

# Group06.Project01.Final

June 10, 2024

## 1 Project-Superstore Sales Analysis and Performance

Domain: Sales

Organisation: Vigor Council

Group : Priyanshu, Saraansh, Vishal

Start Date: 21.03.2024 Expected End Date: 31.03.2024

```
[1]: #importing python librarires
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
```

```
[2]: #importing excel file
df=pd.read_csv("Sample - Superstore.csv")
```

```
[3]: #showing the dataset
df
```

```
[3]:
```

	Row ID	Order ID	Order Date	Ship Date	Ship Mode \
0	1	CA-2016-152156	11/8/2016	11/11/2016	Second Class
1	2	CA-2016-152156	11/8/2016	11/11/2016	Second Class
2	3	CA-2016-138688	6/12/2016	6/16/2016	Second Class
3	4	US-2015-108966	10/11/2015	10/18/2015	Standard Class
4	5	US-2015-108966	10/11/2015	10/18/2015	Standard Class
...	...	...	...	...	...
9989	9990	CA-2014-110422	1/21/2014	1/23/2014	Second Class
9990	9991	CA-2017-121258	2/26/2017	3/3/2017	Standard Class
9991	9992	CA-2017-121258	2/26/2017	3/3/2017	Standard Class
9992	9993	CA-2017-121258	2/26/2017	3/3/2017	Standard Class
9993	9994	CA-2017-119914	5/4/2017	5/9/2017	Second Class

	Customer ID	Customer Name	Segment	Country	City \
0	CG-12520	Claire Gute	Consumer	United States	Henderson
1	CG-12520	Claire Gute	Consumer	United States	Henderson
2	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles

3	S0-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale
4	S0-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale
...	...	...	...	...	...
9989	TB-21400	Tom Boeckenhauer	Consumer	United States	Miami
9990	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa
9991	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa
9992	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa
9993	CC-12220	Chris Cortes	Consumer	United States	Westminster

	...	Postal Code	Region	Product ID	Category	Sub-Category	\
0	...	42420	South	FUR-BO-10001798	Furniture	Bookcases	
1	...	42420	South	FUR-CH-10000454	Furniture	Chairs	
2	...	90036	West	OFF-LA-10000240	Office Supplies	Labels	
3	...	33311	South	FUR-TA-10000577	Furniture	Tables	
4	...	33311	South	OFF-ST-10000760	Office Supplies	Storage	
...	...	...	...	...	...	...	
9989	...	33180	South	FUR-FU-10001889	Furniture	Furnishings	
9990	...	92627	West	FUR-FU-10000747	Furniture	Furnishings	
9991	...	92627	West	TEC-PH-10003645	Technology	Phones	
9992	...	92627	West	OFF-PA-10004041	Office Supplies	Paper	
9993	...	92683	West	OFF-AP-10002684	Office Supplies	Appliances	

		Product Name	Sales	Quantity	\
0		Bush Somerset Collection Bookcase	261.9600	2	
1		Hon Deluxe Fabric Upholstered Stacking Chairs,...	731.9400	3	
2		Self-Adhesive Address Labels for Typewriters b...	14.6200	2	
3		Bretford CR4500 Series Slim Rectangular Table	957.5775	5	
4		Eldon Fold 'N Roll Cart System	22.3680	2	
...		...	...	...	
9989		Ultra Door Pull Handle	25.2480	3	
9990		Tenex B1-RE Series Chair Mats for Low Pile Car...	91.9600	2	
9991		Aastra 57i VoIP phone	258.5760	2	
9992		It's Hot Message Books with Stickers, 2 3/4" x 5"	29.6000	4	
9993		Acco 7-Outlet Masterpiece Power Center, Wihtou...	243.1600	2	

	Discount	Profit
0	0.00	41.9136
1	0.00	219.5820
2	0.00	6.8714
3	0.45	-383.0310
4	0.20	2.5164
...	...	...
9989	0.20	4.1028
9990	0.00	15.6332
9991	0.20	19.3932
9992	0.00	13.3200
9993	0.00	72.9480

[9994 rows x 21 columns]

```
[4]: #checking whether the data has null values
df.isnull().sum()
```

```
[4]: Row ID          0
      Order ID       0
      Order Date     0
      Ship Date      0
      Ship Mode      0
      Customer ID    0
      Customer Name  0
      Segment        0
      Country        0
      City           0
      State          0
      Postal Code    0
      Region         0
      Product ID     0
      Category       0
      Sub-Category   0
      Product Name   0
      Sales          0
      Quantity       0
      Discount       0
      Profit         0
      dtype: int64
```

```
[5]: #statistical values
df[["Sales","Quantity","Profit"]].describe()
```

```
[5]:
```

	Sales	Quantity	Profit
count	9994.000000	9994.000000	9994.000000
mean	229.858001	3.789574	28.656896
std	623.245101	2.225110	234.260108
min	0.444000	1.000000	-6599.978000
25%	17.280000	2.000000	1.728750
50%	54.490000	3.000000	8.666500
75%	209.940000	5.000000	29.364000
max	22638.480000	14.000000	8399.976000

```
[6]: df.describe(include="object").T
```

```
[6]:
```

	count	unique	top	freq
Order ID	9994	5009	CA-2017-100111	14
Order Date	9994	1237	9/5/2016	38

Ship Date	9994	1334	12/16/2015	35
Ship Mode	9994	4	Standard Class	5968
Customer ID	9994	793	WB-21850	37
Customer Name	9994	793	William Brown	37
Segment	9994	3	Consumer	5191
Country	9994	1	United States	9994
City	9994	531	New York City	915
State	9994	49	California	2001
Region	9994	4	West	3203
Product ID	9994	1862	OFF-PA-10001970	19
Category	9994	3	Office Supplies	6026
Sub-Category	9994	17	Binders	1523
Product Name	9994	1850	Staple envelope	48

```
[7]: # checking data type
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9994 entries, 0 to 9993
Data columns (total 21 columns):
#   Column          Non-Null Count  Dtype
---  -
0   Row ID          9994 non-null   int64
1   Order ID        9994 non-null   object
2   Order Date      9994 non-null   object
3   Ship Date       9994 non-null   object
4   Ship Mode       9994 non-null   object
5   Customer ID     9994 non-null   object
6   Customer Name   9994 non-null   object
7   Segment         9994 non-null   object
8   Country         9994 non-null   object
9   City           9994 non-null   object
10  State           9994 non-null   object
11  Postal Code     9994 non-null   int64
12  Region          9994 non-null   object
13  Product ID      9994 non-null   object
14  Category        9994 non-null   object
15  Sub-Category    9994 non-null   object
16  Product Name    9994 non-null   object
17  Sales           9994 non-null   float64
18  Quantity        9994 non-null   int64
19  Discount        9994 non-null   float64
20  Profit          9994 non-null   float64
dtypes: float64(3), int64(3), object(15)
memory usage: 1.6+ MB
```

```
[8]: #changing data type
df['Order Date'] = pd.to_datetime(df['Order Date'], format='mixed')
df['Ship Date'] = pd.to_datetime(df['Ship Date'], format='mixed')
```

```
[9]: #with changed data type
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9994 entries, 0 to 9993
Data columns (total 21 columns):
#   Column                Non-Null Count  Dtype
---  -
0   Row ID                9994 non-null  int64
1   Order ID              9994 non-null  object
2   Order Date            9994 non-null  datetime64[ns]
3   Ship Date             9994 non-null  datetime64[ns]
4   Ship Mode              9994 non-null  object
5   Customer ID           9994 non-null  object
6   Customer Name         9994 non-null  object
7   Segment               9994 non-null  object
8   Country               9994 non-null  object
9   City                  9994 non-null  object
10  State                 9994 non-null  object
11  Postal Code           9994 non-null  int64
12  Region                9994 non-null  object
13  Product ID            9994 non-null  object
14  Category              9994 non-null  object
15  Sub-Category          9994 non-null  object
16  Product Name          9994 non-null  object
17  Sales                 9994 non-null  float64
18  Quantity              9994 non-null  int64
19  Discount              9994 non-null  float64
20  Profit                9994 non-null  float64
dtypes: datetime64[ns](2), float64(3), int64(3), object(13)
memory usage: 1.6+ MB
```

```
[10]: #check number of rows and columns
df.shape
```

```
[10]: (9994, 21)
```

```
[11]: def showlabels(ax):
        for data in ax.containers: ax.bar_label(data)
```

