

# Published Transformation NFT

Adds in data aggregations

- Input:
- Data Content: NFT Data
  - Data Type: Parquet
  - Data Destination: Structured Layer

- Output:
- Data Content: Final NFT Data
  - Data Type: Parquet
  - Data Destination: Published Layer

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

```
from pyspark.sql.functions import col, format_number
from Azure_configs import structured_data_path, published_data_path
import datetime
```

```
def Published_transformation_NFT():

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

    struct_nft_df=spark.read.parquet(f'{structured_data_path}{today}/NFT_Collection/')

    usd_val_df=struct_nft_df.withColumn('USD_Value_1', (struct_nft_df['payment_amt']*struct_nft_df['USD_Rate'])).orderBy(col('USD_Value_1').desc())
    Final_NFT_DF=usd_val_df.select('*') ,format_number(usd_val_df['USD_Value_1'].cast('float'),2).alias('USD_Value')).drop(col('USD_Value_1'))

    Final_NFT_DF.show(10,truncate=False)
    Final_NFT_DF.write.mode('overwrite').parquet(f'{published_data_path}{today}/Final_NFT/')

    return
```

Published\_transformation\_NFT()

NFT	token_id	num_sales	username	owner_address	txn_date	payment_amt	payment_type	USD_Rate	USD_Value
CryptoPunks	9998	4	0xef764bac8a438e7e498c2e5fcc0f174c3e3f8db	0xef764bac8a438e7e498c2e5fcc0f174c3e3f8db	2021-10-28 23:50:37	124457.06752488602	ETH	4288.22	533,699,296.00
CryptoPunks	4156	5	TheReal4156	0x4c1194386e121566b79d1f1dac9ef282348f04f3	2021-12-09 20:38:17	2500.0	ETH	4111.92	10,279,800.00
CryptoPunks	7804	2	null	0xf4b4a58974524e183c275f3c6ea895bc2368e738	2021-03-11 00:48:39	4200.0	ETH	1827.06	7,673,652.00
CryptoPunks	3100	2	null	0x7b8961f67382c51c389726667ef7dd7cf95fefdc3	2021-03-11 20:57:01	4200.0	ETH	1827.06	7,673,652.00
CryptoPunks	8857	2	null	0xdf37ac79f8e9b698c4ab57d30a41e7f272331391	2021-09-11 18:41:23	2000.0	ETH	3266.43	6,532,860.00
CryptoPunks	5217	2	-----	0xe301612b0751f6d862a27be205fb0e3c40c8c6db	2021-07-30 21:24:47	2250.0	ETH	2463.61	5,543,122.50
CryptoPunks	6275	2	null	0xbd4fd6759d77e3a3bcd4d838adbe41fd38829d8a	2021-09-04 21:39:01	1319.0	ETH	3887.01	5,126,966.00
CryptoPunks	7252	2	null	0x0a8f4037729accb854da856431a87b8a264d8c40	2021-08-24 06:34:02	1600.0	ETH	3172.57	5,076,112.00
CryptoPunks	2338	4	null	0x7cd3fc0e4ef95897f9b8db951dfc075cc924ebbe	2021-08-06 18:18:56	1500.0	ETH	2892.36	4,338,540.00
CryptoPunks	2140	3	GaryVee	0xd6a984153acb6c9e2d788f08c2465a1358bb89a7	2021-07-30 18:36:56	1600.0	ETH	2463.61	3,941,776.00

only showing top 10 rows