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Forage Quantum Data Analytics Task 1 : Data Preparation and Customer Analytics

1. Importing the necessary dependencies

```
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
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
```

```

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
        YOUNG FAMILIES          9178
        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)]

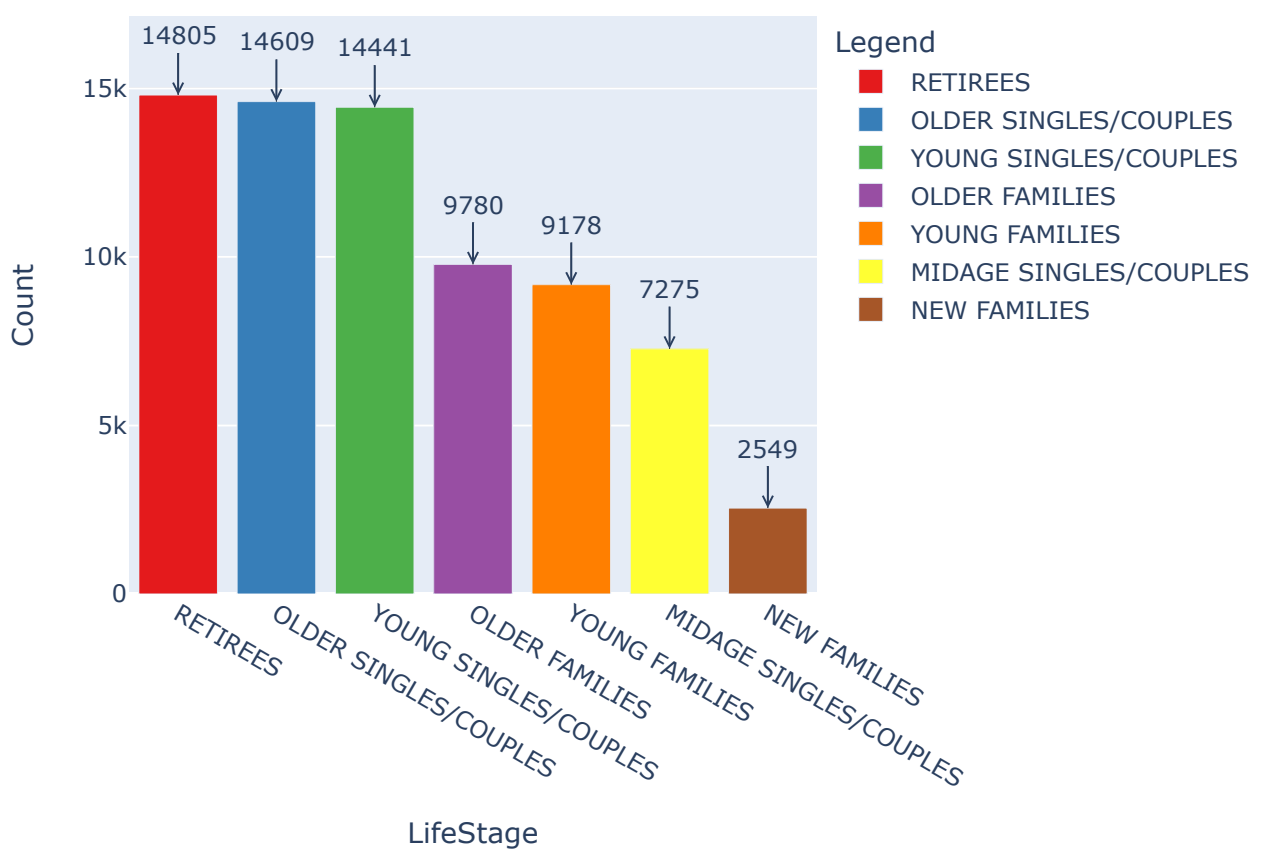
# Create a bar chart using Plotly Express with different colors
fig = px.bar(
    x=lifestage_type_counts.index,
    y=lifestage_type_counts.values,
    labels={'y': 'Count', 'x': 'LifeStage'},
    color=lifestage_type_counts.index, # Use lifestage type as color
    color_discrete_map={ctype: color for ctype, color in zip(lifestage_type_counts.index,
                                                                colors)},
    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()
```