## 1.1 2 Data Analysis

### 1.2 2.1 Sales Analysis

#### 1.2.1 1) Total Sales

To know the total sales for united states in this dataset

```
[12]: us_sales=df["Sales"].sum().astype(int)
      print(f"The Total Sales for United States in this dataset is:{us_sales}")
```

The Total Sales for United States in this dataset is:2297200

#### 1.2.2 2) Sales Year on Year

Comparing increase in sales year by year

```
[13]: sales_by_year=df.groupby(df["Order Date"].dt.year)["Sales"].sum()
      print(sales_by_year)
```

Order Date

2014 484247.4981

2015 470532.5090

2016 609205.5980

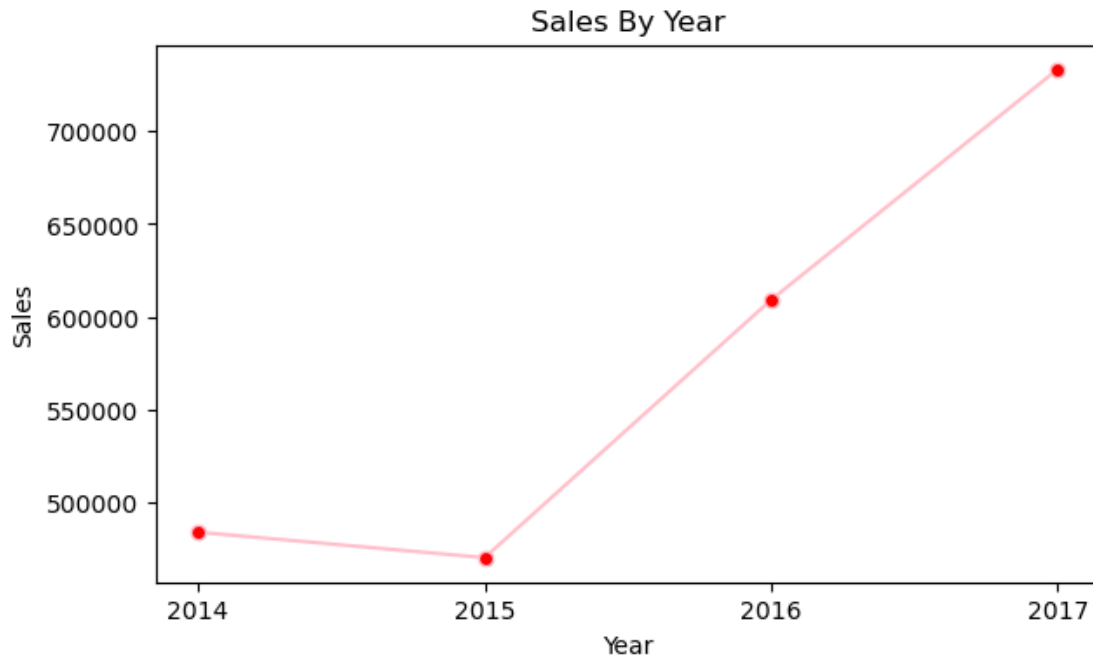
2017 733215.2552

Name: Sales, dtype: float64

```
[14]: plt.figure(figsize=(7,4))
      line=plt.plot(sales_by_year.
      ↪index,sales_by_year,marker="o",color='pink',mfc='red')
      plt.title("Sales By Year")
      plt.xlabel("Year")
      plt.ylabel("Sales")
      plt.xticks(sales_by_year.index)

      plt.show
```

```
[14]: <function matplotlib.pyplot.show(close=None, block=None)>
```



### 1.2.3 3) Sales Quarter on Quarter

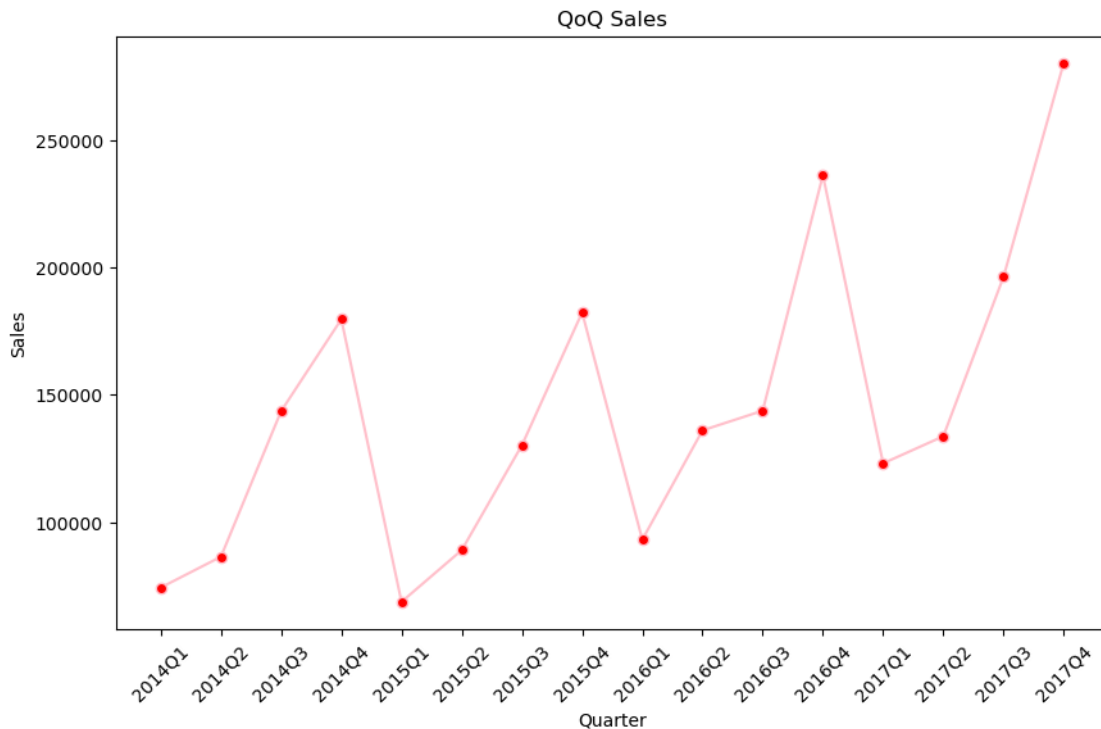
Comparing the sales on quarterly basis

```
[15]: df['Quarter']=df['Order Date'].dt.to_period("Q")
quarterly_sales=df.groupby("Quarter")["Sales"].sum().astype(int)
print(quarterly_sales)
```

```
Quarter
2014Q1      74447
2014Q2      86538
2014Q3     143633
2014Q4     179627
2015Q1      68851
2015Q2      89124
2015Q3     130259
2015Q4     182297
2016Q1       93237
2016Q2     136082
2016Q3     143787
2016Q4     236098
2017Q1     123144
2017Q2     133764
2017Q3     196251
2017Q4     280054
Freq: Q-DEC, Name: Sales, dtype: int32
```

```
[16]: df_quarterly = df.groupby(df["Order Date"].dt.to_period("Q"))["Sales"].sum().
      ↪reset_index()

plt.figure(figsize=(10,6))
plt.plot(df_quarterly["Order Date"].astype(str),
      ↪df_quarterly["Sales"],marker="o",color='pink',mfc='red')
plt.title("QoQ Sales")
plt.xlabel("Quarter")
plt.ylabel("Sales")
plt.xticks(rotation=45)
plt.show()
```



#### 1.2.4 4) Sales by Region

Comparing which region had the most sales

```
[17]: Count_of_region=df['Region'].value_counts()
      High_sales=Count_of_region.idxmax()
      print("Highest sale is in region:",High_sales)
```

