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<u>Forage Quantium Data Analytics Task 1</u>: Data Preparation and Customer Analytics

1. Importing the necessary dependencies

2 LYLTY CARD NBR 264836 non-null int64

3 TXN_ID 264836 non-null int64 4 PROD_NBR 264836 non-null int64 5 PROD_NAME 264836 non-null object

```
In [1]: import pandas as pd
  import numpy as np
  import matplotlib.pyplot as plt
  import plotly as plt
  import plotly.graph_objects as go
  import plotly.express as px
  import seaborn as sns
  from IPython.display import IFrame, display
```

2. Reading the datasets using the pandas module

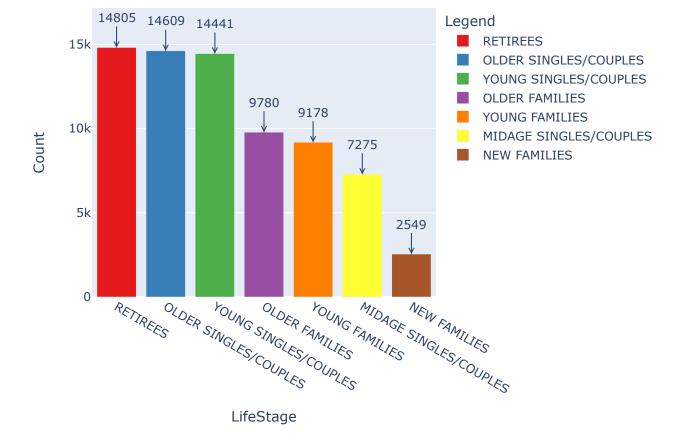
```
In [2]: pur_beh = pd.read_csv('QVI_purchase behaviour.csv')
        tran = pd.read excel('QVI transaction data.xlsx')
In [3]: pur_beh.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 72637 entries, 0 to 72636
        Data columns (total 3 columns):
        # Column Non-Null Count Dtype
        0 LYLTY_CARD_NBR 72637 non-null int64
1 LIFESTAGE 72637 non-null object
        2 PREMIUM CUSTOMER 72637 non-null object
        dtypes: int64(1), object(2)
       memory usage: 1.7+ MB
In [4]: tran.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 264836 entries, 0 to 264835
        Data columns (total 8 columns):
        # Column Non-Null Count Dtype
        0 DATE 264836 non-null int64
1 STORE_NBR 264836 non-null int64
```

```
6 PROD_QTY 264836 non-null int64
7 TOT_SALES 264836 non-null float64
dtypes: float64(1), int64(6), object(1)
memory usage: 16.2+ MB
```

From above we can infer that there are no Blank/NULL VALUES in both the datasets

3. Exploring the Purchase Behavior Dataset

```
In [5]: pur_beh.LIFESTAGE.value counts()
Out[5]: RETIREES 14805
OLDER SINGLES/COUPLES 14609
YOUNG SINGLES/COUPLES 14441
        OLDER FAMILIES
                                  9780
                                   9178
        YOUNG FAMILIES
        MIDAGE SINGLES/COUPLES 7275
        NEW FAMILIES
                                   2549
        Name: LIFESTAGE, dtype: int64
In [6]: pur_beh.PREMIUM_CUSTOMER.value counts()
Out[6]: Mainstream 29245
Budget 24470
        Premium
                     18922
        Name: PREMIUM CUSTOMER, dtype: int64
In [7]: lifestage_type_counts = pur_beh['LIFESTAGE'].value counts()
        # Define custom colors for each lifestage type
        colors = px.colors.qualitative.Set1[:len(lifestage type counts)]
        # Create a bar chart using Plotly Express with different colors
        fig = px.bar(
           x=lifestage type counts.index,
            y=lifestage type counts.values,
            labels={'y': 'Count', 'x': 'LifeStage'},
            color=lifestage type counts.index, # Use lifestage type as color
            color discrete map={ctype: color for ctype, color in zip(lifestage type counts.index
            title='Lifestage Type Distribution',
        for i, count in enumerate(lifestage type counts.values):
            fig.add annotation (
                x=lifestage type counts.index[i],
                y=count,
                text=str(count),
                showarrow=True,
                arrowhead=5,
                ax=0,
               ay = -30,
        # Add a legend
        fig.update layout(legend=dict(title=dict(text='Legend')))
        # Show the plot
        fig.show()
```