Lifestage Type Distribution

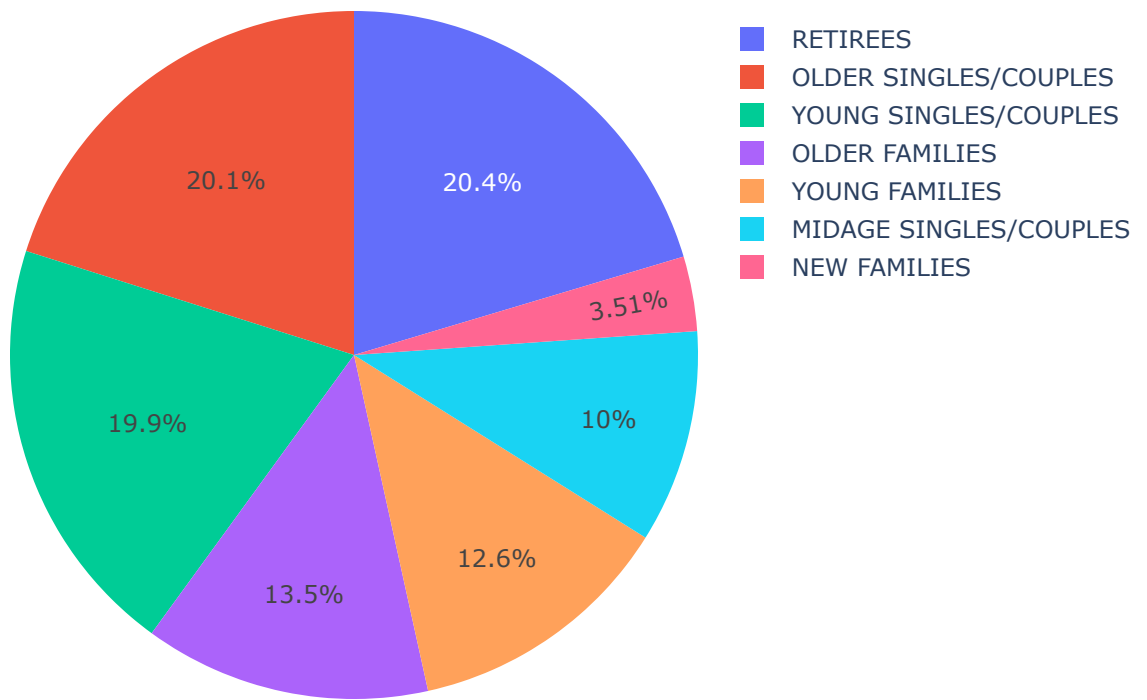


```
In [8]: labels = pur_beh['LIFESTAGE'].value_counts().index
values = pur_beh['LIFESTAGE'].value_counts().values
fig = go.Figure(data=[go.Pie(labels=labels, values=values)])

# 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)]

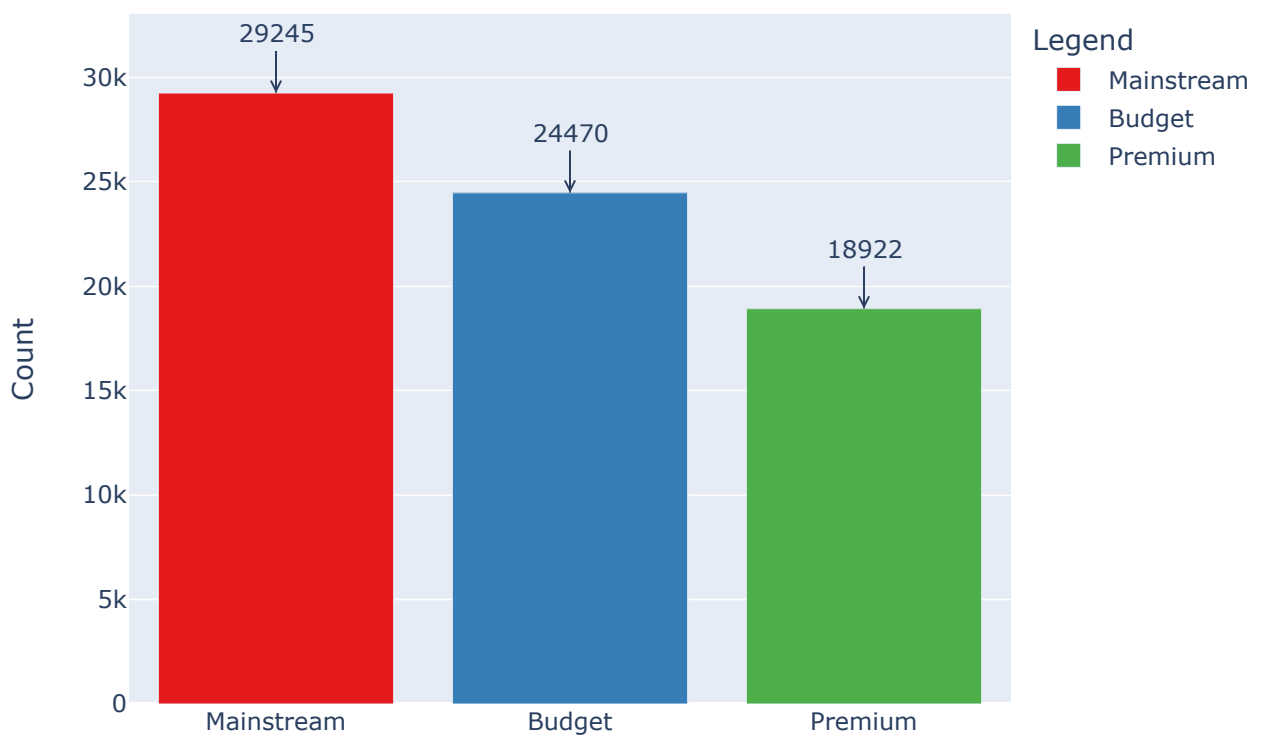
# Create a bar chart using Plotly Express with different colors
fig = px.bar(
    x=premium_type_counts.index,
    y=premium_type_counts.values,
    labels={'y': 'Count', 'x': 'Type of Customer'},
    color=premium_type_counts.index, # Use premium type as color
    color_discrete_map={ctype: color for 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



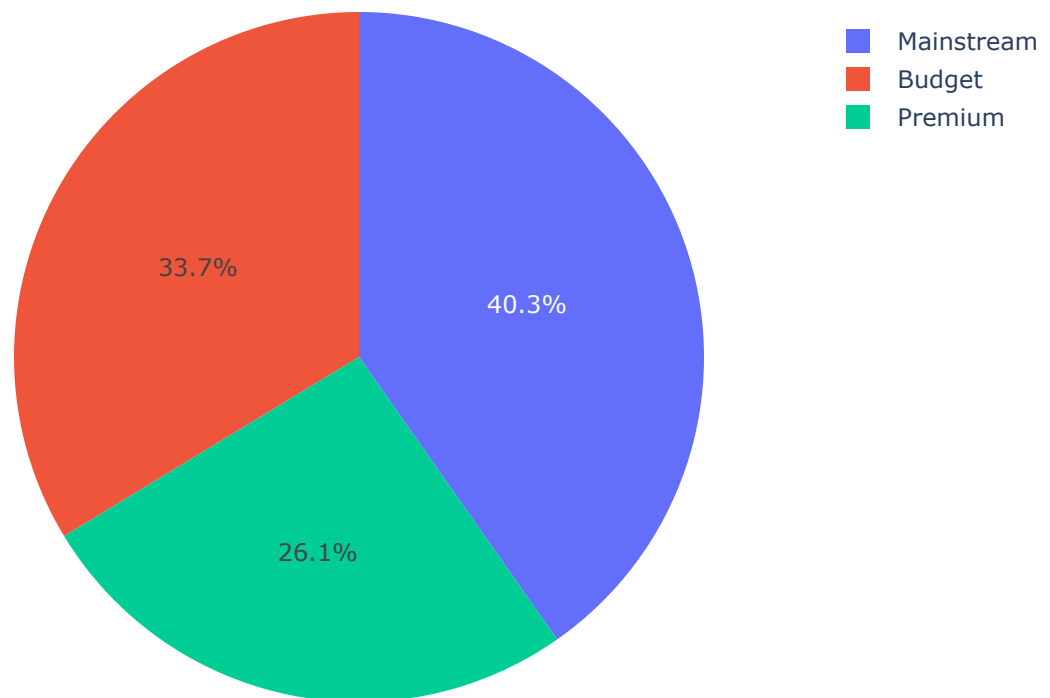
Type of Customer

```
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_SALE\$
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	3.083220
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	5.400000

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'

```
In [13]: merged_data = pd.merge(pur_beh, tran, on='LYLTY_CARD_NBR', how='inner')
```

```
In [14]: merged_data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 264836 entries, 0 to 264835
Data columns (total 10 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
dtypes: float64(1), int64(6), object(3)
memory usage: 22.2+ MB

```

```
In [15]: merged_data.LIFESTAGE.value_counts()
```

```

Out[15]: OLDER SINGLES/COUPLES    54479
          RETIREES              49763
          OLDER FAMILIES        48596
          YOUNG FAMILIES        43592
          YOUNG SINGLES/COUPLES  36377
          MIDAGE SINGLES/COUPLES 25110
          NEW FAMILIES          6919
Name: LIFESTAGE, dtype: int64

