df = pd.read_csv('train.csv') df.head()

	Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	Region	Product ID
0	1	CA- 2017- 152156	08/11/2017	11/11/2017	Second Class	CG- 12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420.0	South	FUR-BO- 10001798
1	2	CA- 2017- 152156	08/11/2017	11/11/2017	Second Class	CG- 12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420.0	South	FUR-CH- 10000454
2	3	CA- 2017- 138688	12/06/2017	16/06/2017	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036.0	West	OFF-LA- 10000240
3	4	US- 2016- 108966	11/10/2016	18/10/2016	Standard Class	SO- 20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311.0	South	FUR-TA- 10000577
4	5	US- 2016- 108966	11/10/2016	18/10/2016	Standard Class	SO- 20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311.0	South	OFF-ST- 10000760

Generate code with df Next steps:

View recommended plots

New interactive sheet

df['Order Date'] = pd.to_datetime(df['Order Date'], format='%d/%m/%Y') # Specifying the correct format for day/month/year df['Month-Year'] = df['Order Date'].dt.to_period('M').astype(str)

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```
import matplotlip.pyplot as pit
monthly_sales = df.groupby('Month-Year')['Sales'].sum().reset_index()
plt.figure(figsize=(10, 5))
plt.plot(monthly_sales['Month-Year'], monthly_sales['Sales'], marker='o', color='blue')
plt.xticks(rotation=45)
plt.title('Sales Over Months')
plt.xlabel('Month-Year')
plt.ylabel('Total Sales')
plt.tight_layout()
plt.show()
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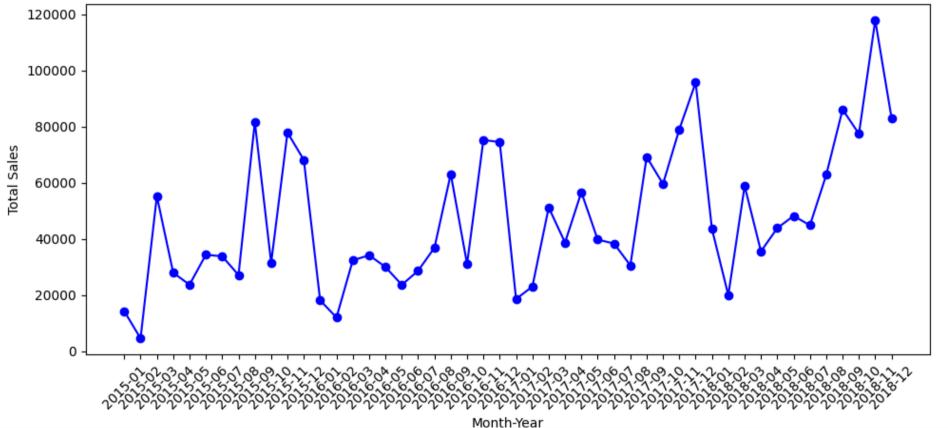
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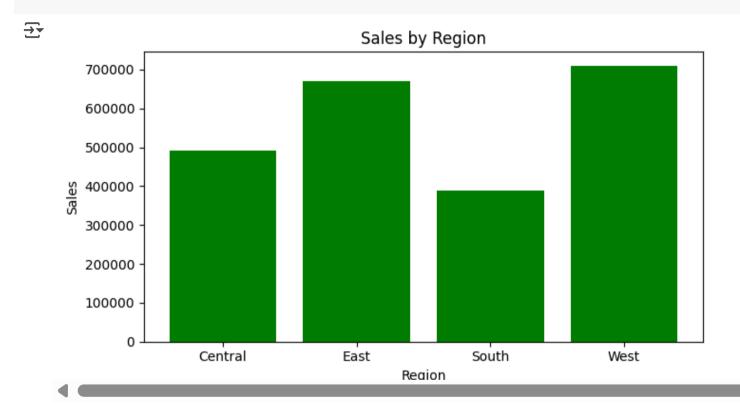
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region_sales = df.groupby('Region')['Sales'].sum().reset_index()

```
plt.figure(figsize=(7, 4))
plt.bar(region_sales['Region'], region_sales['Sales'], color='green')
plt.title('Sales by Region')
plt.xlabel('Region')
plt.ylabel('Sales')
plt.tight_layout()
plt.show()
```



```
category_sales = df.groupby('Category')['Sales'].sum()

plt.figure(figsize=(6,6))
plt.pie(category_sales, labels=category_sales.index, autopct='%1.1f%%', startangle=140, wedgeprops={'width': 0.4})
plt.title('Sales by Category')
plt.show()
```

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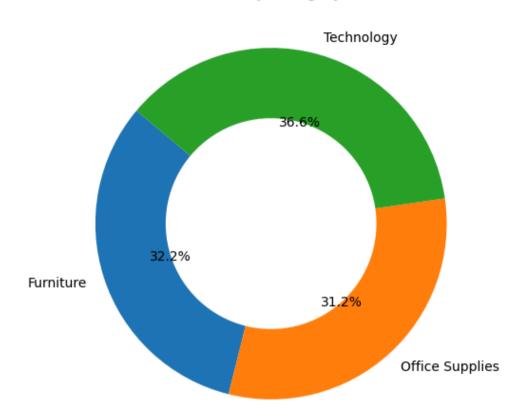
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Insights:

- 1. Sales steadily increased from January to July 2023, peaking in $\ensuremath{\text{J}\iota}$
- 2. The West region had the highest total sales, followed by the East
- 3. Technology category contributed the highest share to total sales.
- 4. The South region had the lowest overall sales during the year.

Insights:

- 1. Sales steadily increased from January to July 2023, peaking in June.
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