Highest sale is in region: West

```
[18]: ount_of_region=df['Region'].value_counts()
      High_sales=Count_of_region.idxmin()
      print("Lowestt sale is in region:",High_sales)
```

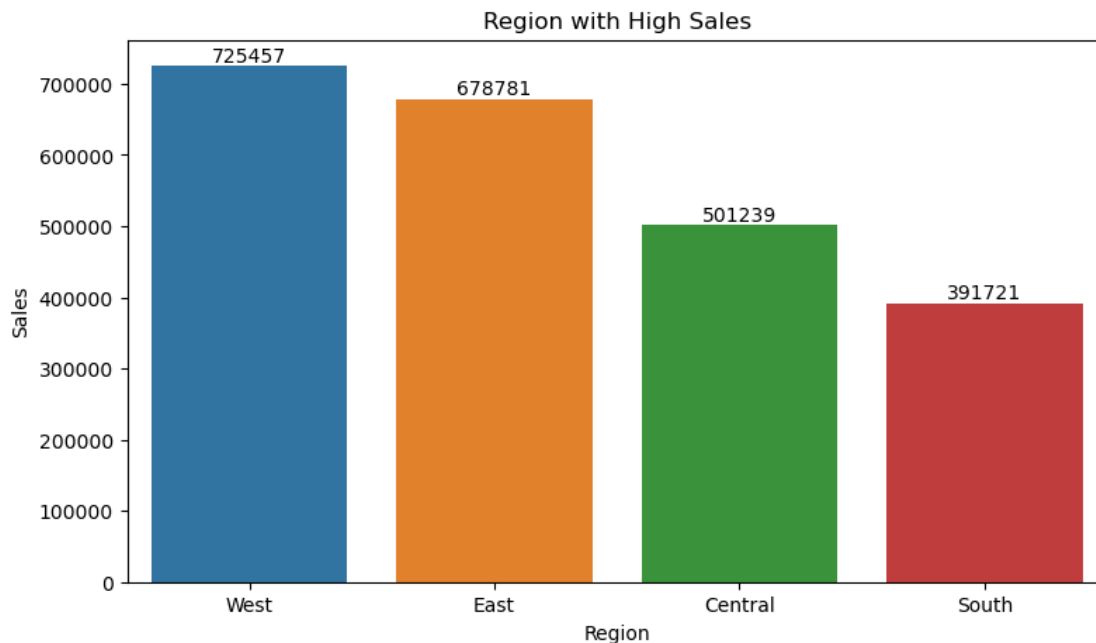


Lowestt sale is in region: South

```
[19]: p =df.groupby(["Region"])["Sales"].sum().astype(int)
x =p.sort_values(ascending= False).reset_index()
print(x)
```

	Region	Sales
0	West	725457
1	East	678781
2	Central	501239
3	South	391721

```
[20]: plt.figure(figsize=(9,5))
ax=sns.barplot(x="Region",y="Sales", data = x)
showlabels(ax)
plt.title("Region with High Sales")
plt.show()
```



### 1.2.5 5) Sales by City

Comparing which city had the Most Sales and which city had the Least Sale

```
[21]: p =df.groupby(["City"])["Sales"].sum().astype(int)
x =p.sort_values(ascending= False).head(5).reset_index()
print(x)
```

	City	Sales
0	New York City	256368

```

1    Los Angeles  175851
2      Seattle  119540
3 San Francisco  112669
4 Philadelphia  109077

```

```

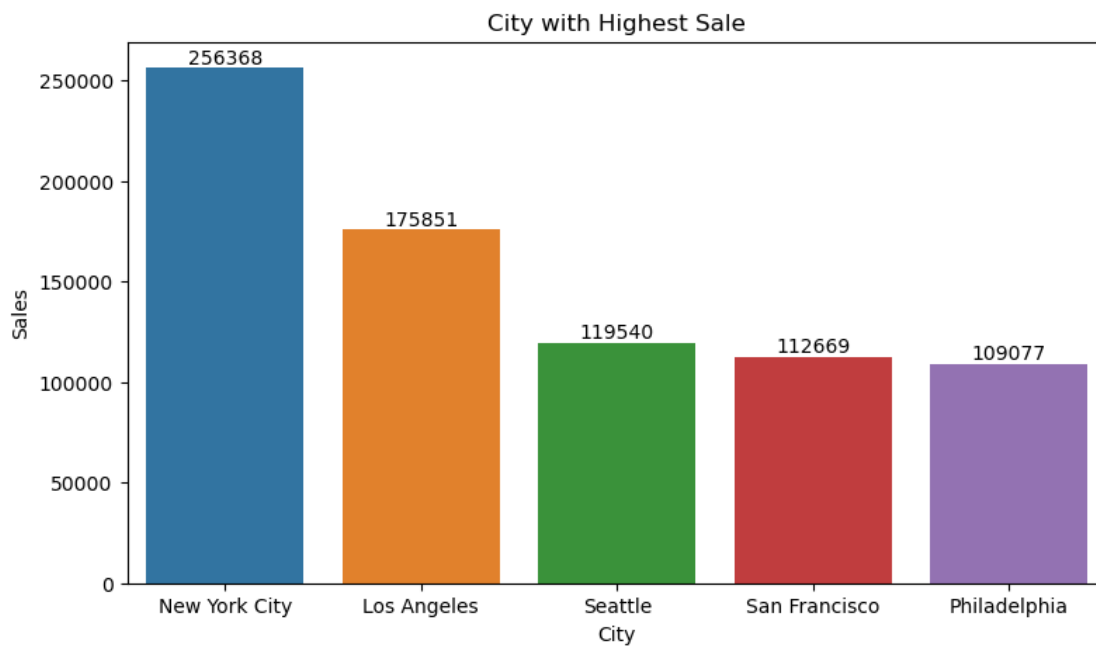
[22]: plt.figure(figsize=(9,5))
      ax=sns.barplot(x="City",y="Sales", data = x)
      showlabels(ax)
      plt.title("City with Highest Sale")

```

```

[22]: Text(0.5, 1.0, 'City with Highest Sale')

```



```

[23]: p =df.groupby(["City"])[ "Sales"].sum().astype(int)
      x =p.sort_values(ascending= True).head(5).reset_index()
      print(x)

```

```

      City  Sales
0    Abilene      1
1    Elyria       1
2 Ormond Beach      2
3    Jupiter       2
4  Pensacola       2

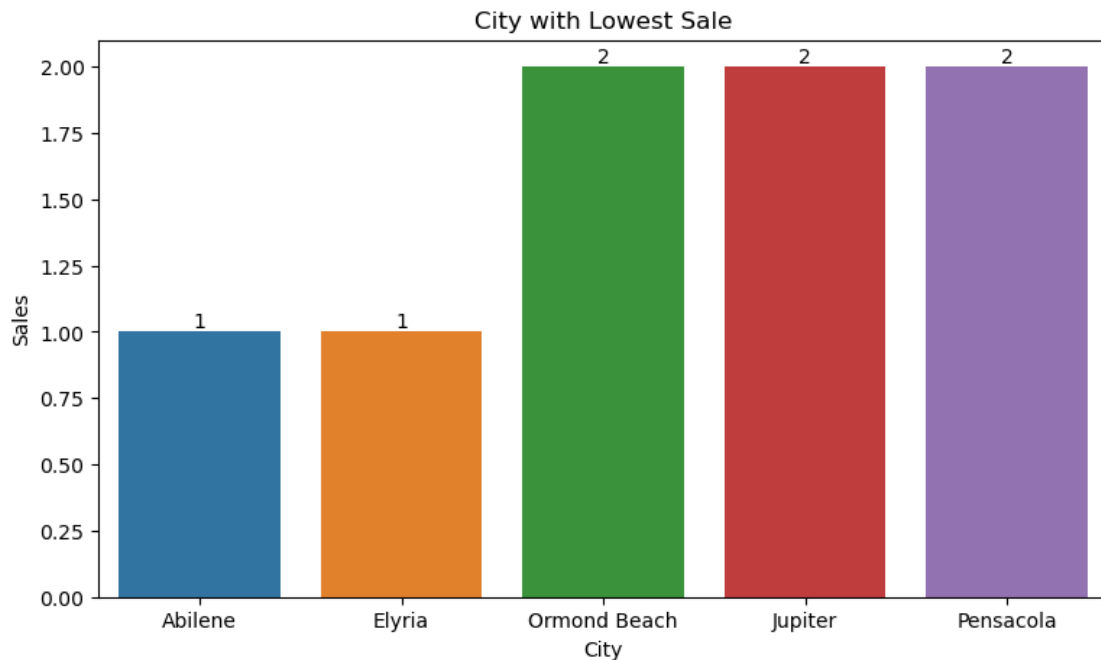
```

```

[24]: plt.figure(figsize=(9,5))
      ax=sns.barplot(x="City",y="Sales", data = x)
      showlabels(ax)
      plt.title("City with Lowest Sale")