```

```
In [16]: merged_data.PREMIUM_CUSTOMER.value_counts()
```

```

Out[16]: Mainstream    101988
          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,
                                                                colors)},
    title='Merged Data Lifestage Type Distribution',
)

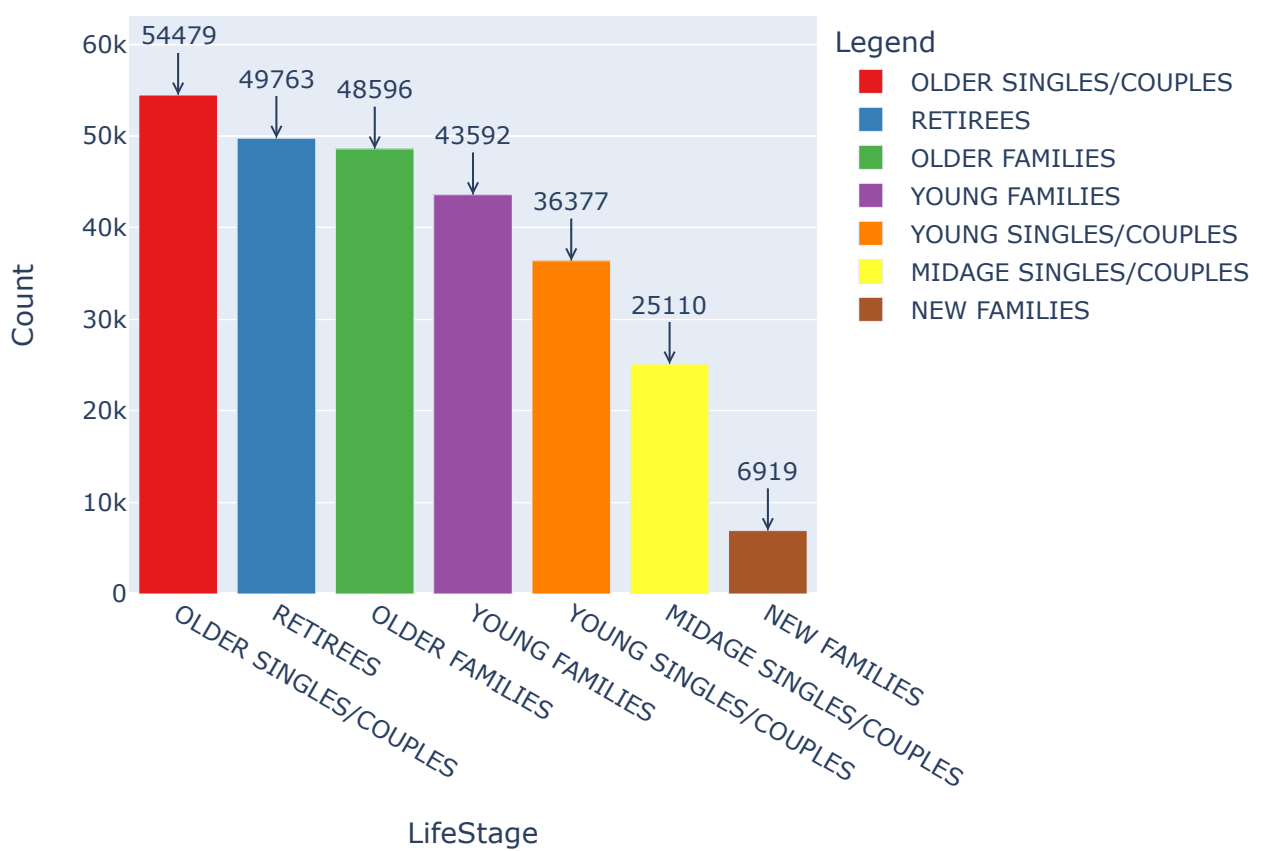
for i, count in enumerate(lifestage_type_counts.values):
    fig.add_annotation(
        x=lifestage_type_counts.index[i],
        y=count,
        text=str(count),
        showarrow=True,
        arrowhead=5,
        ax=0,
        ay=-30,
    )

# Add a legend
fig.update_layout(legend=dict(title=dict(text='Legend'))))

# Show the plot
fig.show()

```

Merged Data Lifestage Type Distribution

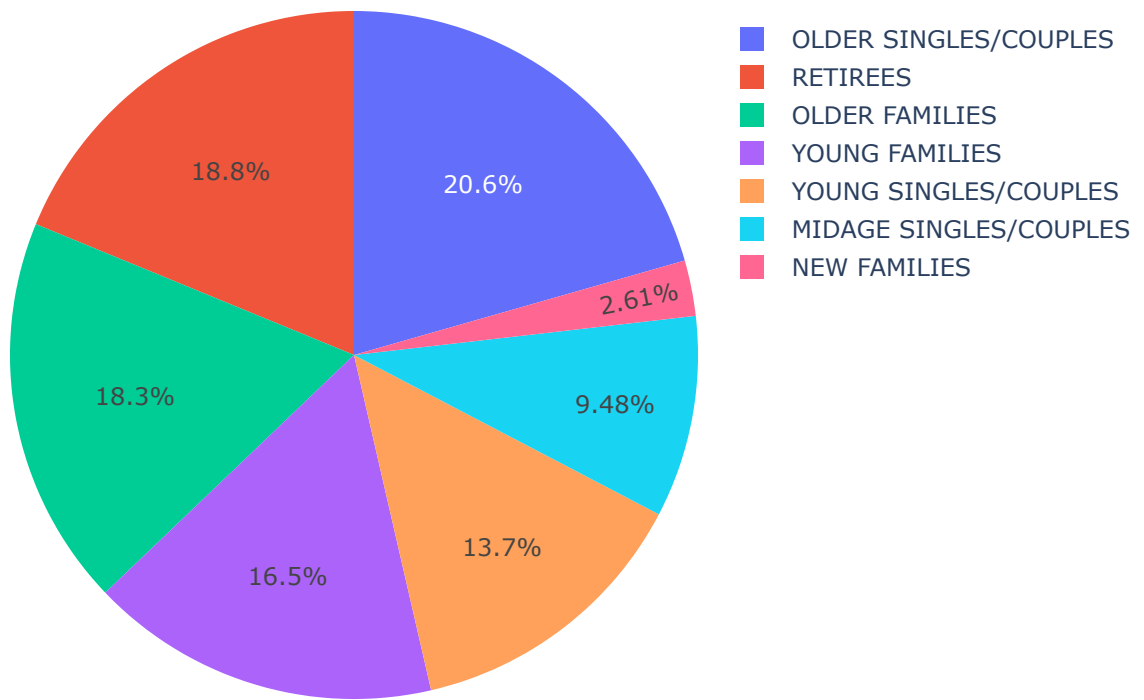


```
In [18]: labels = merged_data['LIFESTAGE'].value_counts().index
values = merged_data['LIFESTAGE'].value_counts().values
fig = go.Figure(data=[go.Pie(labels=labels, values=values)])

# 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)]

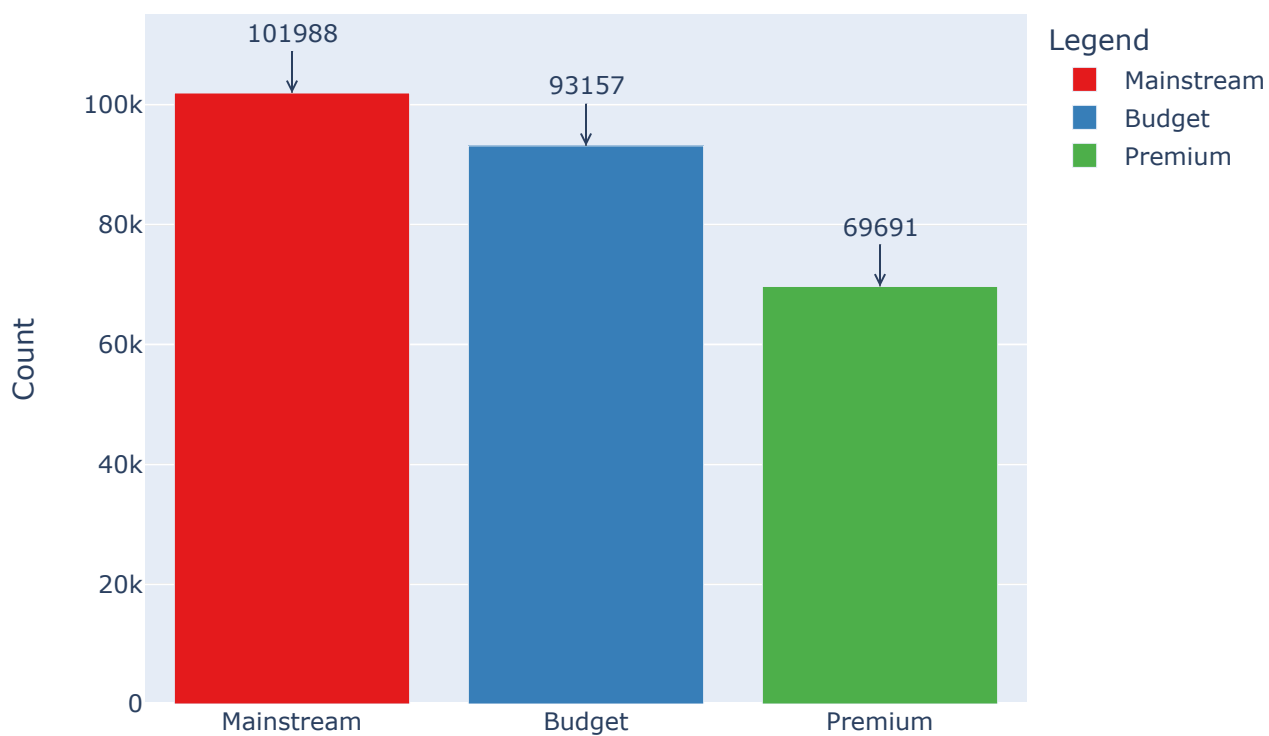
# Create a bar chart using Plotly Express with different colors
fig = px.bar(
    x=premium_type_counts.index,
    y=premium_type_counts.values,
    labels={'y': 'Count', 'x': 'Type of Customer'},
    color=premium_type_counts.index, # Use premium type as color
    color_discrete_map={ctype: color for 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



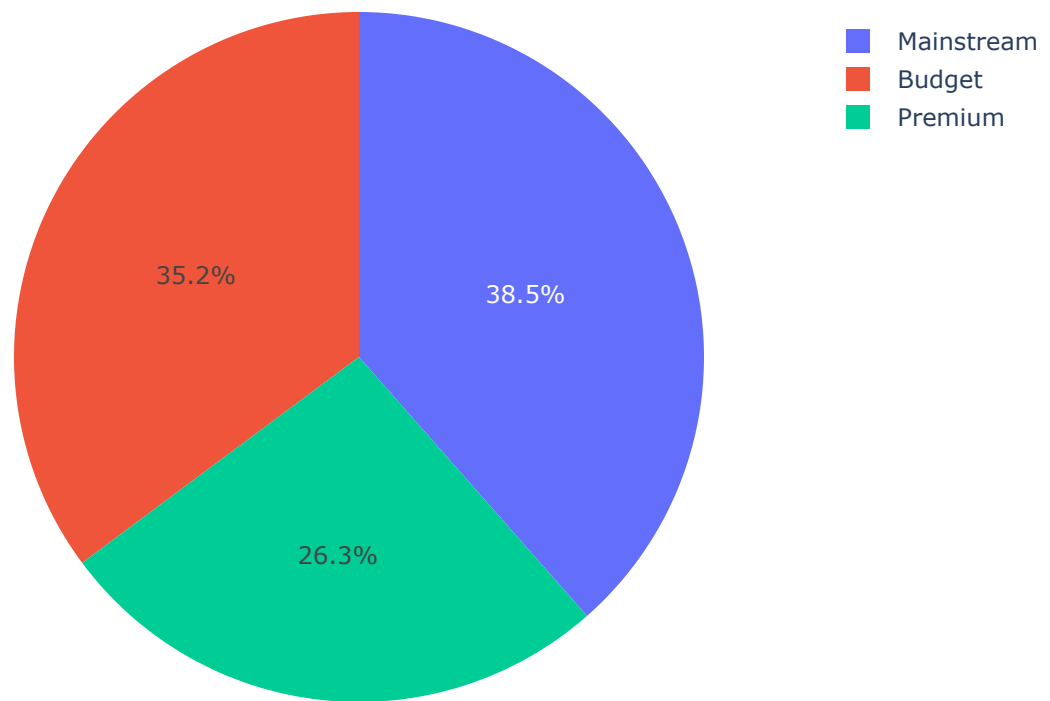
Type of Customer

