TASK - 2

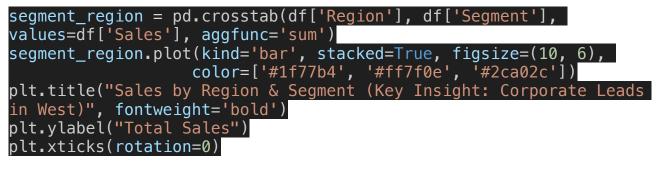
-BY S.A.ABISHEK

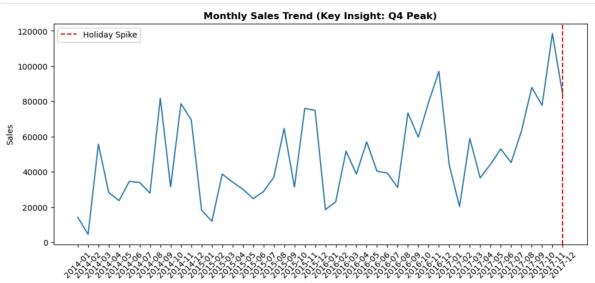
plt.xticks(rotation=45)

1) Upload Superstore.csv document

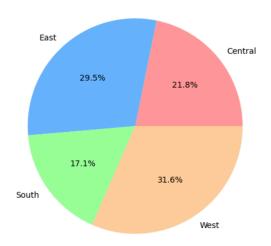
```
2) I used jupyther and tableau both
1)
Jupyther
Code:-
import pandas as pd
encodings = ['latin1', 'ISO-8859-1', 'cp1252', 'utf-8']
for encoding in encodings:
    trv:
        df = pd.read csv("Desktop/Superstore.csv",
encoding=encoding)
        print(f"Success with encoding: {encoding}")
        break
    except UnicodeDecodeError:
        continue
df['Order Date'] = pd.to datetime(df['Order Date'])
Month:-
# Extract month-year and aggregate sales
monthly_sales = df.groupby(df['Order Date'].dt.to_period('M'))
['Sales'].sum().reset index()
monthly_sales['Order Date'] = monthly_sales['Order
Date'].astype(str)
plt.figure(figsize=(12, 5))
sns.lineplot(data=monthly_sales, x='Order
color='#1f77b4')
plt.title("Monthly Sales Trend (Key Insight: Q4 Peak)",
fontweight='bold')
```

```
plt.axvline(x='2017-12', color='red', linestyle='--'
label='Holiday Spike') # Highlight Dec
plt.legend()
plt.show()
profit_by_subcat = df.groupby('Sub-Category')
 'Profit'].sum().sort values()
plt.figure(figsize=(10, 6))
bars = plt.barh(profit_by_subcat.index, profit_by_subcat.values,
                 color=['red' if x < 0 else 'green' for x in
profit by subcat.values])
plt.title("Profit by Sub-Category (Key Insight: Tables are Loss-
Making)", fontweight='bold')
plt.xlabel("Total Profit")
plt.grid(axis='x', linestyle='--'
plt.show()
region_sales = df.groupby('Region')['Sales'].sum()
plt.figure(figsize=(6, 6))
plt.pie(region sales, labels=region sales.index, autopct='%1.1f%
%',
         colors=['#ff9999','#66b3ff','#99ff99','#ffcc99'])
plt.title("Sales Distribution by Region (Key Insight: West
Dominates)", fontweight='bold')
plt.show()
```



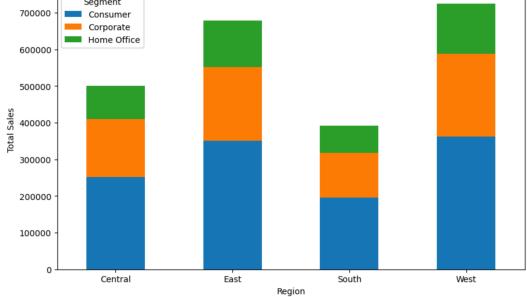


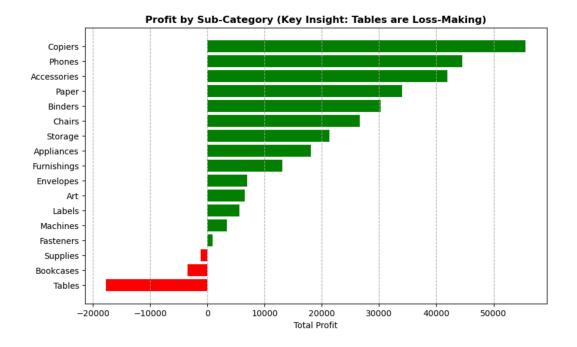
Sales Distribution by Region (Key Insight: West Dominates)



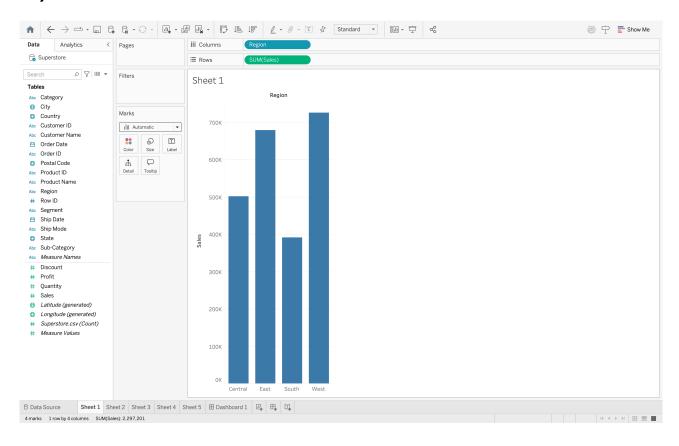
plt.show()