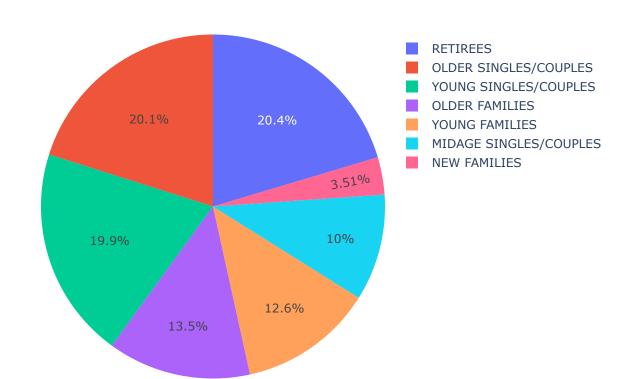


```
In [8]: labels = pur_beh['LIFESTAGE'].value_counts().index
values = pur_beh['LIFESTAGE'].value_counts().values
fig = go.Figure(data=[go.Pie(labels=labels, values=values)])

# Set layout properties
fig.update_layout(title='Pie Chart LifeStage')

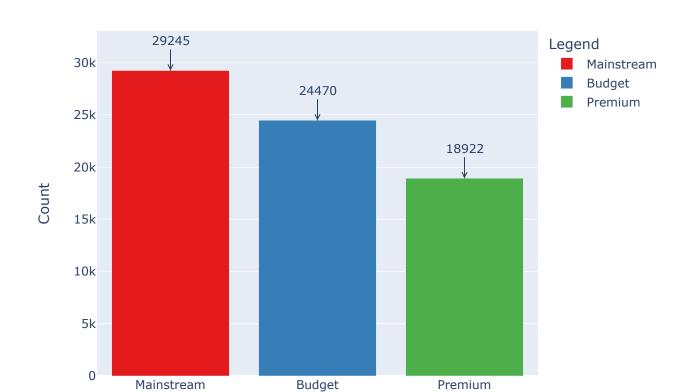
# Show the plot
fig.show()
```

Pie Chart LifeStage



```
In [9]: premium type counts = pur beh['PREMIUM CUSTOMER'].value counts()
        # Define custom colors for each premium type
        colors = px.colors.qualitative.Set1[:len(premium type counts)]
        # Create a bar chart using Plotly Express with different colors
        fig = px.bar(
            x=premium type counts.index,
            y=premium type counts.values,
            labels={'y': 'Count', 'x': 'Type of Customer'},
            color=premium type counts.index, # Use premium type as color
            color discrete map={ctype: color for ctype, color in zip(premium type counts.index,
            title='Customer Type Distribution',
        for i, count in enumerate(premium type counts.values):
            fig.add annotation (
                x=premium type counts.index[i],
                y=count,
                text=str(count),
                showarrow=True,
                arrowhead=5,
                ax=0,
                ay = -30,
        # Add a legend
        fig.update layout(legend=dict(title=dict(text='Legend')))
        # Show the plot
        fig.show()
```

Customer Type Distribution

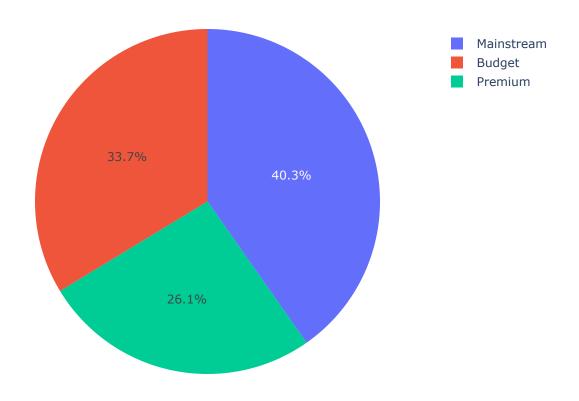


```
In [10]: labels = pur_beh['PREMIUM_CUSTOMER'].value_counts().index
    values = pur_beh['PREMIUM_CUSTOMER'].value_counts().values
    fig = go.Figure(data=[go.Pie(labels=labels, values=values)])

# Set layout properties
fig.update_layout(title='Pie Chart Customer Type')

# Show the plot
fig.show()
```

Pie Chart Customer Type



4. Exploring the Transactions Dataset

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

Out[11]:	DATE		STORE_NBR	LYLTY_CARD_NBR	TXN_ID	PROD_NBR	PROD_QTY	TOT_SALES
	count	264836.000000	264836.00000	2.648360e+05	2.648360e+05	264836.000000	264836.000000	264836.000000
	mean	43464.036260	135.08011	1.355495e+05	1.351583e+05	56.583157	1.907309	7.304200
	std	105.389282	76.78418	8.057998e+04	7.813303e+04	32.826638	0.643654	3.083226
	min	43282.000000	1.00000	1.000000e+03	1.000000e+00	1.000000	1.000000	1.500000
	25%	43373.000000	70.00000	7.002100e+04	6.760150e+04	28.000000	2.000000	5.40000(

50%	43464.000000	130.00000	1.303575e+05	1.351375e+05	56.000000	2.000000	7.400000
75 %	43555.000000	203.00000	2.030942e+05	2.027012e+05	85.000000	2.000000	9.200000
max	43646.000000	272.00000	2.373711e+06	2.415841e+06	114.000000	200.000000	650.000000