```
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='D')
```

```
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
```

```
In [26]: ##Extracting Quater from DATE_NRML column
merged_data['Quarter'] = merged_data['DATE_NRML'].dt.quarter
```

```
In [27]: #Extracting Quater and Year from DATE_NRML column
merged_data['Quarter_Year'] = merged_data['DATE_NRML'].dt.to_period('Q')
```

```
In [28]: #Extracting WEEKDAY from DATE_NRML column
merged_data['Weekday'] = merged_data['DATE_NRML'].dt.day_name()
```

```
In [29]: merged_data.head(10)
```

Out[29]:

	LYLTY_CARD_NBR	LIFESTAGE	PREMIUM_CUSTOMER	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_NAME
0	1000	YOUNG SINGLES/COUPLES	Premium	43390	1	1	5	Natural Seafood
1	1002	YOUNG SINGLES/COUPLES	Mainstream	43359	1	2	58	Red Hot Chikn&G
2	1003	YOUNG FAMILIES	Budget	43531	1	3	52	Grain W& Cream
3	1003	YOUNG FAMILIES	Budget	43532	1	4	106	Natural I Cr
4	1004	OLDER SINGLES/COUPLES	Mainstream	43406	1	5	96	WW Stack
5	1005	MIDAGE SINGLES/COUPLES	Mainstream	43462	1	6	86	Cheese
6	1007	YOUNG SINGLES/COUPLES	Budget	43438	1	7	49	SourCreat Veg St
7	1007	YOUNG SINGLES/COUPLES	Budget	43439	1	8	10	RRD SR Pork B
8	1009	NEW FAMILIES	Premium	43424	1	9	20	Dorito Supre
9	1010	YOUNG SINGLES/COUPLES	Mainstream	43352	1	10	51	Doritos I

```
In [30]: merged_data.to_csv('Merged_data.csv')
#Saving the merged Dataset
```

```
In [31]: merged_data.head(10)
```

Out[31]:

	LYLTY_CARD_NBR	LIFESTAGE	PREMIUM_CUSTOMER	DATE	STORE_NBR	TXN_ID	PROD_NBR	PROD_NAME
0	1000	YOUNG SINGLES/COUPLES	Premium	43390	1	1	5	Natural Seafood
1	1002	YOUNG SINGLES/COUPLES	Mainstream	43359	1	2	58	Red Hot Chikn&G
2	1003	YOUNG FAMILIES	Budget	43531	1	3	52	Grain W& Cream

3	1003	YOUNG FAMILIES	Budget	43532	1	4	106	Natura I Cr
4	1004	OLDER SINGLES/COUPLES	Mainstream	43406	1	5	96	WW Stack
5	1005	MIDAGE SINGLES/COUPLES	Mainstream	43462	1	6	86	Chee
6	1007	YOUNG SINGLES/COUPLES	Budget	43438	1	7	49	SourCreat Veg St
7	1007	YOUNG SINGLES/COUPLES	Budget	43439	1	8	10	RRD SR Pork B
8	1009	NEW FAMILIES	Premium	43424	1	9	20	Dorito Supre
9	1010	YOUNG SINGLES/COUPLES	Mainstream	43352	1	10	51	Doritos I

```
In [32]: counts = merged_data.PROD_NAME.value_counts().head(20)

