IMPORT REQUIRED LIBRARIES

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

IMPORT THE FILES

In [5]:
```
#import dataset
file_path = "C:/Users/kinyu/Documents/DataAnalysisProjects/Quantium/"

dataset = pd.read_csv(file_path +"QVI_data.csv")
```

In [6]:
```
dataset.head()
```

Out[6]:

	LYLTY_CARD_NBR	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_NAME	PROD_QTY	TOT_SALES	PACK_SIZE	BRAND	LIFESTAGE	PREMIUM_CUSTOMER
0	1000	2018-10-17	1	1	5	Natural Chip Compny SeaSalt175g	2	6.0	175	NATURAL	YOUNG SINGLES/COUPLES	Premium
1	1002	2018-09-16	1	2	58	Red Rock Deli Chikn&Garlic Aioli 150g	1	2.7	150	RRD	YOUNG SINGLES/COUPLES	Mainstream
2	1003	2019-03-07	1	3	52	Grain Waves Sour Cream&Chives 210G	1	3.6	210	GRNWVES	YOUNG FAMILIES	Budget
3	1003	2019-03-08	1	4	106	Natural ChipCo Hony Soy Chckn175g	1	3.0	175	NATURAL	YOUNG FAMILIES	Budget
4	1004	2018-11-02	1	5	96	WW Original Stacked Chips 160g	1	1.9	160	WOOLWORTHS	OLDER SINGLES/COUPLES	Mainstream

TOTAL SALES

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

```
1933114.9999996515
```

TOTAL NUMBER OF CUSTOMERS

In [10]:
```
dataset.describe()
```

Out[10]:

	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_customers = 2415841AVERAGE NUMBER OF TRANSACTION PER CUSTOMER

In [11]:
```
dataset.shape
```

Out[11]:
```
(264834, 12)
```

In [13]:
```
total_customers = 2415841
transactions = 264834
avg_transaction = total_customers / transactions
print(avg_transaction)
```

```
9.122095350294902
```

In [ ]:
```

```