
- name_app : 'Test_project_berlin'

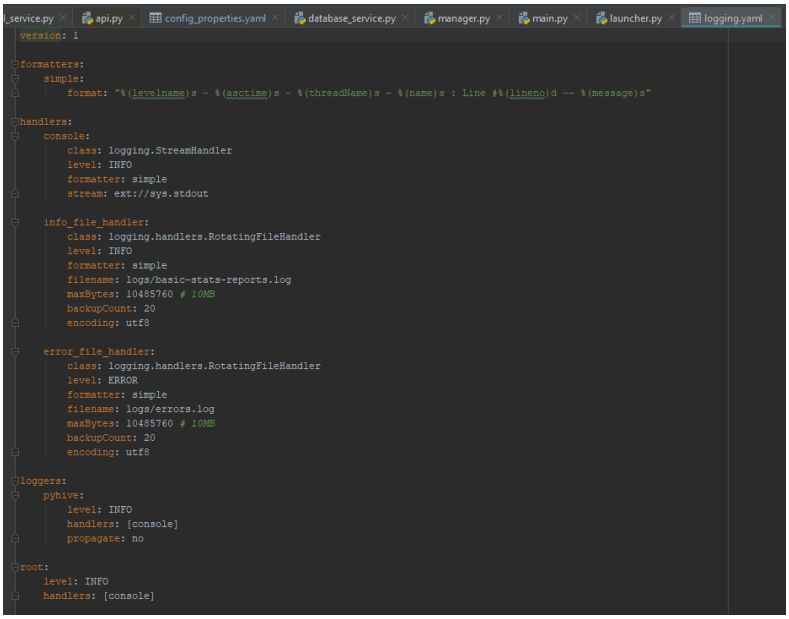
How it works:

1- the program will be setted up with all the incoming parameters (it will show a failure message if something is wrong)
2- will calculate the time it will have to stop working (using –exectime parameter)
3- Create the API service (set up the API connection)
4- Create the database service (connects to MySQL database settled on config file) and creates needed table if not exists
5- The program will start a loop that repeats the following steps:
   5.1- Update the data received from the API
   5.2- Stores data into MySQL (transforming one of the values from scientific notation into float)
   5.3- Calculates the difference between the time wasted updating and storing (using –reptime parameter)
   5.4- Wait the difference in seconds between time wasted and the expected new repetition.

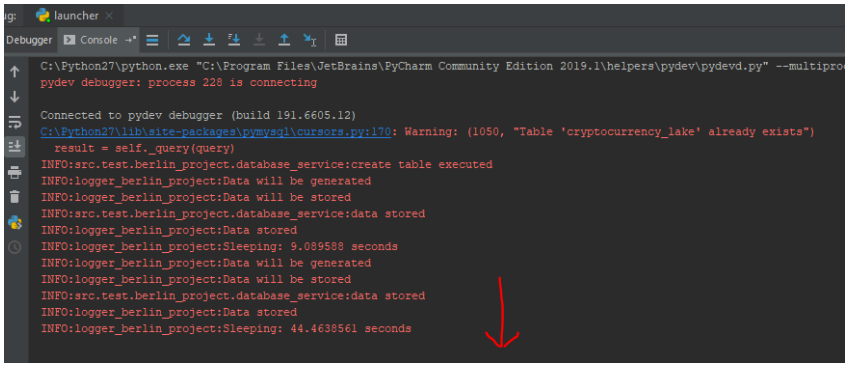
Set up:



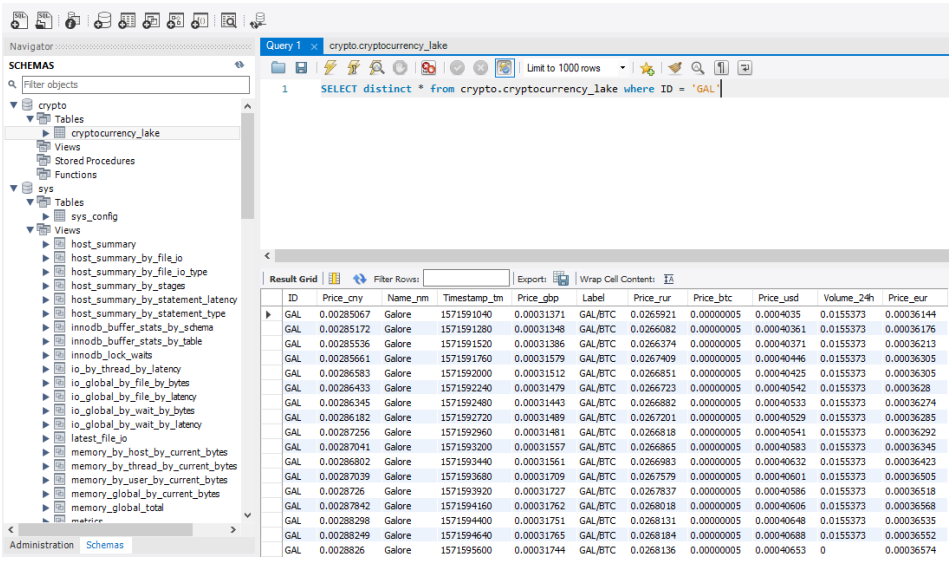
Logging:



Execution:



Output:


Navigator
SCHEMAS
Filter objects
crypto
Tables
cryptocurrency_lake
Views
Stored Procedures
Functions
sys
Tables
sys_config
Views
host_summary
host_summary_by_file_io
host_summary_by_file_io_type
host_summary_by_stages
host_summary_by_statement_latency
host_summary_by_statement_type
innodb_buffer_stats_by_schema
innodb_buffer_stats_by_table
innodb_lock_waits
io_by_thread_by_latency
io_global_by_file_by_bytes
io_global_by_file_by_latency
io_global_by_wait_by_bytes
io_global_by_wait_by_latency
latest_file_io
memory_by_host_by_current_bytes
memory_by_thread_by_current_bytes
memory_by_user_by_current_bytes
memory_global_by_current_bytes
memory_global_total
Administration
Schemas
Query 1
crypto.cryptocurrency_lake
Limit to 1000 rows
1 SELECT distinct * from crypto.cryptocurrency_lake where ID = 'GAL'
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
ID Price_cny Name_nm Timestamp_tm Price_gbp Label Price_rur Price_btc Price_usd Volume_24h Price_eur
GAL 0.00285067 Galore 1571591040 0.00031371 GAL/BTC 0.0265921 0.00000005 0.0004035 0.0155373 0.00036144
GAL 0.00285172 Galore 1571591280 0.00031348 GAL/BTC 0.0266082 0.00000005 0.00040361 0.0155373 0.00036176
GAL 0.00285536 Galore 1571591520 0.00031386 GAL/BTC 0.0266374 0.00000005 0.00040371 0.0155373 0.00036213
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GAL 0.00286182 Galore 1571592720 0.00031489 GAL/BTC 0.0267201 0.00000005 0.00040529 0.0155373 0.00036285
GAL 0.00287256 Galore 1571592960 0.00031481 GAL/BTC 0.0266818 0.00000005 0.00040541 0.0155373 0.00036292
GAL 0.00287041 Galore 1571593200 0.00031557 GAL/BTC 0.0266865 0.00000005 0.00040583 0.0155373 0.00036345
GAL 0.00286802 Galore 1571593440 0.00031561 GAL/BTC 0.0266983 0.00000005 0.00040632 0.0155373 0.00036423
GAL 0.00287039 Galore 1571593680 0.00031709 GAL/BTC 0.0267579 0.00000005 0.00040601 0.0155373 0.00036505
GAL 0.0028726 Galore 1571593920 0.00031727 GAL/BTC 0.0267837 0.00000005 0.00040586 0.0155373 0.00036518
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GAL 0.00288298 Galore 1571594400 0.00031751 GAL/BTC 0.0268131 0.00000005 0.00040648 0.0155373 0.00036535
GAL 0.00288249 Galore 1571594640 0.00031765 GAL/BTC 0.0268184 0.00000005 0.00040688 0.0155373 0.00036552
GAL 0.0028826 Galore 1571595600 0.00031744 GAL/BTC 0.0268136 0.00000005 0.00040653 0 0.00036574