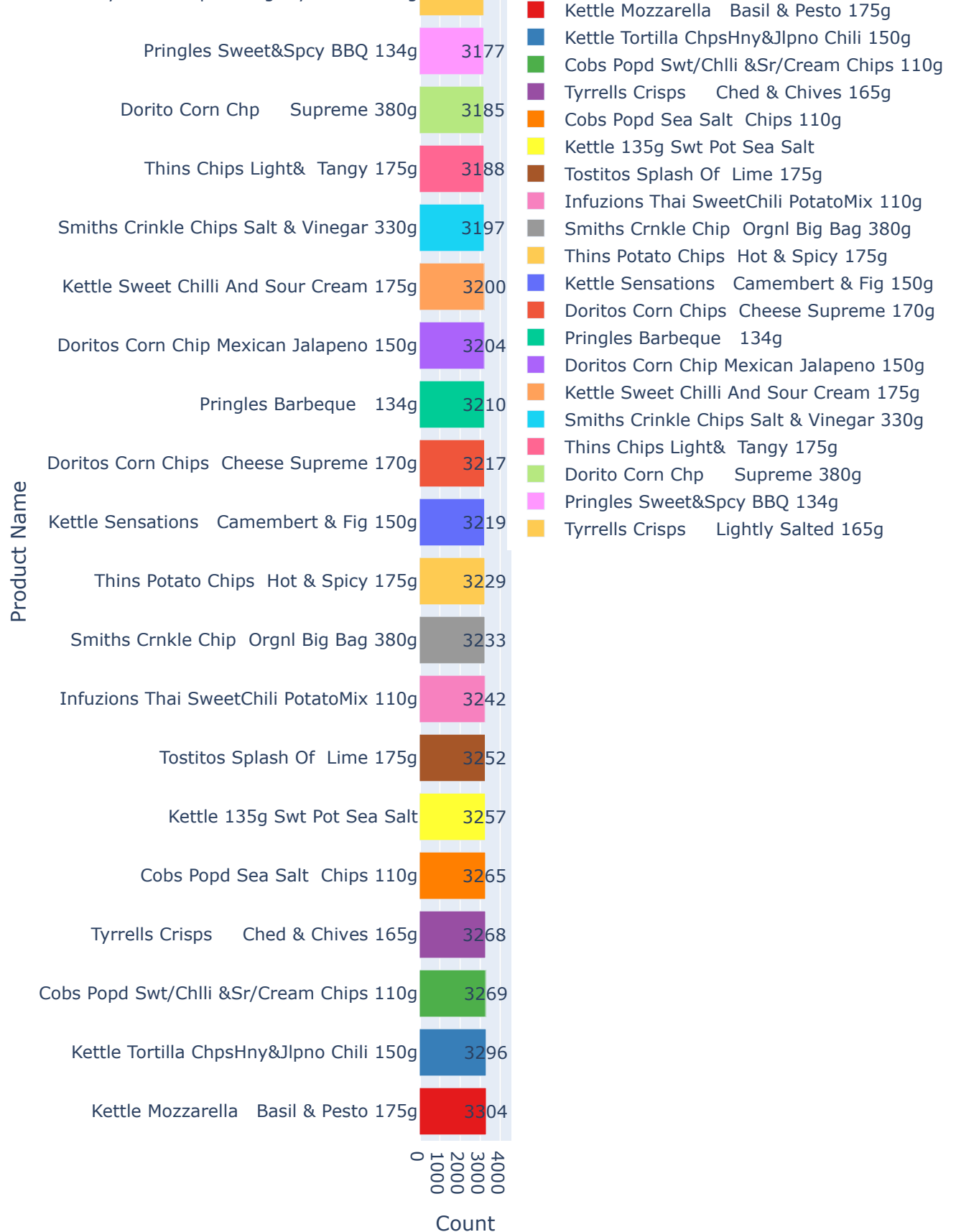
colors = px.colors.qualitative.Set1[:len(counts)]

# 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 [33]: merged_data.PROD_QTY.value_counts()
```

```
Out[33]: 2      236039
1       27518
5         450
3         430
4         397
200         2
Name: PROD_QTY, dtype: int64
```

```
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('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)
```

```
In [36]: merged_data.Year.value_counts()
```

```
Out[36]: 2019    132600
         2018    132236
         Name: Year, dtype: int64
```

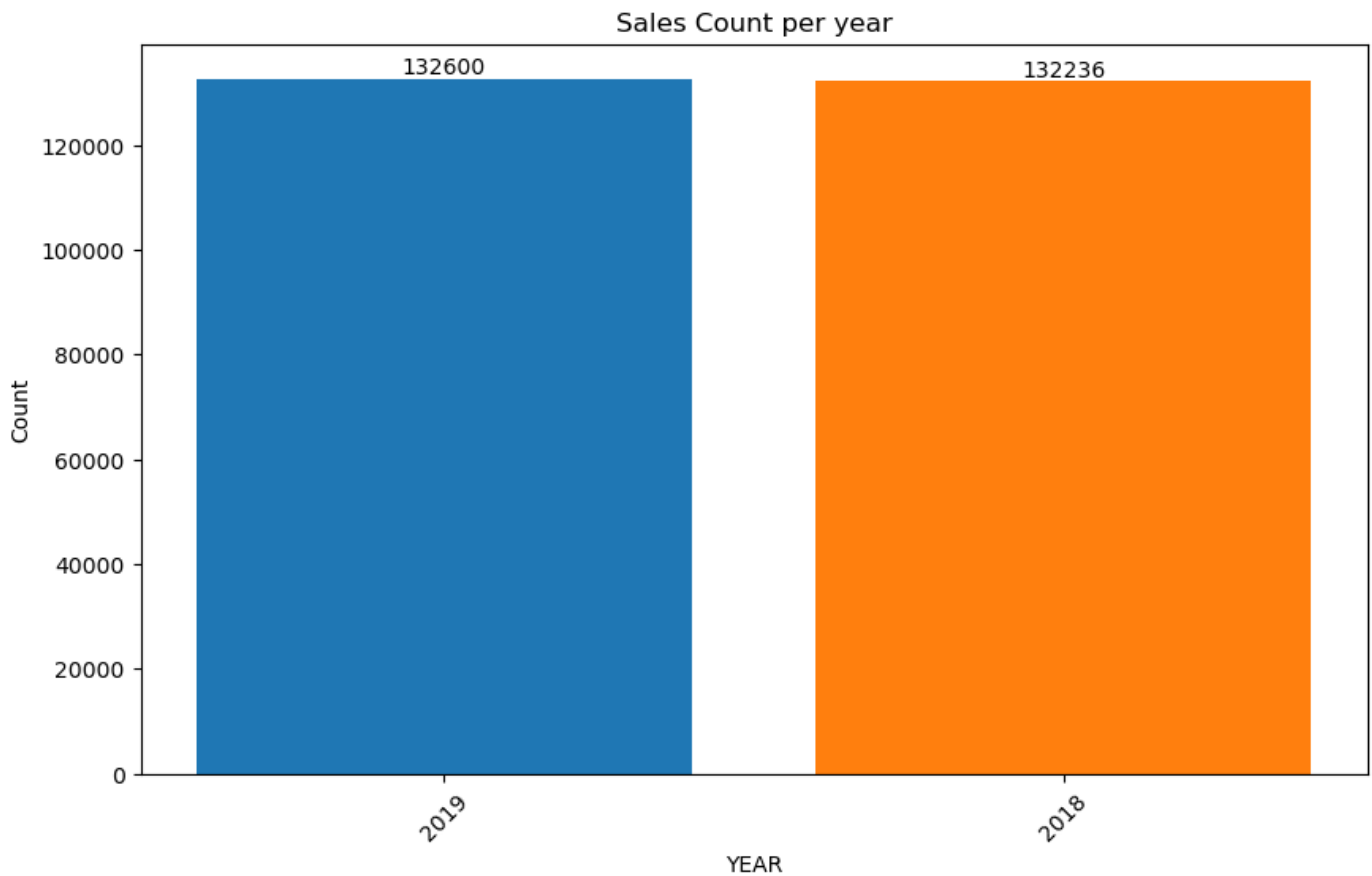
```
In [37]: counts = merged_data['Year'].value_counts()

# 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()
```



```
In [38]: merged_data.Month_Year.value_counts()
```

```
Out[38]: December 2018    22853
         March 2019      22628
         August 2018     22488
         May 2019        22404
         October 2018    22342
         January 2019    22143
```

```

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()

