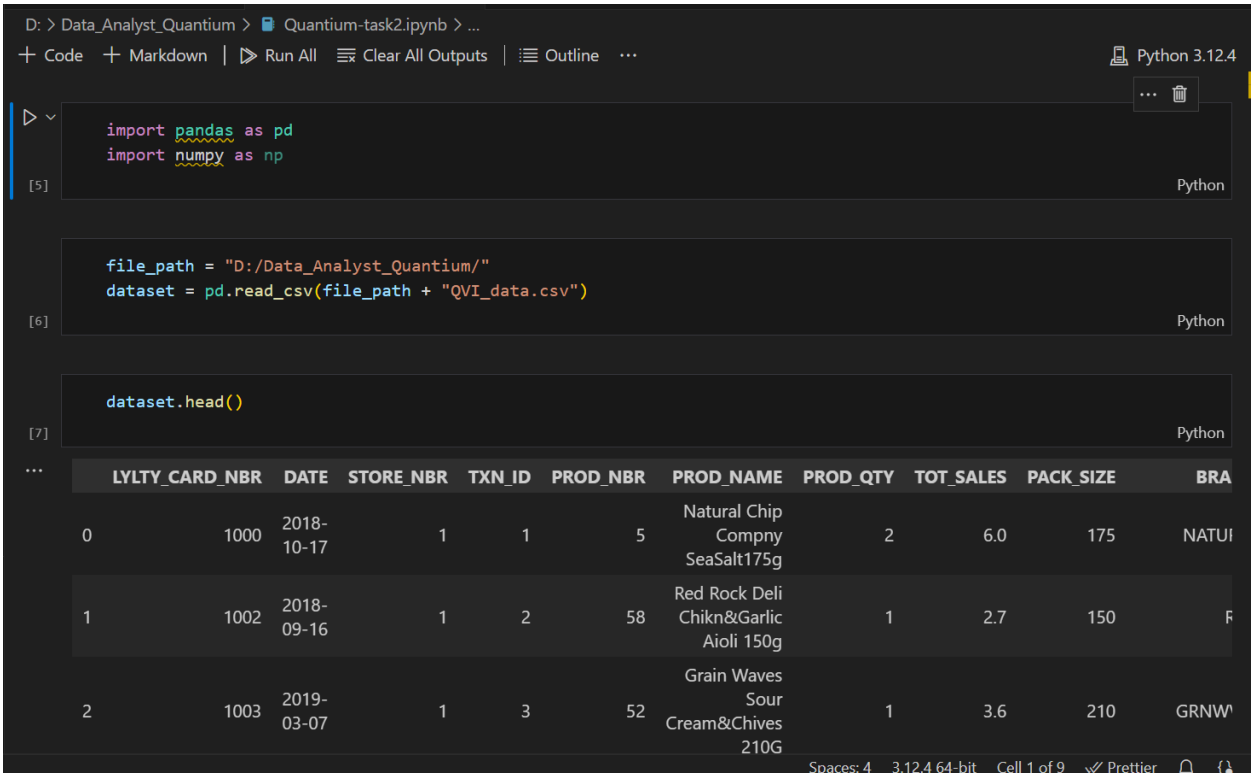
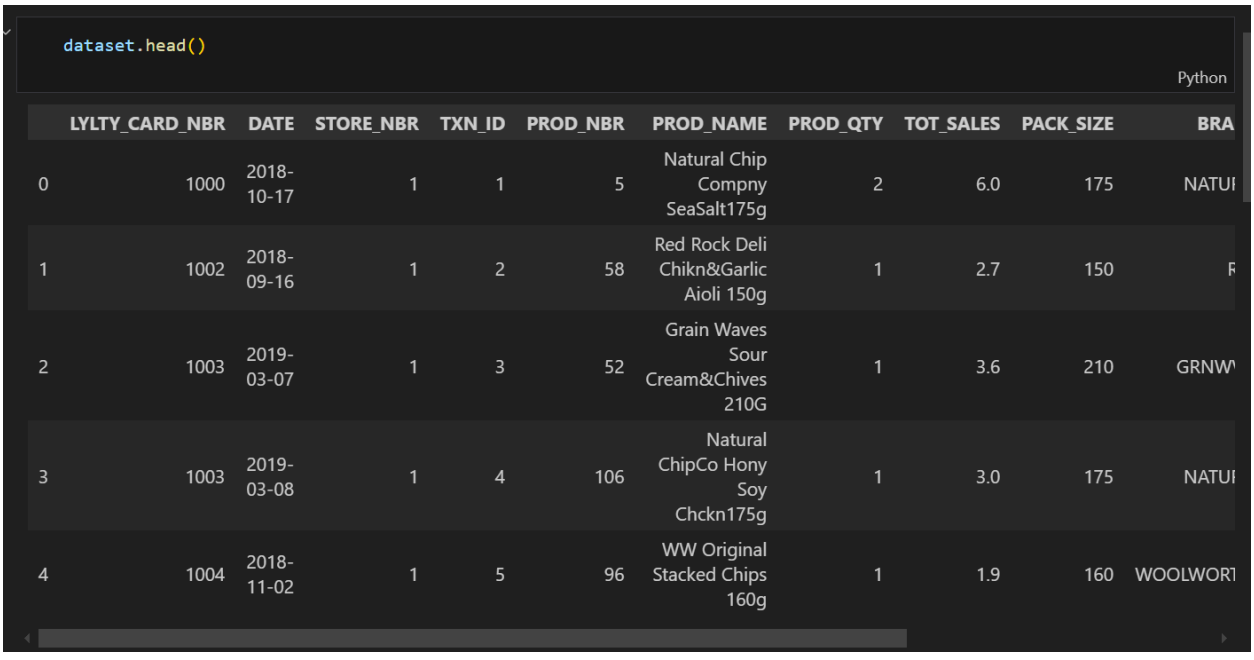
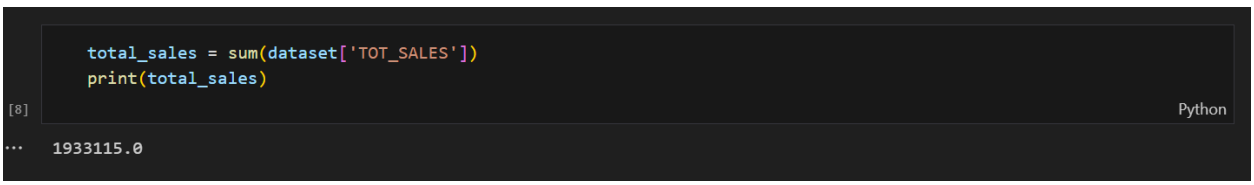