In [12]: tran

Out[12]:		DATE	STORE_NBR	LYLTY_CARD_NBR	TXN_ID	PROD_NBR	PROD_NAME	PROD_QTY	TOT_SALES
	0	43390	1	1000	1	5	Natural Chip Compny SeaSalt175g	2	6.0
	1	43599	1	1307	348	66	CCs Nacho Cheese 175g	3	6.3
	2	43605	1	1343	383	61	Smiths Crinkle Cut Chips Chicken 170g	2	2.9
	3	43329	2	2373	974	69	Smiths Chip Thinly S/Cream&Onion 175g	5	15.0
	4	43330	2	2426	1038	108	Kettle Tortilla ChpsHny&Jlpno Chili 150g	3	13.8
	264831	43533	272	272319	270088	89	Kettle Sweet Chilli And Sour Cream 175g	2	10.8
	264832	43325	272	272358	270154	74	Tostitos Splash Of Lime 175g	1	4.4
	264833	43410	272	272379	270187	51	Doritos Mexicana 170g	2	8.8
	264834	43461	272	272379	270188	42	Doritos Corn Chip Mexican Jalapeno 150g	2	7.8
	264835	43365	272	272380	270189	74	Tostitos Splash Of Lime 175g	2	8.8

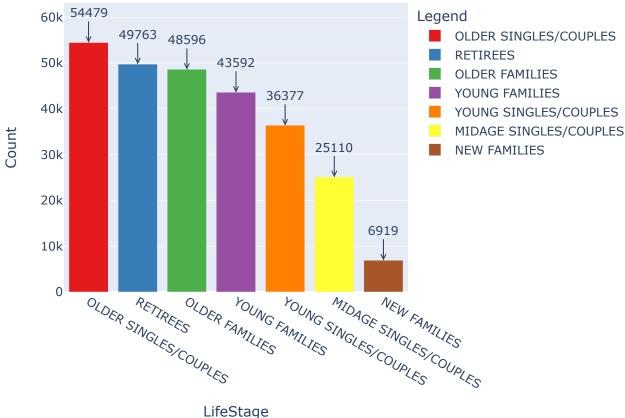
264836 rows × 8 columns

5. Combining both the datasets on basis of common column named 'LYLTY_CARD_NBR'

Column Non-Null Count Dtype

0 LYLTY CARD NBR 264836 non-null int64

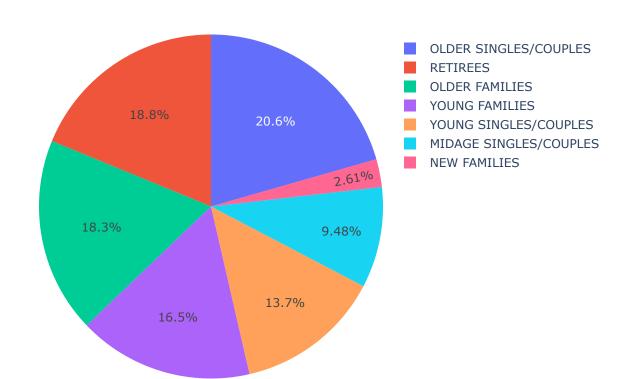
```
264836 non-null object
         1
            LIFESTAGE
         2 PREMIUM CUSTOMER 264836 non-null object
                   264836 non-null int64
         4 STORE_NBR
                            264836 non-null int64
                            264836 non-null int64
         5 TXN ID
         6 PROD NBR
                            264836 non-null int64
         7
           PROD NAME
                            264836 non-null object
                             264836 non-null int64
         8
           PROD QTY
           TOT SALES 264836 non-null float64
         9
        dtypes: float64(1), int64(6), object(3)
        memory usage: 22.2+ MB
In [15]: merged data.LIFESTAGE.value counts()
        OLDER SINGLES/COUPLES 54479
Out[15]:
       RETIREES
                               49763
        OLDER FAMILIES
                               48596
                               43592
        YOUNG FAMILIES
                              36377
        YOUNG SINGLES/COUPLES
        MIDAGE SINGLES/COUPLES 25110
        NEW FAMILIES
                                6919
       Name: LIFESTAGE, dtype: int64
In [16]: merged data.PREMIUM CUSTOMER.value counts()
       Mainstream 101988
Out[16]:
        Budget
                     93157
        Premium
                     69691
        Name: PREMIUM CUSTOMER, dtype: int64
In [17]: lifestage type counts = merged data['LIFESTAGE'].value counts()
        # Define custom colors for each lifestage type
        colors = px.colors.qualitative.Set1[:len(lifestage type counts)]
        # Create a bar chart using Plotly Express with different colors
        fig = px.bar(
           x=lifestage type counts.index,
            y=lifestage type counts.values,
            labels={'y': 'Count', 'x': 'LifeStage'},
            color=lifestage type counts.index, # Use lifestage type as color
            color discrete map={ctype: color for ctype, color in zip(lifestage type counts.index
            title='Merged Data Lifestage Type Distribution',
        for i, count in enumerate(lifestage type counts.values):
            fig.add annotation (
               x=lifestage type counts.index[i],
                y=count,
               text=str(count),
               showarrow=True,
               arrowhead=5,
               ax=0,
               ay = -30,
            )
        # Add a legend
        fig.update layout(legend=dict(title=dict(text='Legend')))
        # Show the plot
        fig.show()
```



```
LifeStage
```