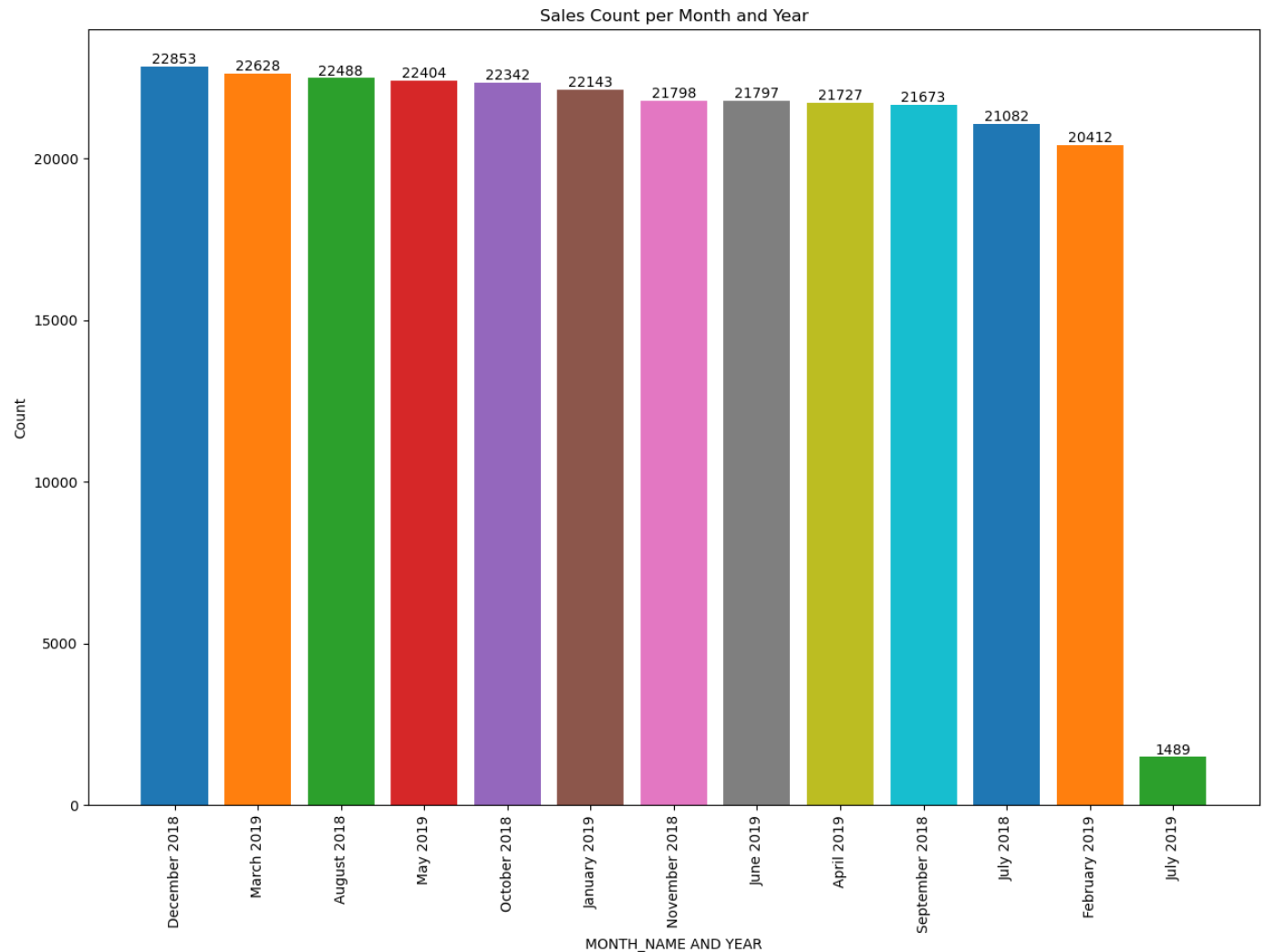
# Plotting the counts
plt.figure(figsize=(15, 10))

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

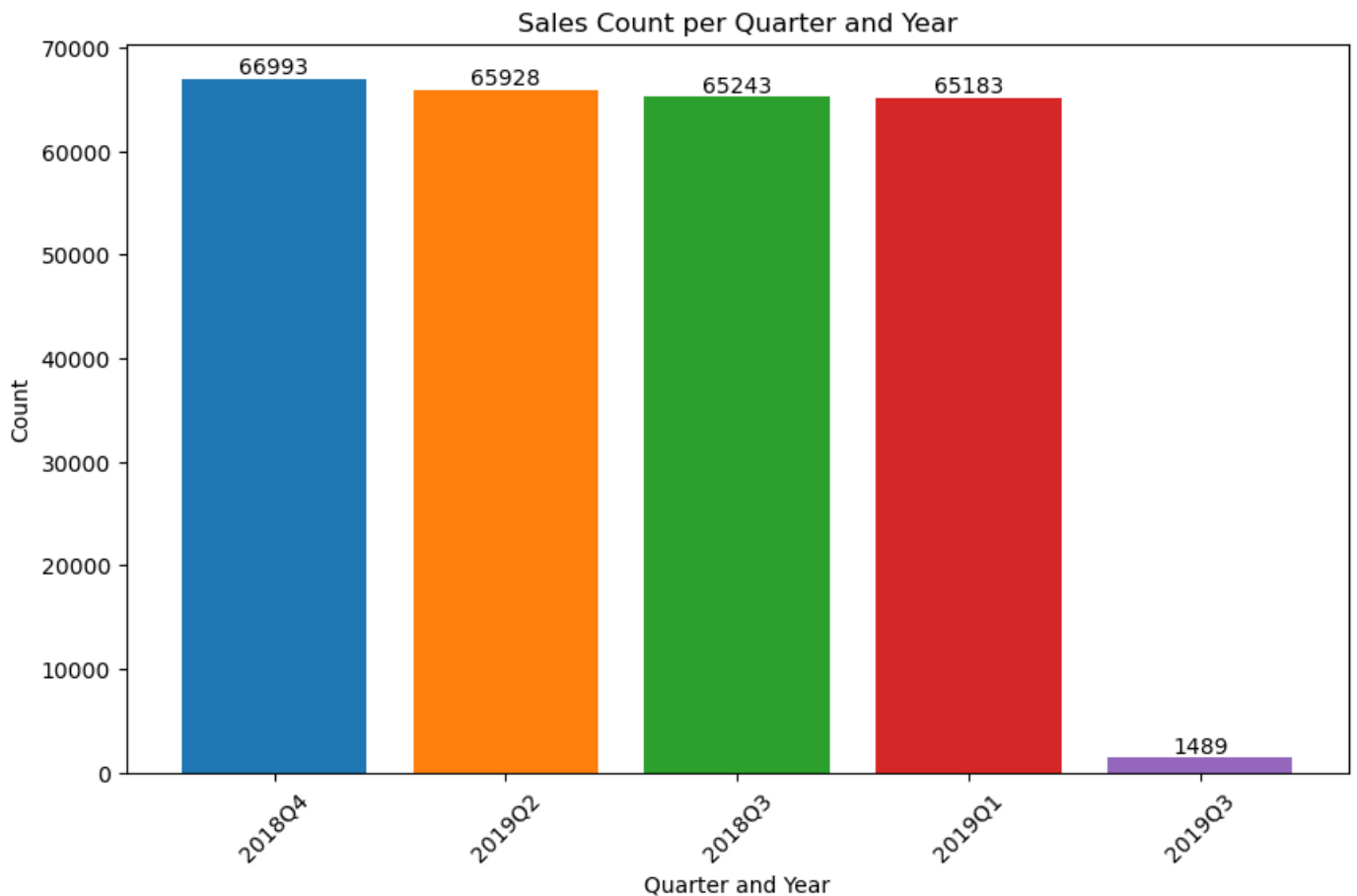
```
In [41]: counts = merged_data['Quarter_Year'].value_counts()

# 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()
```



```
In [42]: merged_data['Quarter'].value_counts()
```

```
Out[42]: 4    66993
         3    66732
         2    65928
         1    65183
         Name: Quarter, dtype: int64
```

