

Structured Transformation Token

Transforms EtherScan Token Enriched data

- Input:
- Data Content:EtherScan Enriched Token Data
 - Data Type: Parquet
 - Data Destination: Processed Layer

- Output:
- Data Content:Token Balance Data
 - Data Type: Parquet
 - Data Destination: Structured Layer

** Notebook is simply for reference and only takes in a sample collection

```
from pyspark.sql.types import FloatType
from pyspark.sql.functions import format_number
from Azure_configs import processed_data_path, structured_data_path
import datetime
```

```
today=datetime.date.today().strftime('%m-%d-%y')
```

```
def Structured_transformation_token():

    EScan_token_DF=spark.read.parquet(f'{processed_data_path}/{today}/Token_Balance/NFT=**/')

    structured_token_DF=EScan_token_DF.select(\
        EScan_token_DF['owner_address'],\
        format_number(EScan_token_DF['token_balance']['Wrapped_eth'].cast(FloatType())/10**18,2).alias('WETH'),\
        format_number(EScan_token_DF['token_balance']['Usdc'].cast(FloatType())/10**6,2).alias('USDC'),\
        format_number(EScan_token_DF['token_balance']['Tether'].cast(FloatType())/10**6,2).alias('Tether')
    )

    structured_token_DF.show(10,truncate=False)
    structured_token_DF.write.mode('overwrite').parquet(f'{structured_data_path}/{today}/Token_Balance/')

    return
```

```
Structured_transformation_token()

+-----+-----+-----+
|owner_address|WETH|USDC|Tether|
+-----+-----+-----+
|0x040da2c464933005b6d1ffeccec7fb4025dc9ddb|0.00|0.00|0.00|
|0x04ae2f0bda04f1405991d91c2e8420d6148369ea|0.00|0.00|0.00|
|0x06e63138f3241a420829bc125e6cb6bebf88c2c2|0.00|0.00|0.00|
|0x0a8f4037729accb854da856431a87b8a264d8c40|0.00|0.00|0.00|
|0x1251122f1d77fa46e1e576c4fd6dd56ab17812ff|0.00|0.00|0.00|
|0x1db12c2a7c803567c9fd59a202504edf0e56ca78|0.00|0.00|0.00|
|0x22eab1c78521596f9d6d73dd878778009c39317c|0.00|0.00|208,952.52|
|0x266892ed0d40ea5c37f3e0239537999c13468311|0.00|0.00|0.00|
|0x2e675eeae4747c248bfddbafaa3a8a2fddaa44b|0.00|0.00|0.00|
|0x34669322bdfca9e801ca334e7b0e6d69d1f87137|0.00|0.00|1,542,262.75|
+-----+-----+-----+

only showing top 10 rows
```