```

```
[24]: Text(0.5, 1.0, 'City with Lowest Sale')
```



## 1.3 2.2 Profit Analysis

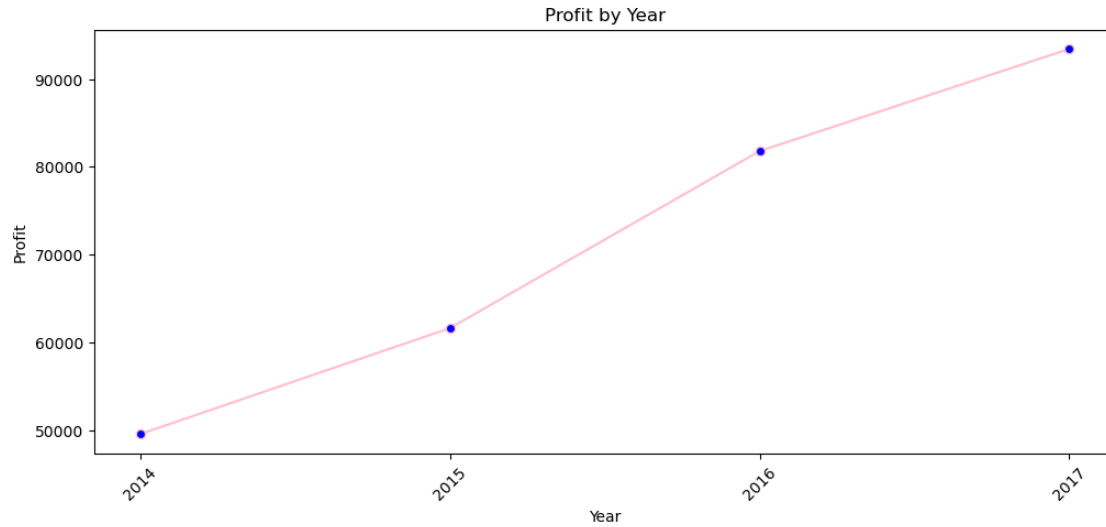
### 1.3.1 1) Profit Year On Year

Comparing Profits for each year

```
[25]: profit_by_year=df.groupby(df["Order Date"].dt.year)["Profit"].sum()
print(profit_by_year)
```

```
Order Date
2014    49543.9741
2015    61618.6037
2016    81795.1743
2017    93439.2696
Name: Profit, dtype: float64
```

```
[26]: plt.figure(figsize=(12,5))
line=plt.plot(profit_by_year.index, profit_by_year.values,
              ↪marker="o",color="pink",mfc="blue")
plt.title("Profit by Year")
plt.xlabel("Year")
plt.ylabel("Profit")
plt.xticks(profit_by_year.index,rotation=45)
plt.show()
```



### 1.3.2 2) Region with Highest profit

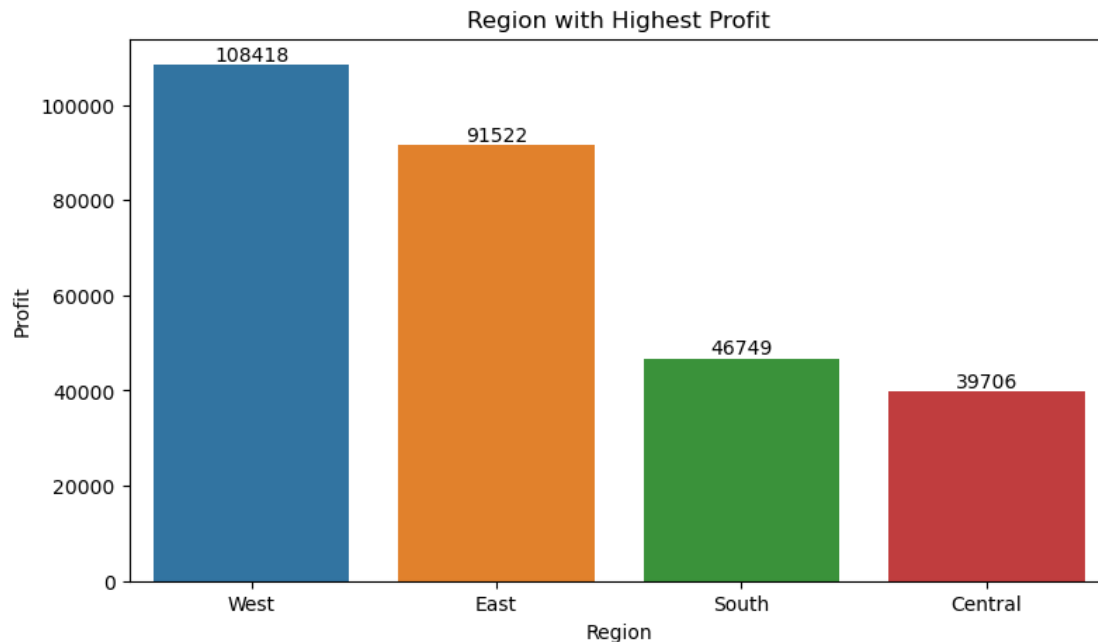
Comparing which region has the most profit

```
[27]: p = df.groupby(["Region"])["Profit"].sum().astype(int)
x = p.sort_values(ascending= False).reset_index()
print(x)
```

	Region	Profit
0	West	108418
1	East	91522
2	South	46749
3	Central	39706

```
[28]: plt.figure(figsize=(9,5))
ax=sns.barplot(x="Region",y="Profit", data = x)
showlabels(ax)
plt.title("Region with Highest Profit")
```

```
[28]: Text(0.5, 1.0, 'Region with Highest Profit')
```



### 1.4 3) Profit - City Wise

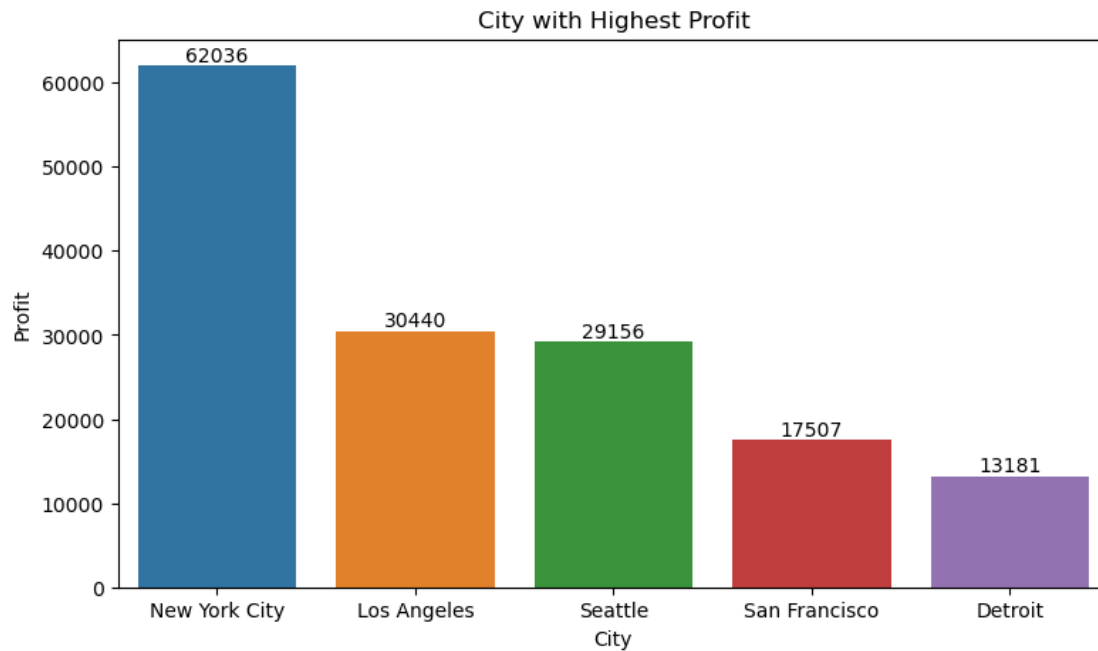
#### Top 5 City with Highest Profit

```
[29]: p = df.groupby(["City"])["Profit"].sum().astype(int)
      x = p.sort_values(ascending= False).head(5).reset_index()
      print(x)
```

