```
1 import pandas as pd
2 import numpy as np

1 data=pd.read_csv('drive/MyDrive/QVI_data.csv')
1 data.head()
```

\Rightarrow		LYLTY_CARD_NBR	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_NAME	PROD_QTY	T0
_	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	

```
1 Total_sales= sum(data['TOT_SALES'])
1 print(Total_sales)
```

There is not any customer column in dataset but we can

yet customers by using transaction Id because the txn
id is unique for every individual

1 data.describe()

→ 1933114.9999996515



	LYLTY_CARD_NBR	STORE_NBR	TXN_ID	PROD_NBR	PROD_QTY	
count	2.648340e+05	264834.000000	2.648340e+05	264834.000000	264834.000000	264
mean	1.355488e+05	135.079423	1.351576e+05	56.583554	1.905813	
std	8.057990e+04	76.784063	7.813292e+04	32.826444	0.343436	
min	1.000000e+03	1.000000	1.000000e+00	1.000000	1.000000	
25%	7.002100e+04	70.000000	6.760050e+04	28.000000	2.000000	
50%	1.303570e+05	130.000000	1.351365e+05	56.000000	2.000000	
75%	2.030940e+05	203.000000	2.026998e+05	85.000000	2.000000	
max	2.373711e+06	272.000000	2.415841e+06	114.000000	5.000000	

1 Total_customers=241584

Total No of Transaction Per Customer

1 data.shape

(264834, 12)

1 avg_txn=Total_customers/264834

1 print(avg_txn)

→ 0.9122091574344684

1 Start coding or generate with AI.

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