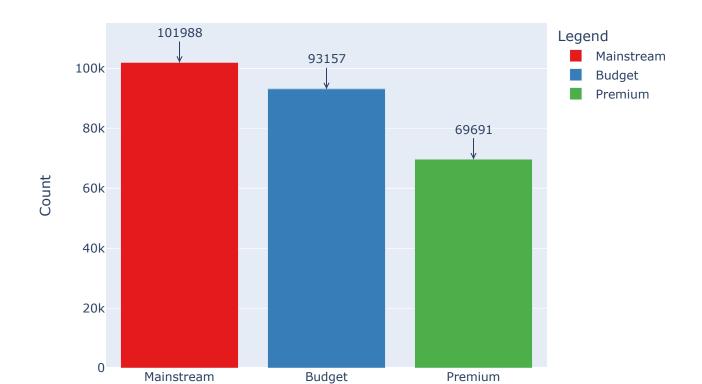
```
labels = merged data['LIFESTAGE'].value counts().index
In [18]:
         values = merged data['LIFESTAGE'].value counts().values
         fig = go.Figure(data=[go.Pie(labels=labels, values=values)])
         # Set layout properties
         fig.update layout(title='Pie Chart Merged Data LifeStage')
         # Show the plot
         fig.show()
```

Pie Chart Merged Data LifeStage



```
In [19]: premium_type_counts = merged_data['PREMIUM CUSTOMER'].value counts()
         # Define custom colors for each premium type
         colors = px.colors.qualitative.Set1[:len(premium type counts)]
         # Create a bar chart using Plotly Express with different colors
         fig = px.bar(
             x=premium type counts.index,
             y=premium type counts.values,
             labels={'y': 'Count', 'x': 'Type of Customer'},
             color=premium type counts.index, # Use premium type as color
             color discrete map={ctype: color for ctype, color in zip(premium type counts.index,
             title='Merged Data Customer Type Distribution',
         for i, count in enumerate(premium type counts.values):
             fig.add annotation (
                 x=premium type counts.index[i],
                 y=count,
                 text=str(count),
                 showarrow=True,
                 arrowhead=5,
                 ax=0,
                ay = -30,
         # Add a legend
         fig.update layout(legend=dict(title=dict(text='Legend')))
         # Show the plot
         fig.show()
```

Merged Data Customer Type Distribution



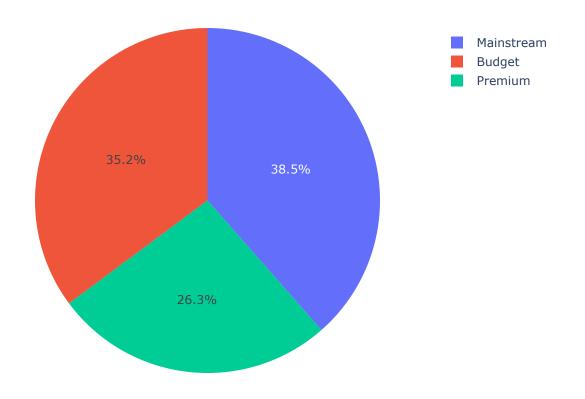
Type of Customer

```
In [20]: labels = merged_data['PREMIUM_CUSTOMER'].value_counts().index
    values = merged_data['PREMIUM_CUSTOMER'].value_counts().values
    fig = go.Figure(data=[go.Pie(labels=labels, values=values)])

# Set layout properties
    fig.update_layout(title='Pie Chart Merged Data Customer Type')

# Show the plot
    fig.show()
```