	City	Profit
0	New York City	62036
1	Los Angeles	30440
2	Seattle	29156
3	San Francisco	17507
4	Detroit	13181

```
[30]: plt.figure(figsize=(9,5))
      ax=sns.barplot(x="City",y="Profit", data = x)
      showlabels(ax)
      plt.title("City with Highest Profit")
```

```
[30]: Text(0.5, 1.0, 'City with Highest Profit')
```



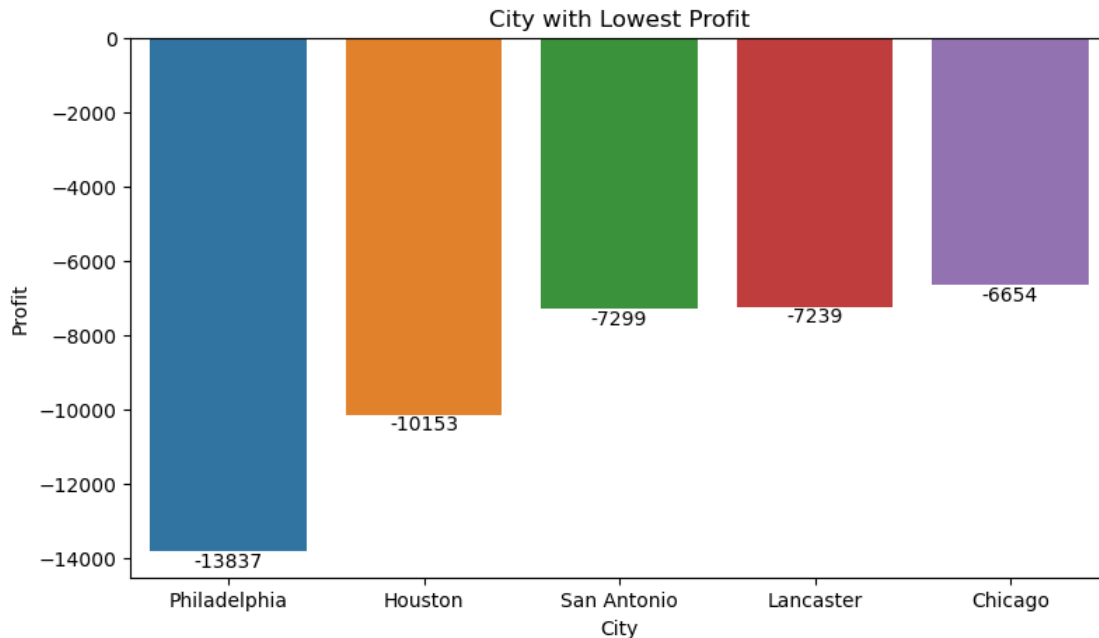
### Top 5 City with Lowest Profit

```
[31]: p =df.groupby(["City"])["Profit"].sum().astype(int)
      x =p.sort_values(ascending= True).head(5).reset_index()
      print(x)
```

	City	Profit
0	Philadelphia	-13837
1	Houston	-10153
2	San Antonio	-7299
3	Lancaster	-7239
4	Chicago	-6654

```
[32]: plt.figure(figsize=(9,5))
      ax=sns.barplot(x="City",y="Profit", data = x)
      showlabels(ax)
      plt.title("City with Lowest Profit")
```

```
[32]: Text(0.5, 1.0, 'City with Lowest Profit')
```



## 1.5 2.3 Customer Analysis

### 1.5.1 1) Unique Customers

How many Unique Customer are there in this data?

```
[33]: unique_customers=df['Customer Name'].nunique()
print("Number of unique customers:", unique_customers)
```

Number of unique customers: 793

### 1.5.2 2) Average Purchase Order Value

Checking what is the Average value for Order by the Customer

```
[34]: x=df["Sales"].mean().astype(int)
print(f"{x} is the Average Purchase Order Value per Customer")
```

229 is the Average Purchase Order Value per Customer

### 1.5.3 3) Top Customer

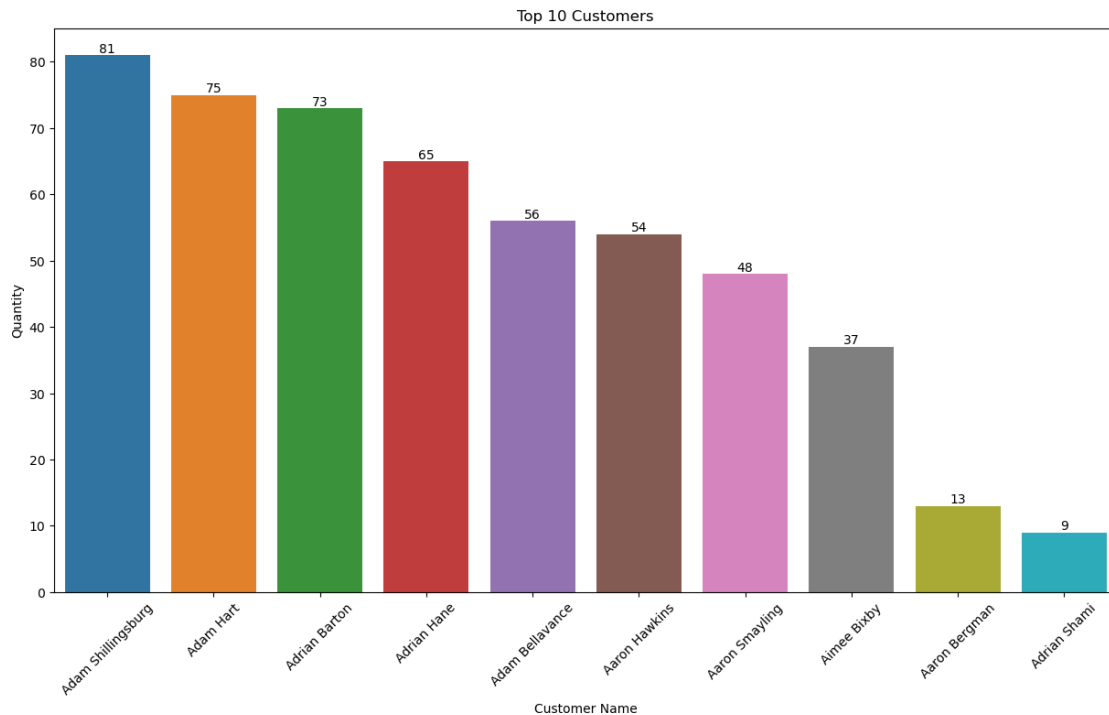
Comparing which customer purchased in most quantity

```
[35]: x=df.groupby("Customer Name")["Quantity"].sum().head(10).sort_values(ascending=
↪False).reset_index()
print(x)
```