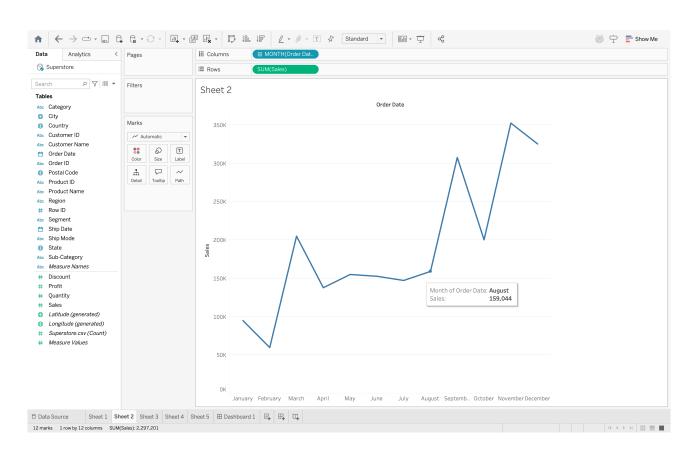


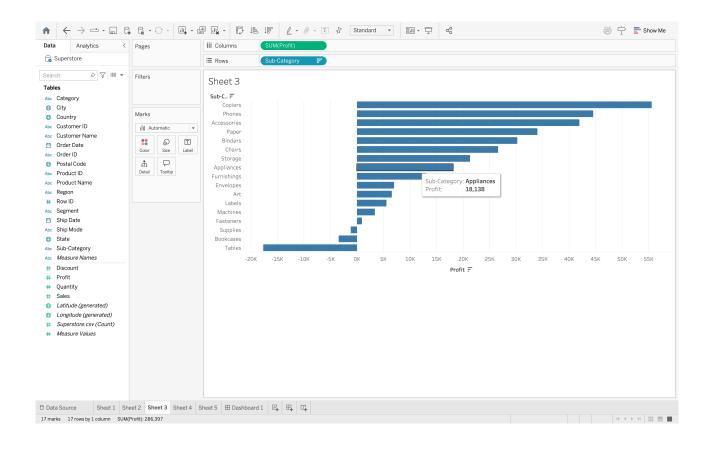


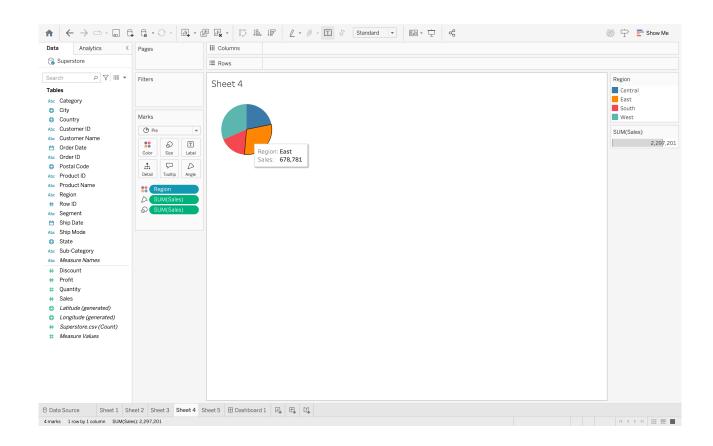


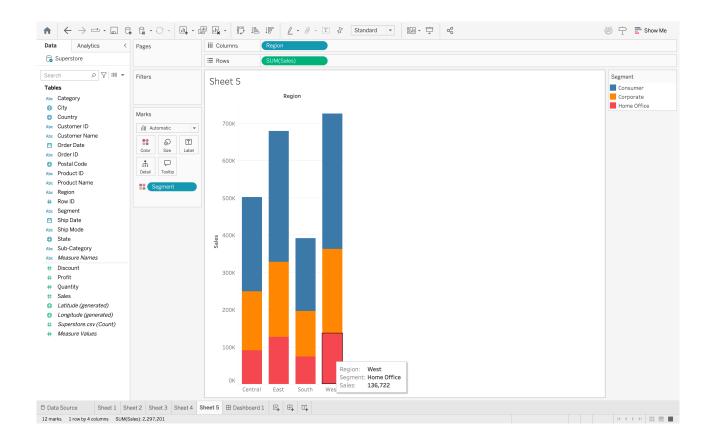
2)TABLEAU:-

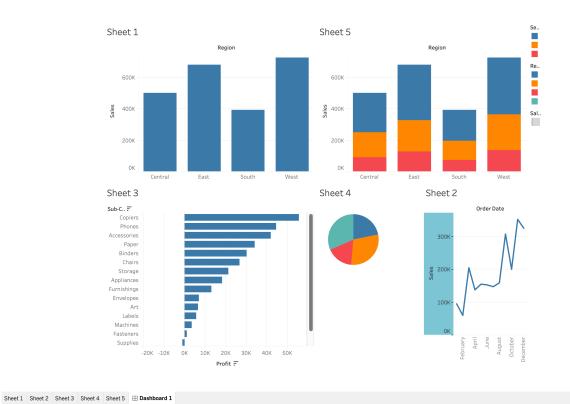












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