Pie Chart Merged Data Customer Type



```
In [21]: #Formating the DATE COLUMN from Microsoft Excel format to Normal Format
    merged_data['DATE_NRML'] = pd.to_datetime(merged_data['DATE'], origin='1900-01-01', unit

In [22]: #Extracting Year from DATE_NRML column
    merged_data['Year'] = merged_data['DATE_NRML'].dt.year

In [23]: #Extracting Month_name from DATE_NRML column
    merged_data['Month_Name'] = merged_data['DATE_NRML'].dt.strftime('%B')

In [24]: #Extracting Month_name and Year from DATE_NRML column
    merged_data['Month_Year'] = merged_data['DATE_NRML'].dt.strftime('%B %Y')

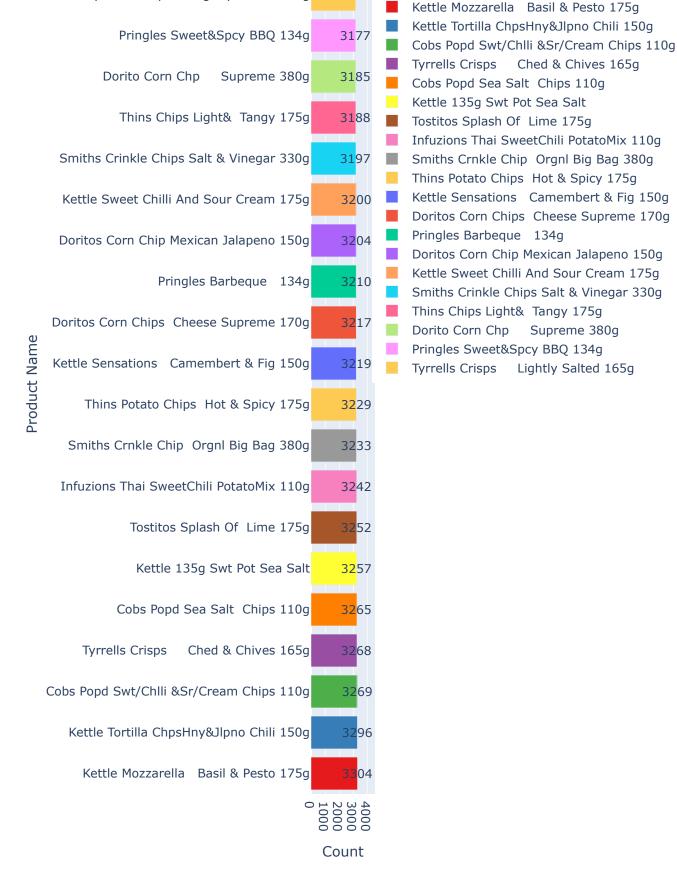
In [25]: #Extracting Week Number from DATE_NRML column
    merged_data['Week Number'] = merged_data['DATE_NRML'].dt.isocalendar().week
```

```
##Extracting Quater from DATE NRML column
In [26]:
          merged data['Quarter'] = merged data['DATE NRML'].dt.quarter
          #Extracting Quater and Year from DATE NRML column
In [27]:
          merged data['Quarter Year'] = merged data['DATE NRML'].dt.to period('Q')
          #Extracting WEEKDAY from DATE NRML column
In [28]:
          merged data['Weekday'] = merged data['DATE NRML'].dt.day name()
          merged data.head(10)
In [29]:
             LYLTY_CARD_NBR
                                   LIFESTAGE PREMIUM_CUSTOMER DATE STORE_NBR TXN_ID PROD_NBR
                                                                                                           PRO
Out[29]:
                                                                                                            Nat
                                      YOUNG
                                                                                                    5
          0
                       1000
                                                         Premium 43390
                             SINGLES/COUPLES
                                                                                                            Sea
                                                                                                           Red
                                      YOUNG
                                                                                         2
                       1002
                                                       Mainstream 43359
                                                                                                    58
                                                                                                        Chikn&G
                             SINGLES/COUPLES
                                                                                                        Grain Wa
                                                                                         3
          2
                       1003
                              YOUNG FAMILIES
                                                          Budget 43531
                                                                                                    52
                                                                                                          Crean
                                                                                                          Natura
          3
                       1003
                              YOUNG FAMILIES
                                                          Budget 43532
                                                                                                   106
                                                                                                             Cł
                                                                                                            WW
                                      OLDER
                                                                                         5
          4
                                                       Mainstream 43406
                                                                                                    96
                                                                                                           Stack
                             SINGLES/COUPLES
                                     MIDAGE
                                                                                                           Chee
          5
                       1005
                                                       Mainstream 43462
                                                                                                    86
                             SINGLES/COUPLES
                                      YOUNG
                                                                                         7
                                                                                                       SourCrear
          6
                       1007
                                                          Budget 43438
                                                                                 1
                                                                                                    49
                             SINGLES/COUPLES
                                                                                                          Veg St
                                      YOUNG
                                                                                                         RRD SR
          7
                                                                                                    10
                       1007
                                                          Budget 43439
                                                                                         8
                             SINGLES/COUPLES
                                                                                                          Pork B
                                                                                                          Dorito
          8
                       1009
                                NEW FAMILIES
                                                         Premium 43424
                                                                                         9
                                                                                                    20
                                                                                                          Supre
                                      YOUNG
                                                                                                        Doritos I
          9
                                                                                        10
                                                                                                    51
                       1010
                                                       Mainstream 43352
                             SINGLES/COUPLES
          merged data.to csv('Merged data.csv')
In [30]:
          #Saving the merged Dataset
          merged data.head(10)
In [31]:
Out[31]:
             LYLTY_CARD_NBR
                                   LIFESTAGE PREMIUM_CUSTOMER DATE STORE_NBR TXN_ID PROD_NBR
                                                                                                           PRO
                                                                                                            Nat
                                      YOUNG
                                                                                                    5
          0
                       1000
                                                         Premium 43390
                             SINGLES/COUPLES
                                                                                                            Sea
                                                                                                           Red
                                      YOUNG
                                                                                         2
          1
                       1002
                                                                                                    58
                                                                                                        Chikn&G
                                                       Mainstream 43359
                             SINGLES/COUPLES
          2
                       1003
                              YOUNG FAMILIES
                                                                                         3
                                                                                                    52
                                                          Budget 43531
                                                                                 1
                                                                                                        Grain Wa
```

Crean

```
counts = merged data.PROD NAME.value counts().head(20)
In [32]:
         colors = px.colors.qualitative.Set1[:len(counts)]
         # Create a bar chart using Plotly Express with different colors
         fig = px.bar(
            y=counts.index,
            x=counts.values,
            orientation='h',
            labels={'x': 'Count', 'y':'Product Name'},
             color=counts.index,
             color discrete map={ctype: color for ctype, color in zip(counts.index, colors)},
             title='Top - 20 Product Names (Ascending Order)',
         for i, count in enumerate(counts.values):
             fig.add annotation (
                y=counts.index[i],
                 x=count,
                text=str(count),
                 showarrow=False,
                arrowhead=5,
                 ax=0,
                ay = -30,
             )
         # Add a legend
         fig.update layout(legend=dict(title=dict(text='Legend')), height = 1000)
         # Show the plot
         fig.show()
```