	Customer Name	Quantity
0	Adam Shillingsburg	81

1	Adam Hart	75
2	Adrian Barton	73
3	Adrian Hane	65
4	Adam Bellavance	56
5	Aaron Hawkins	54
6	Aaron Smayling	48
7	Aimee Bixby	37
8	Aaron Bergman	13
9	Adrian Shami	9

```
[36]: plt.figure(figsize=(15,8))
ax=sns.barplot(x="Customer Name", y="Quantity", data=x)
plt.title("Top 10 Customers")
showlabels(ax)
plt.xticks(rotation=45)
plt.show()
```



#### 1.5.4 4) Most Profitable Customer

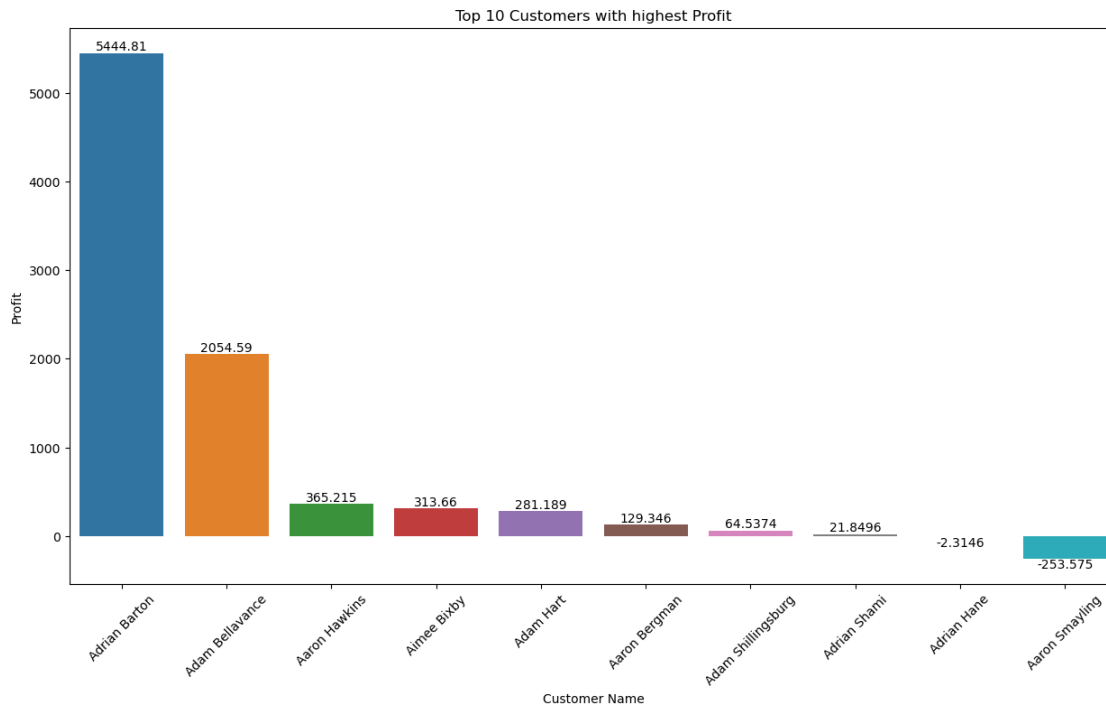
```
[37]: x=df.groupby("Customer Name")["Profit"].sum().head(10).sort_values(ascending=False)
print(x)
```

	Customer Name	Profit
0	Adrian Barton	5444.8055



1	Adam Bellavance	2054.5885
2	Aaron Hawkins	365.2152
3	Aimee Bixby	313.6597
4	Adam Hart	281.1890
5	Aaron Bergman	129.3465
6	Adam Shillingsburg	64.5374
7	Adrian Shami	21.8496
8	Adrian Hane	-2.3146
9	Aaron Smayling	-253.5746

```
[38]: plt.figure(figsize=(15,8))
ax=sns.barplot(x="Customer Name", y="Profit", data=x)
plt.title("Top 10 Customers with highest Profit")
showlabels(ax)
plt.xticks(rotation=45)
plt.show()
```



### 1.5.5 5) Average Quantity Ordered Per Customer

```
[39]: x=df["Quantity"].mean().astype(int)
print(f"The Average Quantity Ordered per Customer is:{x}")
```

The Average Quantity Ordered per Customer is:3

## 1.6 2.4 Category Analysis

### 1.6.1 1) Sales - Category Wise

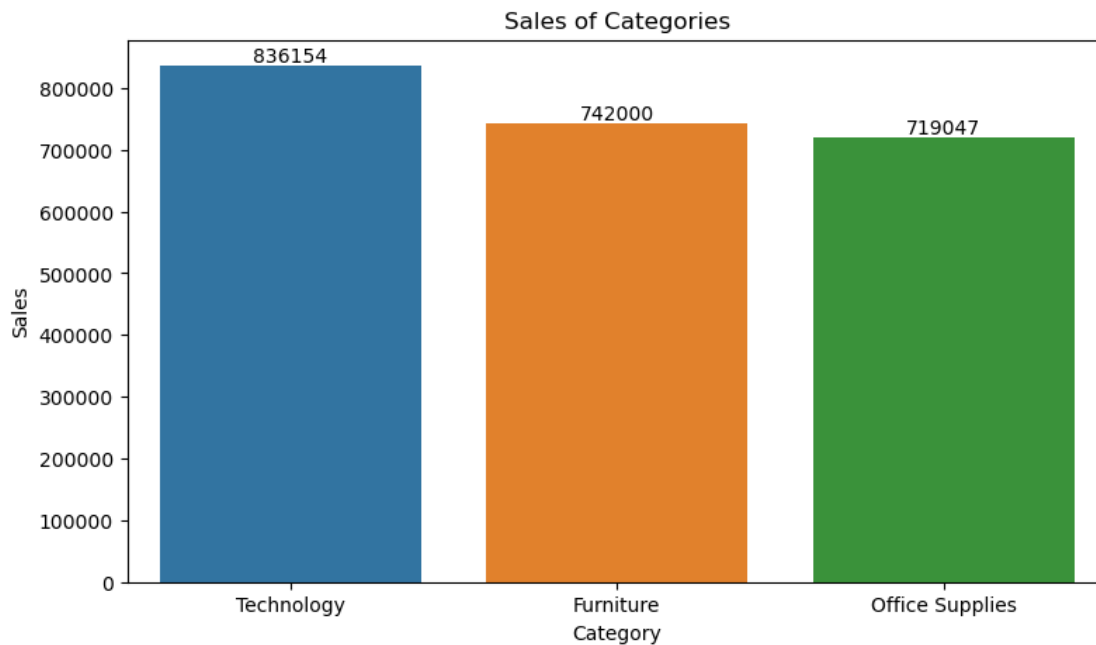
Comparing which category had the most Sales

```
[40]: x=df.groupby("Category")["Sales"].sum().sort_values(ascending=False).  
      ↪reset_index()  
      print(x)
```

	Category	Sales
0	Technology	836154.0330
1	Furniture	741999.7953
2	Office Supplies	719047.0320

```
[41]: plt.figure(figsize=(9,5))  
      ax=sns.barplot(x="Category",y="Sales", data = x)  
      showlabels(ax)  
      plt.title("Sales of Categories")
```

```
[41]: Text(0.5, 1.0, 'Sales of Categories')
```



