```
import pandas as pd
import matplotlib.pyplot as plt
```

```
df = pd.read_csv('sales_data.csv')
df.head()
```

	OrderID	Product	Category	Quantity	Price	Region
0	1	Laptop	Electronics	2	70000	North
1	2	Laptop	Electronics	1	68000	South
2	3	Tablet	Electronics	5	30000	East
3	4	Tablet	Electronics	3	28000	West
4	5	Phone	Electronics	10	15000	North

Next steps: Generate code with df | New interactive sheet

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 10 entries, 0 to 9
Data columns (total 6 columns):
 #   Column    Non-Null Count  Dtype
---  ------    --------------  -----
 0   OrderID   10 non-null     int64
 1   Product   10 non-null     object
 2   Category  10 non-null     object
 3   Quantity  10 non-null     int64
 4   Price     10 non-null     int64
 5   Region    10 non-null     object
dtypes: int64(3), object(3)
memory usage: 612.0+ bytes
```

```
df.describe()
```

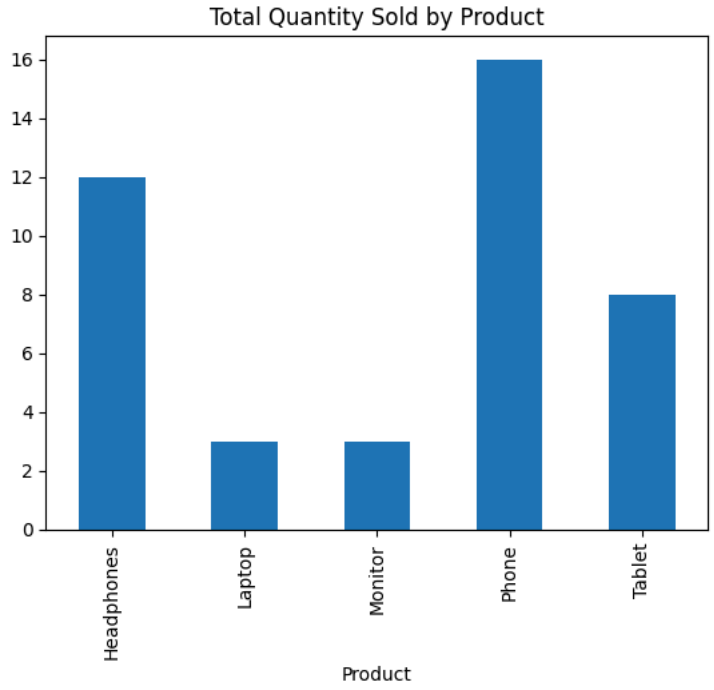
	OrderID	Quantity	Price
count	10.00000	10.000000	10.000000
mean	5.50000	4.200000	25180.000000
std	3.02765	3.047768	24857.183178
min	1.00000	1.000000	1800.000000
25%	3.25000	2.000000	11250.000000
50%	5.50000	3.500000	14500.000000
75%	7.75000	5.750000	29500.000000
max	10.00000	10.000000	70000.000000

```
df.shape
```

```
(10, 6)
```

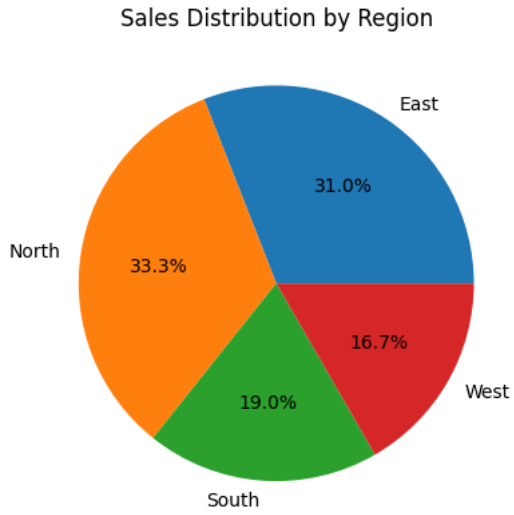
```
sales_by_product = df.groupby('Product')['Quantity'].sum()
print(sales_by_product)
sales_by_product.plot(kind='bar', title='Total Quantity Sold by Product')
plt.show()
```

```
Product
Headphones    12
Laptop         3
Monitor        3
Phone         16
Tablet         8
Name: Quantity, dtype: int64
```




```
sales_by_region = df.groupby('Region')['Quantity'].sum()
print(sales_by_region)
sales_by_region.plot(kind='pie', autopct='%1.1f%%', title='Sales Distribution by Region')
plt.ylabel('')
plt.show()
```

```
Region
East     13
North    14
South     8
West      7
Name: Quantity, dtype: int64
```




```
high_sales = df[df['Quantity'] > 5]
high_sales
```

	OrderID	Product	Category	Quantity	Price	Region
4	5	Phone	Electronics	10	15000	North
5	6	Phone	Electronics	6	14000	South
6	7	Headphones	Accessories	8	2000	East

Next steps: Generate code with high_sales | New interactive sheet

```
# Example using loc[]
df.loc[0:3, ['Product','Quantity']]
```

	Product	Quantity
0	Laptop	2
1	Laptop	1
2	Tablet	5
3	Tablet	3

```
# Example using iloc[]
df.iloc[0:3, 1:3]
```

	Product	Category
0	Laptop	Electronics
1	Laptop	Electronics
2	Tablet	Electronics

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