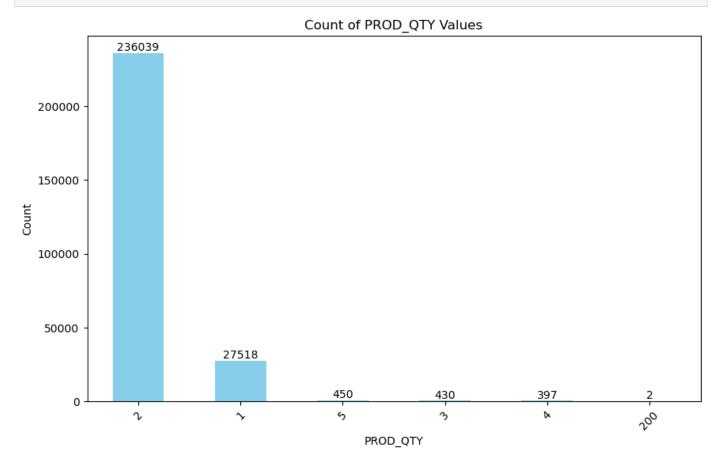
Top - 20 Product Names (Ascending Order)



```
In [34]: import matplotlib.pyplot as plt
    prod_qty_counts = merged_data['PROD_QTY'].value_counts()

# Plotting the counts
    plt.figure(figsize=(10, 6))
    ax = prod_qty_counts.plot(kind='bar', color='skyblue')
    plt.title('Count of PROD_QTY Values')
    plt.xlabel('PROD_QTY')
    plt.ylabel('PROD_QTY')
    plt.ylabel('Count')
    plt.xticks(rotation=45)
    for i, count in enumerate(prod_qty_counts):
        ax.text(i, count + 0.1, str(count), ha='center', va='bottom')

# Display the plot
    plt.show()
```

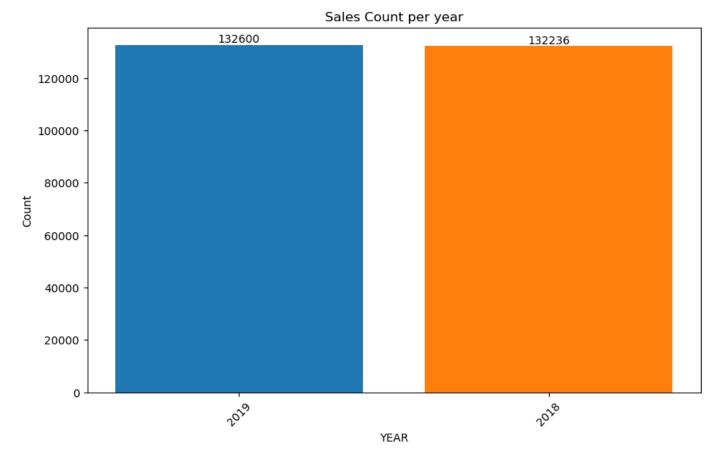


In [35]:	merged_data	.head	(5)						
Out[35]:	LYLTY_CARD	_NBR	LIFESTAGE	PREMIUM_CUSTOMER	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_N
	0	1000	YOUNG SINGLES/COUPLES	Premium	43390	1	1	5	Natural Cor SeaSalt
	1	1002	YOUNG SINGLES/COUPLES	Mainstream	43359	1	2	58	Red Rock Chikn&(Aioli
	2	1003	YOUNG FAMILIES	Budget	43531	1	3	52	Grain V Cream&C
	3	1003	YOUNG FAMILIES	Budget	43532	1	4	106	Na ChipCo Chckn

```
OLDER SINGLES/COUPLES WWW Ori 5 96 Stacked (
```

```
In [36]: merged_data.Year.value_counts()
         2019
                 132600
Out[36]:
         2018
                 132236
         Name: Year, dtype: int64
In [37]: counts = merged_data['Year'].value counts()
         # Plotting the counts
         plt.figure(figsize=(10, 6))
         for i, (value, count) in enumerate(counts.items()):
             plt.bar(i, count)
             plt.text(i, count + 0.1, str(count), ha='center', va='bottom')
         plt.title('Sales Count per year')
         plt.xlabel('YEAR')
         plt.ylabel('Count')
         plt.xticks(range(len(counts)), counts.index, rotation=45)
         # Display the plot
         plt.show()
```

1004



```
November 2018 21798
June 2019 21797
April 2019 21727
September 2018 21673
July 2018 21082
February 2019 20412
July 2019 1489
Name: Month Year, dtype: int64
```

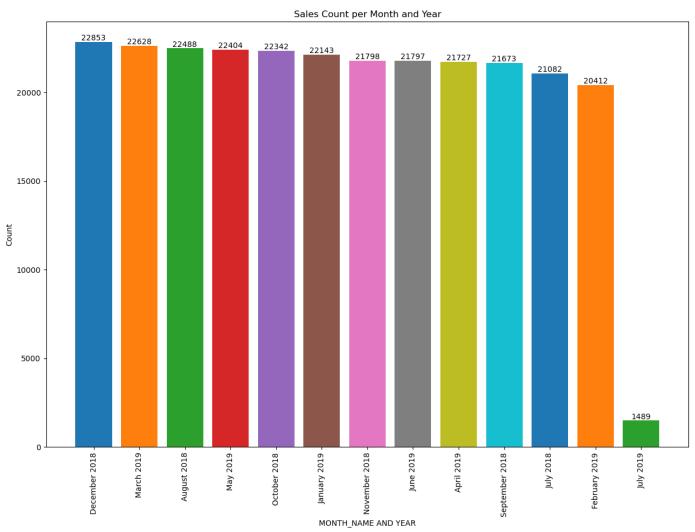
```
In [39]: counts = merged_data['Month_Year'].value_counts()

# Plotting the counts
plt.figure(figsize=(15, 10))

for i, (value, count) in enumerate(counts.items()):
    plt.bar(i, count)
    plt.text(i, count + 0.1, str(count), ha='center', va='bottom')

plt.title('Sales Count per Month and Year')
plt.xlabel('MONTH_NAME AND YEAR')
plt.ylabel('Count')
plt.xticks(range(len(counts)), counts.index, rotation=90)

# Display the plot
plt.show()
```



```
In [40]: merged_data['Quarter_Year'].value_counts()

Out[40]: 2018Q4 66993
    2019Q2 65928
    2018Q3 65243
    2019Q1 65183
```

```
2019Q3 1489
Freq: Q-DEC, Name: Quarter Year, dtype: int64
```

```
In [41]: counts = merged_data['Quarter_Year'].value_counts()

# Plotting the counts
plt.figure(figsize=(10, 6))

for i, (value, count) in enumerate(counts.items()):
    plt.bar(i, count)
    plt.text(i, count + 0.1, str(count), ha='center', va='bottom')

plt.title('Sales Count per Quarter and Year')
plt.xlabel('Quarter and Year')
plt.ylabel('Count')
plt.xticks(range(len(counts)), counts.index, rotation=45)

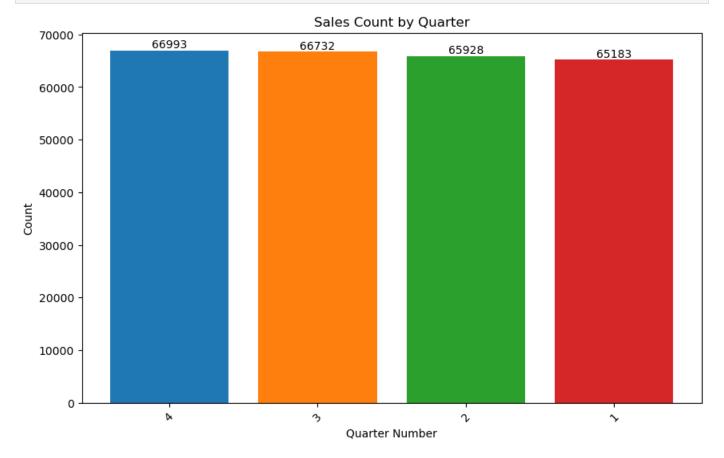
# Display the plot
plt.show()
```

Sales Count per Quarter and Year 70000 66993 65928 65243 65183 60000 50000 40000 30000 20000 10000 1489 0 201902 Quarter and Year

```
merged data['Quarter'].value counts()
In [42]:
              66993
Out[42]:
         3
              66732
         2
              65928
              65183
         1
        Name: Quarter, dtype: int64
In [43]: counts = merged data['Quarter'].value counts()
         # Plotting the counts
         plt.figure(figsize=(10, 6))
         for i, (value, count) in enumerate(counts.items()):
             plt.bar(i, count)
             plt.text(i, count + 0.1, str(count), ha='center', va='bottom')
```

```
plt.title('Sales Count by Quarter')
plt.xlabel('Quarter Number')
plt.ylabel('Count')
plt.xticks(range(len(counts)), counts.index, rotation=45)

# Display the plot
plt.show()
```



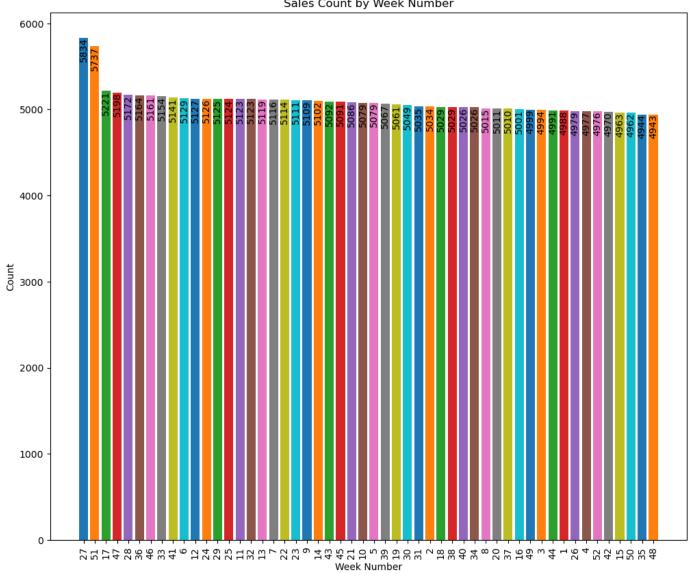
```
In [44]: counts = merged_data['Week_Number'].value_counts()

# Plotting the counts
plt.figure(figsize=(12, 10))

for i, (value, count) in enumerate(counts.items()):
    plt.bar(i, count)
    plt.text(i, count + 0.1, str(count), ha='center', va='top', rotation = 90)

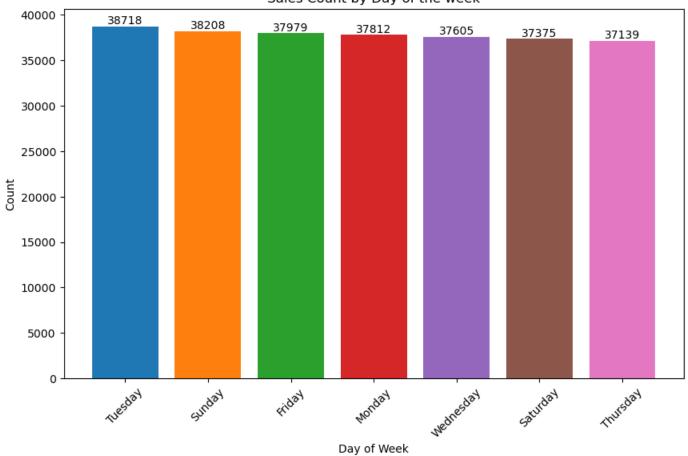
plt.title('Sales Count by Week Number')
plt.xlabel('Week Number')
plt.ylabel('Count')
plt.ylabel('Count')
plt.xticks(range(len(counts)), counts.index, rotation=90)

# Display the plot
plt.show()
```



```
In [45]:
         merged data['Weekday'].value counts()
                      38718
         Tuesday
Out[45]:
         Sunday
                      38208
         Friday
                      37979
         Monday
                      37812
         Wednesday
                      37605
         Saturday
                      37375
         Thursday
                      37139
         Name: Weekday, dtype: int64
In [46]: counts = merged data['Weekday'].value counts()
         # Plotting the counts
         plt.figure(figsize=(10, 6))
         for i, (value, count) in enumerate(counts.items()):
             plt.bar(i, count)
             plt.text(i, count + 0.1, str(count), ha='center', va='bottom')
         plt.title('Sales Count by Day of the week')
         plt.xlabel('Day of Week')
         plt.ylabel('Count')
         plt.xticks(range(len(counts)), counts.index, rotation=45)
         # Display the plot
         plt.show()
```

Sales Count by Day of the week



```
In [47]: merged_data.info()
```

<class 'pandas.core.frame.DataFrame'>
Int64Index: 264836 entries, 0 to 264835
Data columns (total 18 columns):

#	Column	Non-Null Count	Dtype
0	LYLTY_CARD_NBR	264836 non-null	int64
1	LIFESTAGE	264836 non-null	object
2	PREMIUM CUSTOMER	264836 non-null	object
3	DATE	264836 non-null	int64
4	STORE_NBR	264836 non-null	int64
5	TXN_ID	264836 non-null	int64
6	PROD_NBR	264836 non-null	int64
7	PROD_NAME	264836 non-null	object
8	PROD_QTY	264836 non-null	int64
9	TOT_SALES	264836 non-null	float64
10	DATE_NRML	264836 non-null	datetime64[ns]
11	Year	264836 non-null	int64
12	Month_Name	264836 non-null	object
13	Month_Year	264836 non-null	object
14	Week_Number	264836 non-null	UInt32
15	Quarter	264836 non-null	int64
16	Quarter_Year	264836 non-null	period[Q-DEC]
17	Weekday	264836 non-null	object
7.1	TTT (00 (1)) 1 (C7

dtypes: UInt32(1), datetime64[ns](1), float64(1), int64(8), object(6), period[Q-DEC](1) memory usage: 37.6+ MB

```
In [48]: plt.figure(figsize=(15, 10))
    sns.heatmap(merged_data.corr(), annot=True)
```

Out[48]: <AxesSubplot:>



In [49]:	merged_data.head()							
Out[49]:	LYLTY_CARD_NBR	LIFESTAGE	PREMIUM_CUSTOMER	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_N
	0 1000	YOUNG SINGLES/COUPLES	Premium	43390	1	1	5	Natural Cor SeaSalt
	1 1002	YOUNG SINGLES/COUPLES	Mainstream	43359	1	2	58	Red Rock Chikn&(Aioli
	2 1003	YOUNG FAMILIES	Budget	43531	1	3	52	Grain W Cream&C
	3 1003	YOUNG FAMILIES	Budget	43532	1	4	106	Na ChipCo Chckn
	4 1004	OLDER SINGLES/COUPLES	Mainstream	43406	1	5	96	WW Ori Stacked (

For Further Analytics using PowerBI Please visit the below link

https://github.com/ADVAIT135/Forage_Quantium_Data_Analytics/blob/9c7d7e526c50be18112ace275b371aedf3