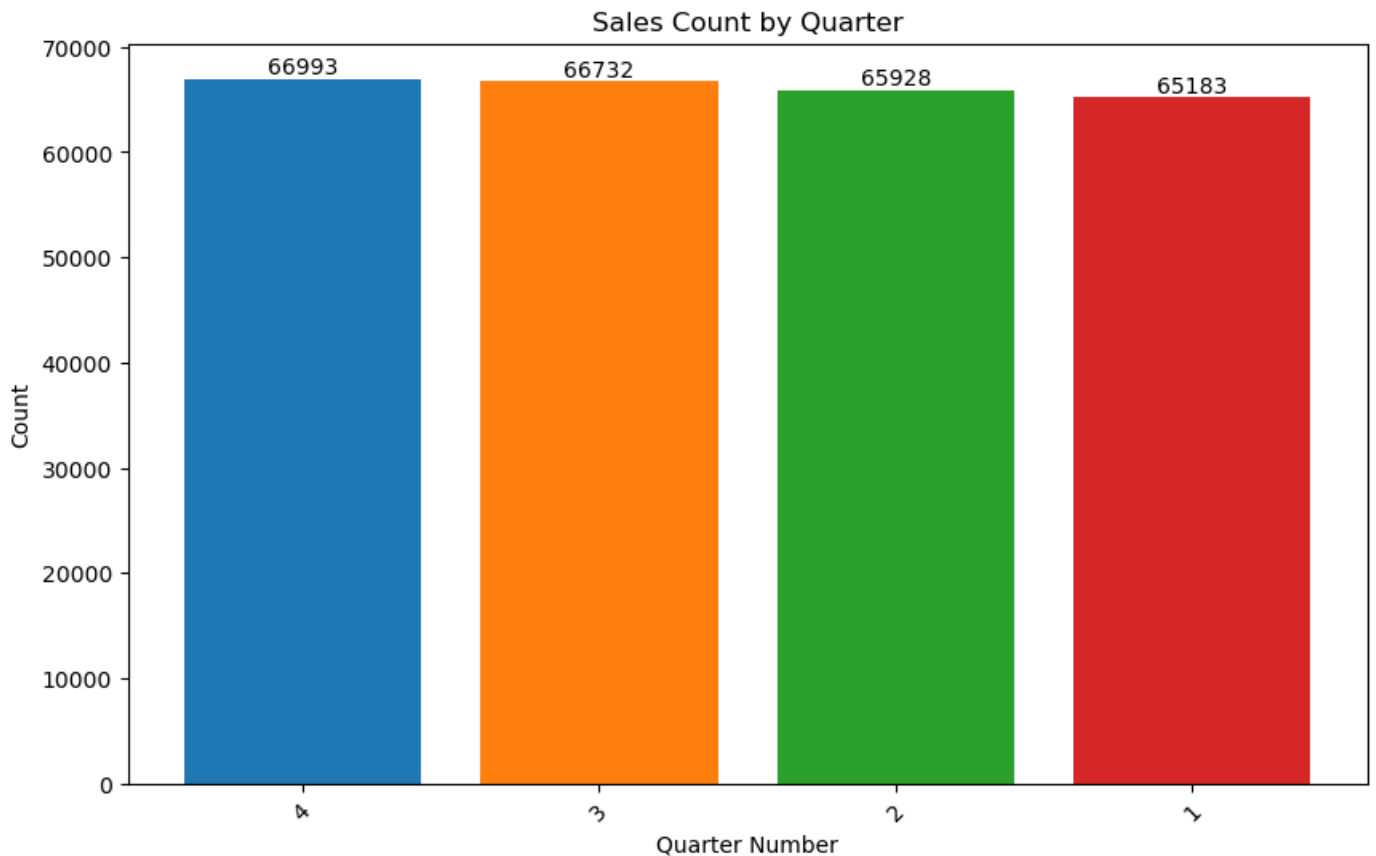
```
In [43]: counts = merged_data['Quarter'].value_counts()

# 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()

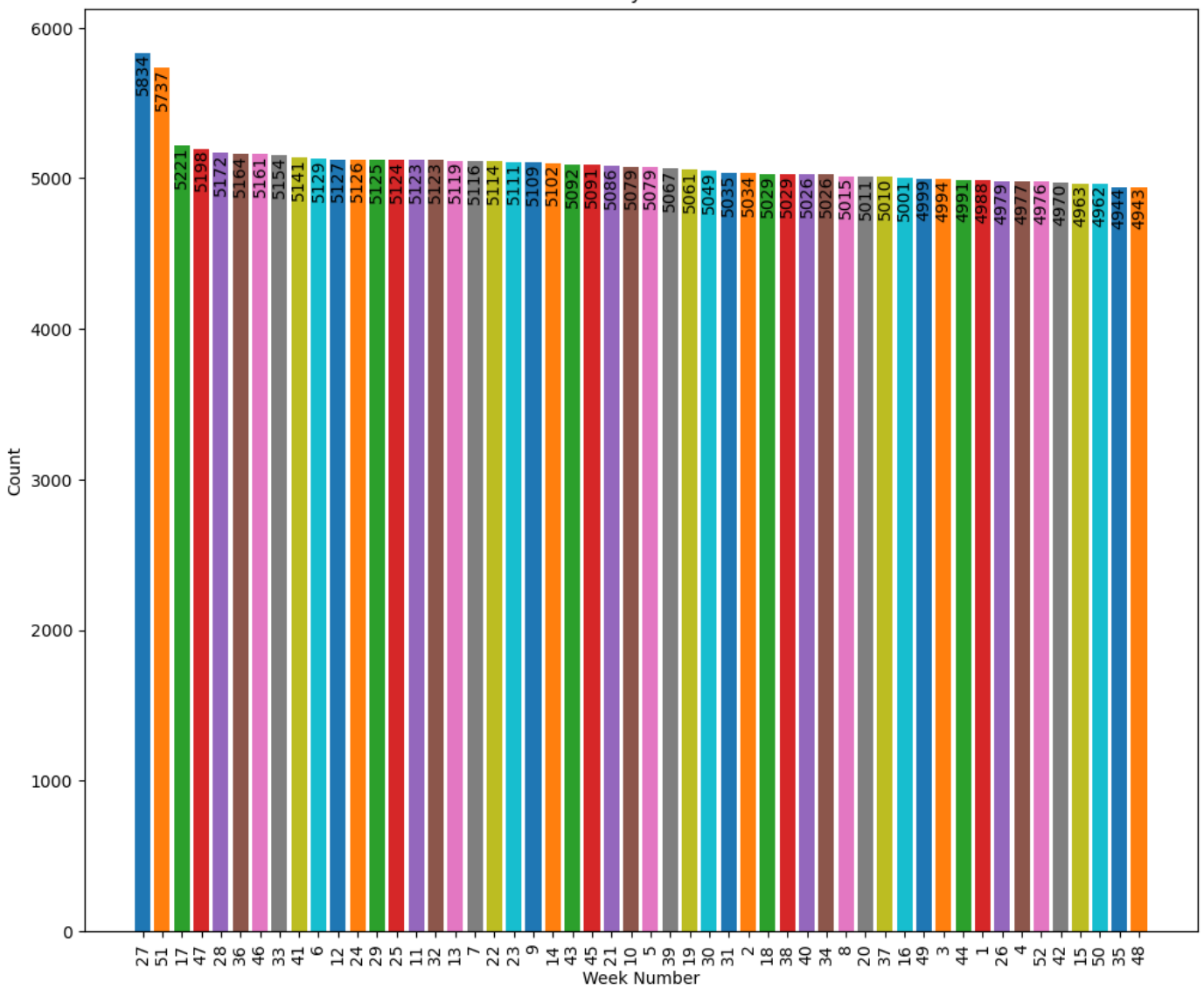
# Plotting the counts
plt.figure(figsize=(12, 10))

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.xticks(range(len(counts)), counts.index, rotation=90)

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

Sales Count by Week Number



