```
from google.colab import files
uploaded= files.upload()
```

Choose Files QVI_data.csv

- **QVI_data.csv**(text/csv) - 29019945 bytes, last modified: 6/4/2025 - 100% done

```
Saving QVI_data.csv to QVI_data.csv
```

```
import pandas as pd
import numpy as np
```

```
dataset= pd.read_csv('/content/QVI_data.csv')
dataset
```

	LYLTY_CARD_NBR	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_NAME	PROD_QTY	TOT
0	1000	2018-10-17	1	1	5	Natural Chip Compny SeaSalt175g	2	
1	1002	2018-09-16	1	2	58	Red Rock Deli Chikn&Garlic Aioli 150g	1	
2	1003	2019-03-07	1	3	52	Grain Waves Sour Cream&Chives 210G	1	
3	1003	2019-03-08	1	4	106	Natural ChipCo Hony Soy Chckn175g	1	
4	1004	2018-11-02	1	5	96	WW Original Stacked Chips 160g	1	
...	...	...	...	...	...	...	...	...
264829	2370701	2018-12-08	88	240378	24	Grain Waves Sweet Chilli 210g	2	
264830	2370751	2018-10-01	88	240394	60	Kettle Tortilla ChpsFeta&Garlic 150g	2	
264831	2370961	2018-10-24	88	240480	70	Tyrrells Crisps Lightly Salted 165g	2	
264832	2370961	2018-10-27	88	240481	65	Old El Paso Salsa Dip Chnky Tom Ht300g	2	
264833	2373711	2018-12-14	88	241815	16	Smiths Crinkle Chips Salt & Vinegar 330g	2	

264834 rows × 12 columns

```
total_sales= sum(dataset['TOT_SALES'])
print(total_sales)
```

```
1933114.9999996515
```

```
dataset.describe()
```

	LYLTY_CARD_NBR	STORE_NBR	TXN_ID	PROD_NBR	PROD_QTY	TOT_
count	2.648340e+05	264834.000000	2.648340e+05	264834.000000	264834.000000	264834.0
mean	1.355488e+05	135.079423	1.351576e+05	56.583554	1.905813	7.2
std	8.057990e+04	76.784063	7.813292e+04	32.826444	0.343436	2.5
min	1.000000e+03	1.000000	1.000000e+00	1.000000	1.000000	1.5
25%	7.002100e+04	70.000000	6.760050e+04	28.000000	2.000000	5.4
50%	1.303570e+05	130.000000	1.351365e+05	56.000000	2.000000	7.4
75%	2.030940e+05	203.000000	2.026998e+05	85.000000	2.000000	9.2
max	2.373711e+06	272.000000	2.415841e+06	114.000000	5.000000	29.5

```
dataset.shape
```