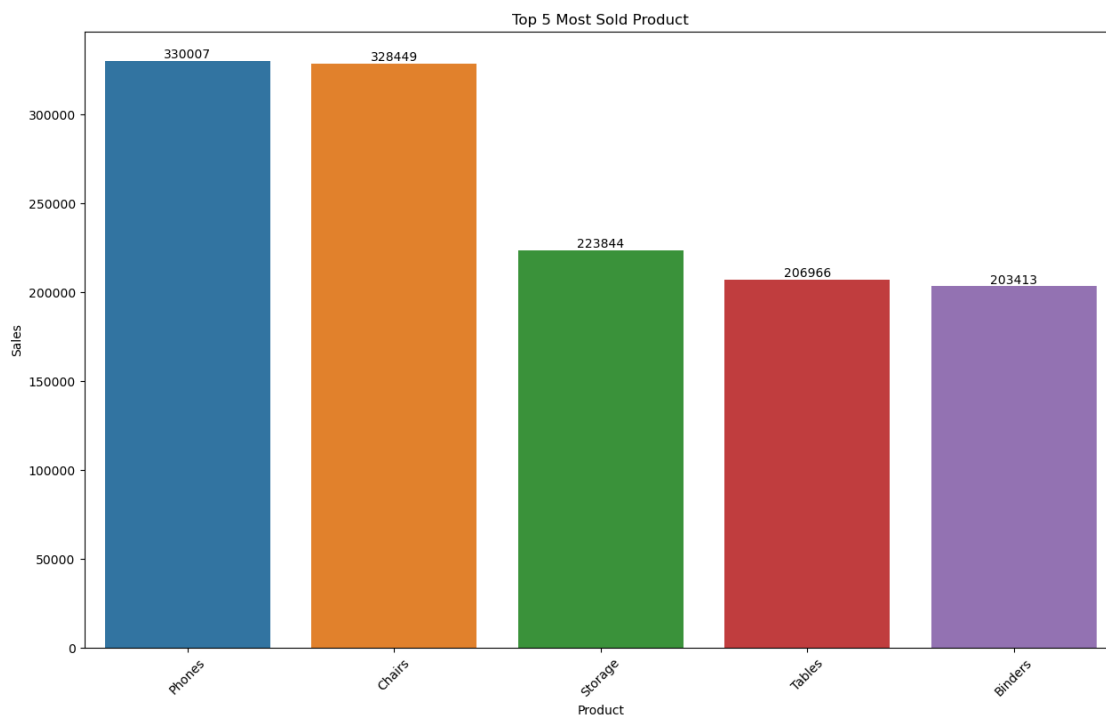
### 1.6.2 2) Sales - Product Wise

Comparing which product had the Most Sales and which Product had the Least Sales

```
[42]: x=df.groupby("Sub-Category")["Sales"].sum().sort_values(ascending=False).  
      ↪reset_index().head(5)  
      print(x)
```

	Sub-Category	Sales
0	Phones	330007.054
1	Chairs	328449.103
2	Storage	223843.608
3	Tables	206965.532
4	Binders	203412.733

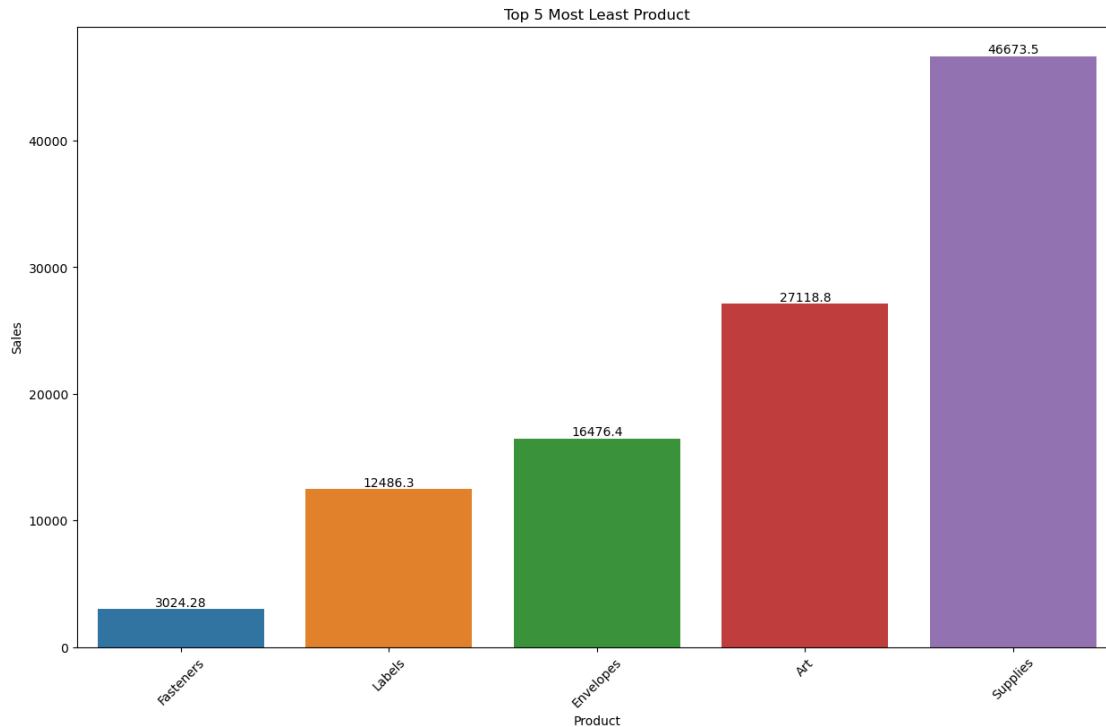
```
[43]: plt.figure(figsize=(15,9))
ax=sns.barplot(x="Sub-Category",y="Sales", data = x)
plt.title("Top 5 Most Sold Product")
plt.xticks(rotation=45)
plt.xlabel("Product")
showlabels(ax)
```



```
[44]: x=df.groupby("Sub-Category")["Sales"].sum().sort_values(ascending=True).
      ↪reset_index().head(5)
print(x)
```

	Sub-Category	Sales
0	Fasteners	3024.280
1	Labels	12486.312
2	Envelopes	16476.402
3	Art	27118.792
4	Supplies	46673.538

```
[45]: plt.figure(figsize=(15,9))
ax=sns.barplot(x="Sub-Category",y="Sales", data = x)
plt.title("Top 5 Most Least Product")
plt.xticks(rotation=45)
plt.xlabel("Product")
showlabels(ax)
```



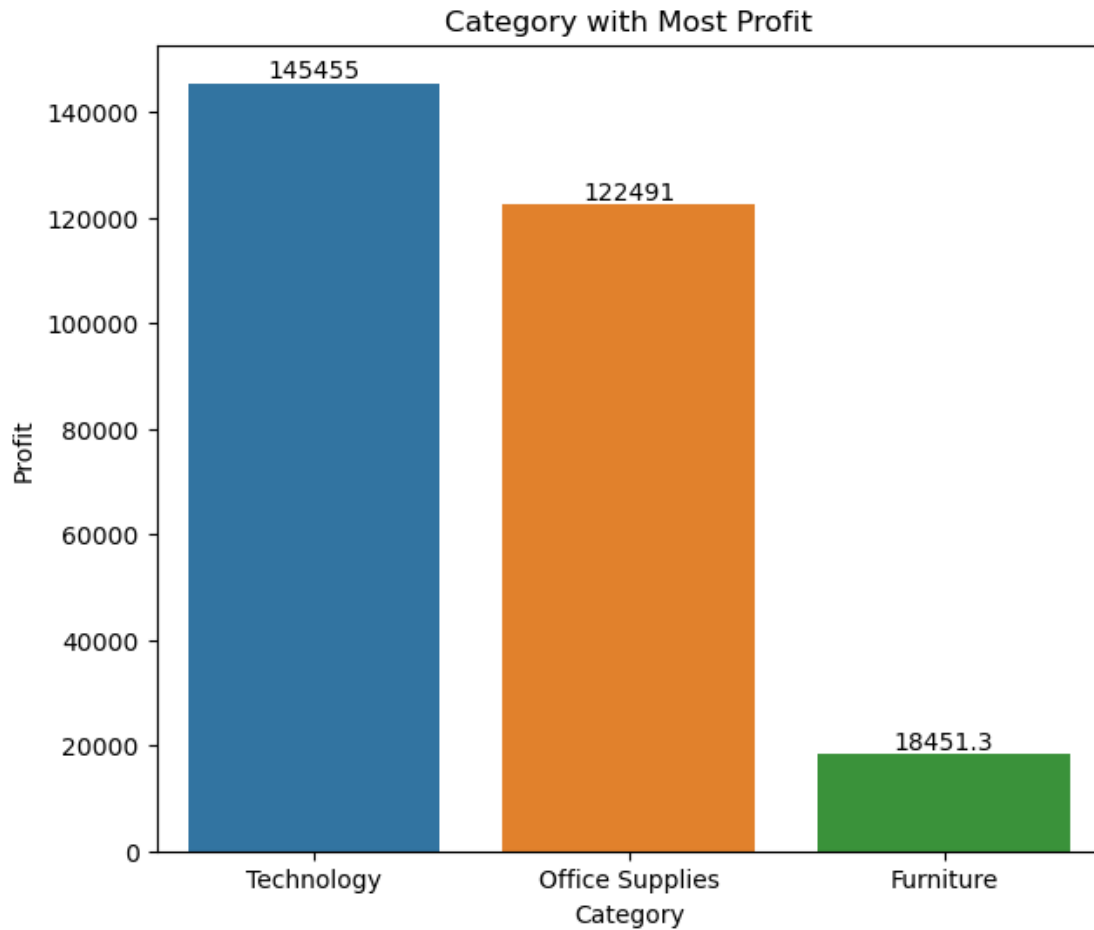
### 1.6.3 3) Profit - Category Wise

Comparing which category had the most profit

```
[46]: cw=df.groupby("Category")["Profit"].sum().sort_values(ascending=False).
      ↪reset_index()
print(cw)
```

