IMPORT REQUIRED LIBRARIES

In [1]:
```
import pandas as pd
import numpy as np
```

IMPORT THE FILES

In [6]:
```
file_path = "D:/Internship/Quantium/"
dataset = pd.read_csv(file_path + "QVI_data.csv")
```

In [7]:
```
dataset.head()
```

Out[7]:

	LYLTY_CARD_NBR	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_NAME	PROD_QT
0	1000	2018-10-17	1	1	5	Natural Chip Compny SeaSalt175g	
1	1002	2018-09-16	1	2	58	Red Rock Deli Chikn&Garlic Aioli 150g	
2	1003	2019-03-07	1	3	52	Grain Waves Sour Cream&Chives 210G	
3	1003	2019-03-08	1	4	106	Natural ChipCo Hony Soy Chckn175g	
4	1004	2018-11-02	1	5	96	WW Original Stacked Chips 160g	

LETS CALCULATE TOTAL SALES

In [9]:
```
total_sales = sum(dataset['TOT_SALES'])
print(total_sales)
```

```
1933115.0
```

TOTAL NUMBER OF CUSTOMER

In [11]:
```
dataset.describe()
```

Out[11]:

	LYLTY_CARD_NBR	STORE_NBR	TXN_ID	PROD_NBR	PROD_QTY	2
count	2.648340e+05	264834.000000	2.648340e+05	264834.000000	264834.000000	
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	

In [12]:
```
total_customer = 241584
```

AVERAGE NUMBER OF TRANSCATION PER CUSTOMER

In [13]:
```
dataset.shape
```

Out[13]: (264834, 12)

In [14]:
```
total_customers = 241584
transactions = 264834
avg_transaction = total_customer/transactions
print(avg_transaction)
```

```
0.9122091574344684
```

In [ ]: