

File Edit Selection View Go Run Terminal Help ← → 🔍 customer_analysis

EXPLORER

CUSTOMER_ANALYSIS

- analysis.py
- customer_churn.csv
- sales_analysis.csv
- sales_data

analysis.py > ...

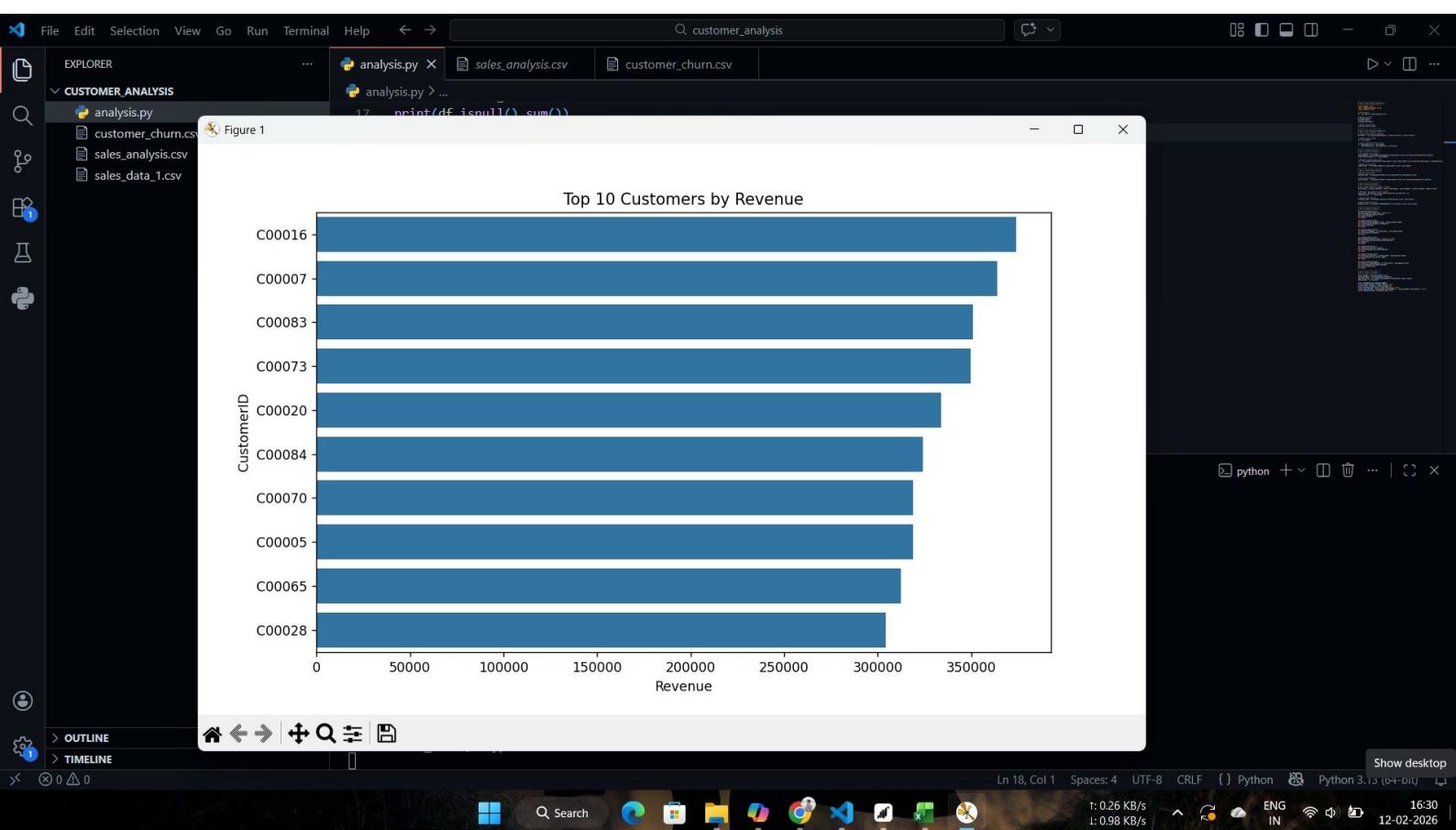
```
17 print(df.isnull().sum())
18 #
19 # -----
```

