


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

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


```
dataset.head()
```



	LYLTY_CARD_NBR	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_N
0	1000	2018-10-17	1	1	5	Natural C Com SeaSalt1
1	1002	2018-09-16	1	2	58	Red Rock I Chikn&Gz Aioli 1
2	1003	2019-03-07	1	3	52	Grain Wa S Cream&Chi 21
3	1003	2019-03-08	1	4	106	Nat ChipCo H : Chckn1
4	1004	2018-11-02	1	5	96	WW Orig Stacked Cf 1

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


```
print(total_sales)
```



1933114.9999996515

there is not any customer column in dataset but we can get customer by TX_ID because it is unique for every individual

```
dataset.describe()
```




	LYLTY_CARD_NBR	STORE_NBR	TXN_ID	PROD_NBR	
count	2.648340e+05	264834.000000	2.648340e+05	264834.000000	264834
mean	1.355488e+05	135.079423	1.351576e+05	56.583554	
std	8.057990e+04	76.784063	7.813292e+04	32.826444	
min	1.000000e+03	1.000000	1.000000e+00	1.000000	
25%	7.002100e+04	70.000000	6.760050e+04	28.000000	
50%	1.303570e+05	130.000000	1.351365e+05	56.000000	
75%	2.030940e+05	203.000000	2.026998e+05	85.000000	
max	2.373711e+06	272.000000	2.415841e+06	114.000000	

```
total_customers=241584
```

TOTAL NO OF TRANSACTION PER CUSTOMER

```
dataset.shape
```



(264834, 12)

NameError X



You

Please explain the error:

NameError: name 'Total_customer' is not defi





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Hypothesis

It seems like you have a typo in your variable name. You defined `total_customers` but are trying to use `Total_customer` in the calculation. Python is case-sensitive, so it doesn't recognize `Total_customer` as a defined variable.

Suggested Changes



```
avg_trns = total_customers / 264834 # Use
print(avg_trns)
```




[Use code with caution](#)

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```
avg_trns = total_customers/2648384 # Use the correct variable name 'total_c
print(avg_trns)
```

 0.09121940020782485

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