	Category	Profit
0	Technology	145454.9481
1	Office Supplies	122490.8008
2	Furniture	18451.2728

```
[47]: plt.figure(figsize=(7,6))
ax=sns.barplot(x="Category",y="Profit", data=cw)
showlabels(ax)
plt.title("Category with Most Profit")
plt.show()
```



#### 1.6.4 4) Profit - Product Wise

```
[48]: x=df.groupby("Sub-Category")["Profit"].sum().sort_values(ascending=False).
      ↪reset_index()
      print(x)
```

	Sub-Category	Profit
0	Copiers	55617.8249
1	Phones	44515.7306
2	Accessories	41936.6357
3	Paper	34053.5693
4	Binders	30221.7633
5	Chairs	26590.1663
6	Storage	21278.8264
7	Appliances	18138.0054
8	Furnishings	13059.1436
9	Envelopes	6964.1767
10	Art	6527.7870

```

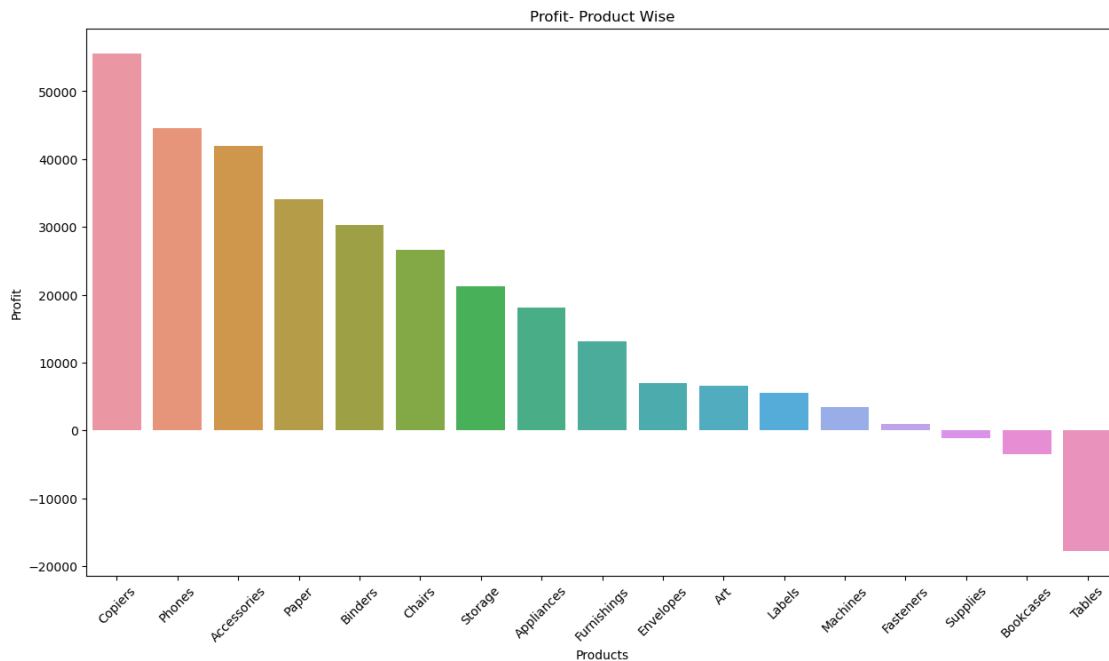
11     Labels    5546.2540
12    Machines   3384.7569
13   Fasteners    949.5182
14    Supplies  -1189.0995
15   Bookcases  -3472.5560
16     Tables -17725.4811

```

```

[49]: plt.figure(figsize=(15,8))
      ax=sns.barplot(x="Sub-Category",y="Profit", data=x)
      plt.title("Profit- Product Wise")
      plt.xlabel("Products")
      plt.xticks(rotation=45)
      plt.show()
      showlabels(ax)

```



## 1.7 2.5 Shipment Analysis

### 1.7.1 2.5.1 Most Preferred/Opted Shipment Mode

```

[50]: x=df["Ship Mode"].value_counts().idxmax()
      print(f"{x} is the most preferred shipment mode.")

```

Standard Class is the most preferred shipment mode.

## 1.8 3. Summary

### 1.8.1 1)Sales Summary

#### **Region West**

Achieved the highest sales, totaling 8,725,457 units

**Top Sales Cities** New York: Contributed 256,368 units in sales.

California: Followed closely with 175,851 units in sales.

#### **Lowest Sales Cities**

Abilene and Elyria: Both cities had only 1 sale each.

---

### 1.8.2 2)Profit Summary

#### **Year-on-Year Profit**

The Superstore's profit is increasing.

#### **Region West**

Led in profit, totaling 108,414 units.

#### **Top Profit Cities**

New York: Generated 62,036 units in profit.

Los Angeles: Followed with 30,440 units in profit.

#### **Lowest Profit Cities**

Philadelphia: Recorded a negative profit of 13,837 units.

Houston: Also had a negative profit of 10,153 units.

---

### 1.8.3 3)Customer Summary

#### **Unique Customers**

There are 793 unique customers.

#### **Average Purchase Order Value**

Each customer's average purchase order value is 229 units.

#### **Top 10 Customers (Based on Quantity of Purchases)**

Adam Shillingsburg: Made 81 purchases.

Adam Hart: Followed with 75 purchases.

---

### 1.8.4 4)Category Summary

#### **Sales by Product**

Supplies: Lead in sales with 46,671.5 units sold.

Ink: Second-highest selling product with 27,118.8 units sold.

Envelopes and Labels: Comparable sales figures, with 16,716.4 and 12,488.3 units sold respectively.

**Beverages:** Despite having the least sales at 3,024.28 units, they still maintain a significant market presence.

### **Top-Selling Products**

**Phones:** Sold 330,007 units.

**Chairs:** Followed closely with 328,449 units.

### **Most Profitable Products**

**Copiers:** Generated 55,617 units in profit.

**Phones:** Followed closely in profitability.

---

## **1.9 4. Conclusion**

The Superstore has demonstrated a strong performance with increasing year-on-year profits, led by the West region and cities like New York and California. However, it's crucial to address the losses in cities like Philadelphia, Houston, and San Antonio.

The customer base is robust with 793 unique customers, but there's potential for growth by encouraging lower-volume customers to increase their purchasing activity. This could boost overall sales and average purchase order value.

In terms of products, Supplies lead the sales, and Phones and Chairs are the top-selling items. However, there's room for growth in the sales of Beverages, Labels, and Envelopes. The Superstore should also focus on increasing the sales of Labels and Fasteners, and reducing the production cost for Bookcases and Tables, which are currently making a loss.

The Technology category has the most sales and profit, indicating a strong market presence. However, the Furniture category, which has the least sales and profit, needs more focus.

In conclusion, while the Superstore is on a positive trajectory, strategic efforts should be made to boost sales in underperforming areas, reduce costs for less profitable products, and encourage increased purchasing activity among lower-volume customers. A deeper analysis of customer behavior and preferences could provide valuable insights to inform these strategies.