```
In [45]: merged_data['Weekday'].value_counts()
```

```
Out[45]: Tuesday      38718
Sunday      38208
Friday      37979
Monday      37812
Wednesday   37605
Saturday    37375
Thursday    37139
Name: Weekday, dtype: int64
```

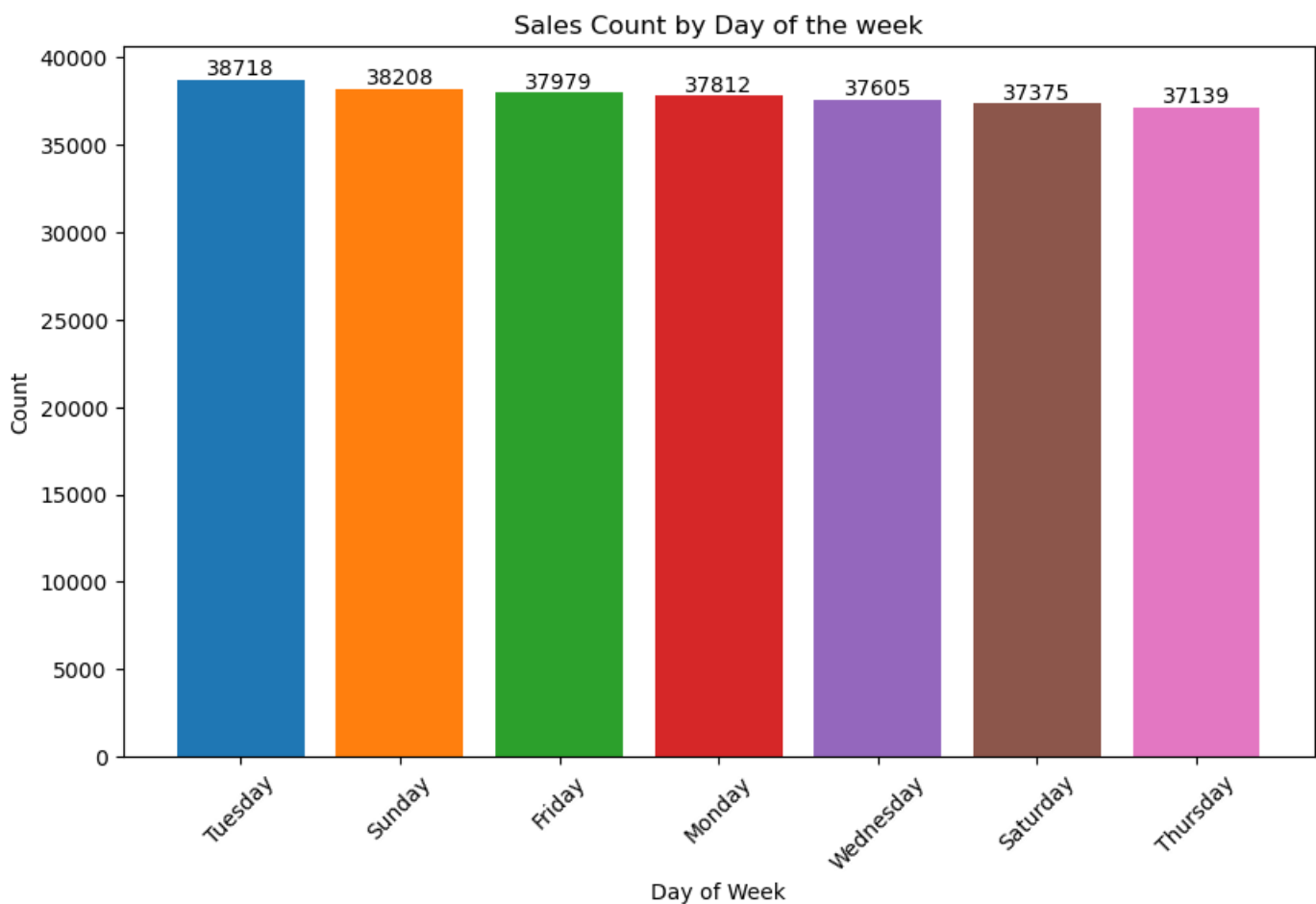
```
In [46]: counts = merged_data['Weekday'].value_counts()

# 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()
```

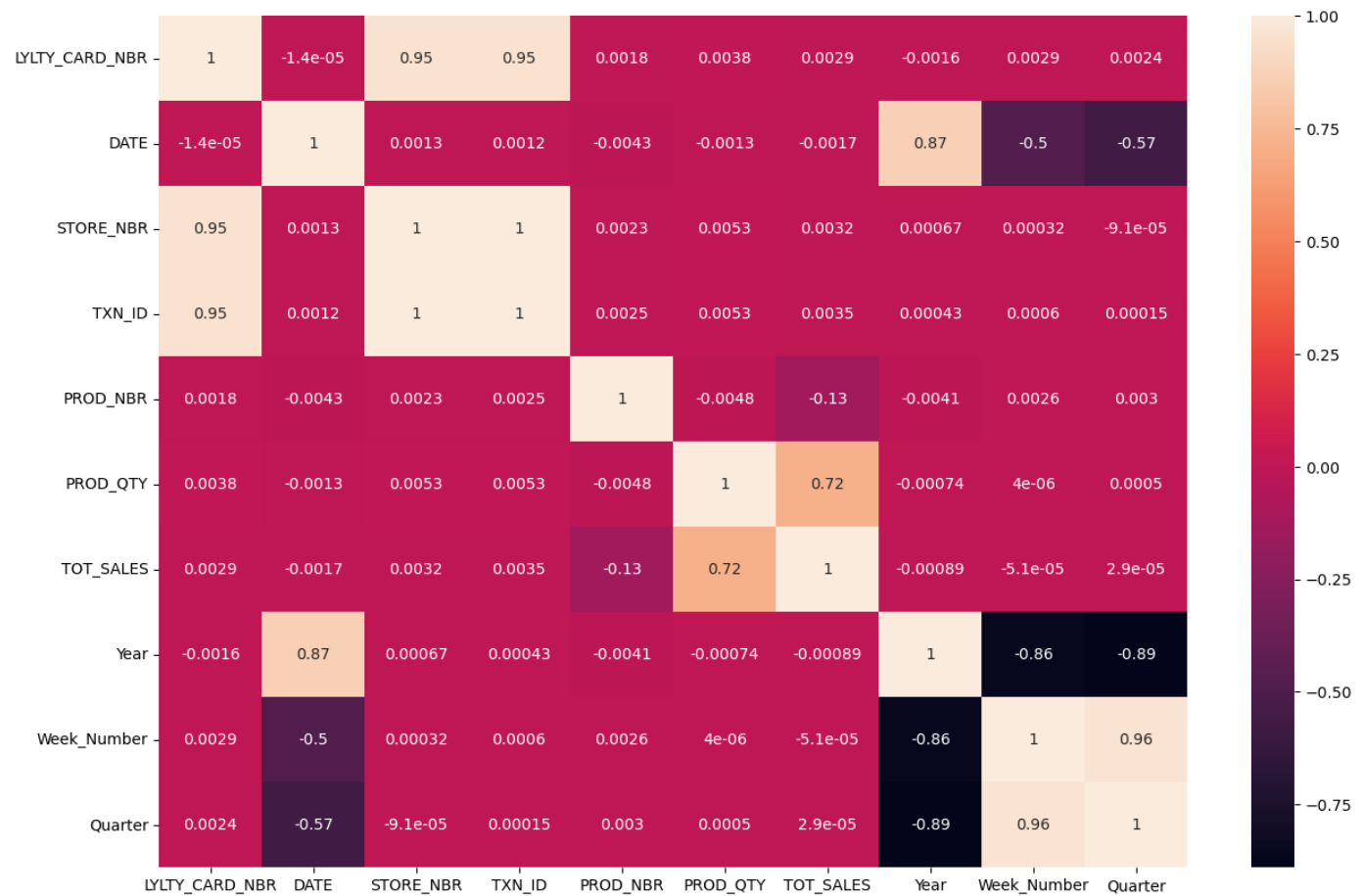


In [47]: `merged_data.info()`

```
<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
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&C 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 C

```
In [ ]:
```