D: > Data_Analyst_Quantium > Quantium-task2.ipynb > ...
+ Code + Markdown | Run All Clear All Outputs | Outline ...
Python 3.12.4
import pandas as pd
import numpy as np
[5]
Python
file_path = "D:/Data_Analyst_Quantium/"
dataset = pd.read_csv(file_path + "QVI_data.csv")
[6]
Python
dataset.head()
[7]
Python
LYLTY_CARD_NBR DATE STORE_NBR TXN_ID PROD_NBR PROD_NAME PROD_QTY TOT_SALES PACK_SIZE BRA
0 1000 2018-10-17 1 1 5 Natural Chip Compny SeaSalt175g 2 6.0 175 NATUI
1 1002 2018-09-16 1 2 58 Red Rock Deli Chikn&Garlic Aioli 150g 1 2.7 150 R
2 1003 2019-03-07 1 3 52 Grain Waves Sour Cream&Chives 210G 1 3.6 210 GRNW
Spaces: 4 3.12.4 64-bit Cell 1 of 9 Prettier


dataset.head()
Python
LYLTY_CARD_NBR DATE STORE_NBR TXN_ID PROD_NBR PROD_NAME PROD_QTY TOT_SALES PACK_SIZE BRA
0 1000 2018-10-17 1 1 5 Natural Chip Compny SeaSalt175g 2 6.0 175 NATUI
1 1002 2018-09-16 1 2 58 Red Rock Deli Chikn&Garlic Aioli 150g 1 2.7 150 R
2 1003 2019-03-07 1 3 52 Grain Waves Sour Cream&Chives 210G 1 3.6 210 GRNW
3 1003 2019-03-08 1 4 106 Natural ChipCo Hony Soy Chckn175g 1 3.0 175 NATUI
4 1004 2018-11-02 1 5 96 WW Original Stacked Chips 160g 1 1.9 160 WOOLWORT


total_sales = sum(dataset['TOT_SALES'])
print(total_sales)
[8]
Python
1933115.0

```
#TOTAL NUMBER OF CUSTUMER
dataset.describe()
```

[11] Python

	LYLTY_CARD_NBR	STORE_NBR	TXN_ID	PROD_NBR	PROD_QTY	TOT_SALES	PACK_SIZE
count	2.648340e+05	264834.000000	2.648340e+05	264834.000000	264834.000000	264834.000000	264834.000000
mean	1.355488e+05	135.079423	1.351576e+05	56.583554	1.905813	7.299346	182.425512
std	8.057990e+04	76.784063	7.813292e+04	32.826444	0.343436	2.527241	64.325148
min	1.000000e+03	1.000000	1.000000e+00	1.000000	1.000000	1.500000	70.000000
25%	7.002100e+04	70.000000	6.760050e+04	28.000000	2.000000	5.400000	150.000000
50%	1.303570e+05	130.000000	1.351365e+05	56.000000	2.000000	7.400000	170.000000
75%	2.030940e+05	203.000000	2.026998e+05	85.000000	2.000000	9.200000	175.000000
max	2.373711e+06	272.000000	2.415841e+06	114.000000	5.000000	29.500000	380.000000

```
total_custumers = 2415841
```

[12] Python

```
#AVERAGE NUMBER OF TRANSACTION PER CUSTOMER
dataset.shape
```

[14] Python

```
(264834, 12)
```

```
total_custumers = 2415841
transactions = 264834
avg_transaction = total_custumers/transactions
print(avg_transaction)
```

[15] Python

```
9.122095350294902
```