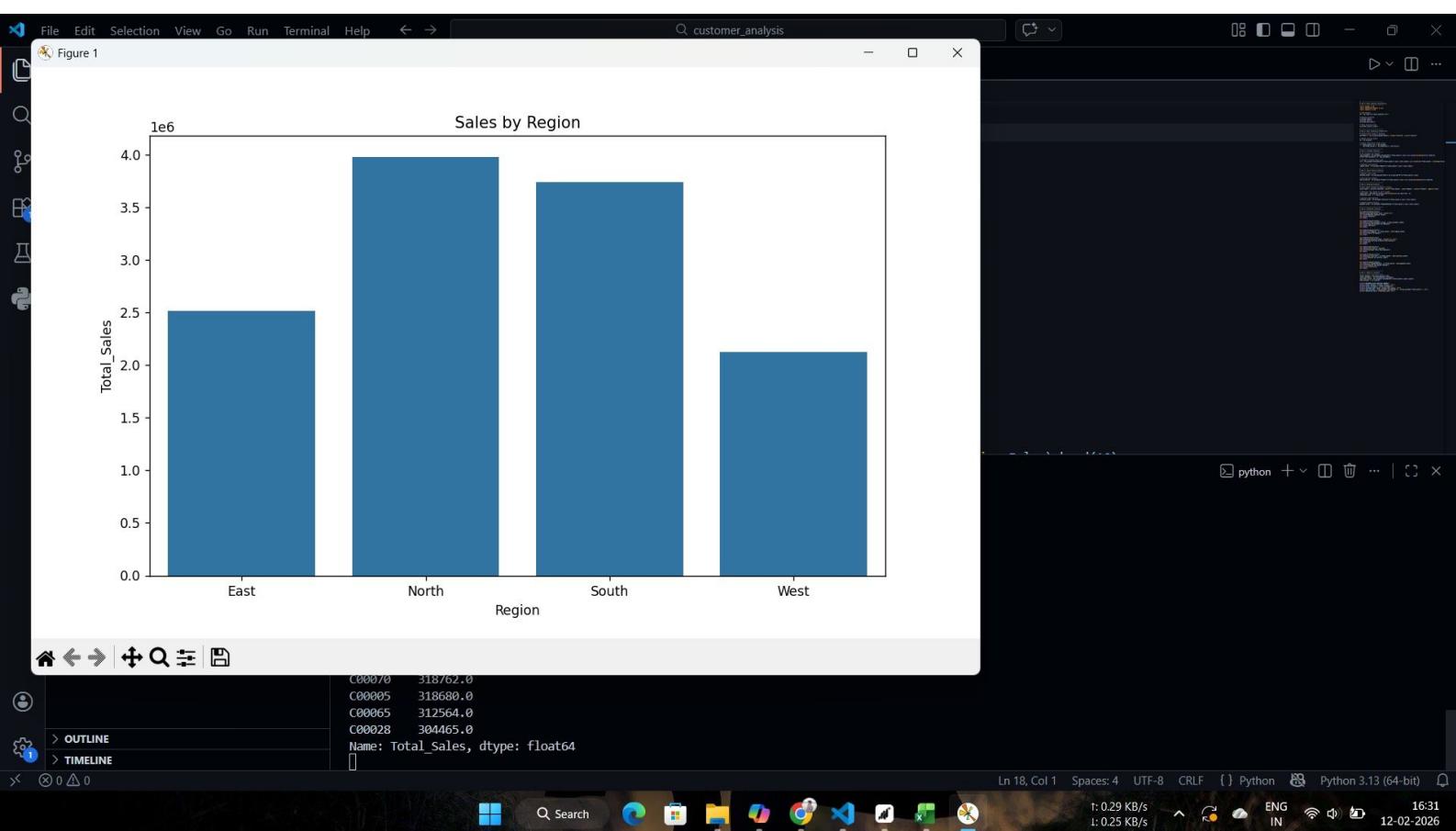
Monthly Revenue Trend

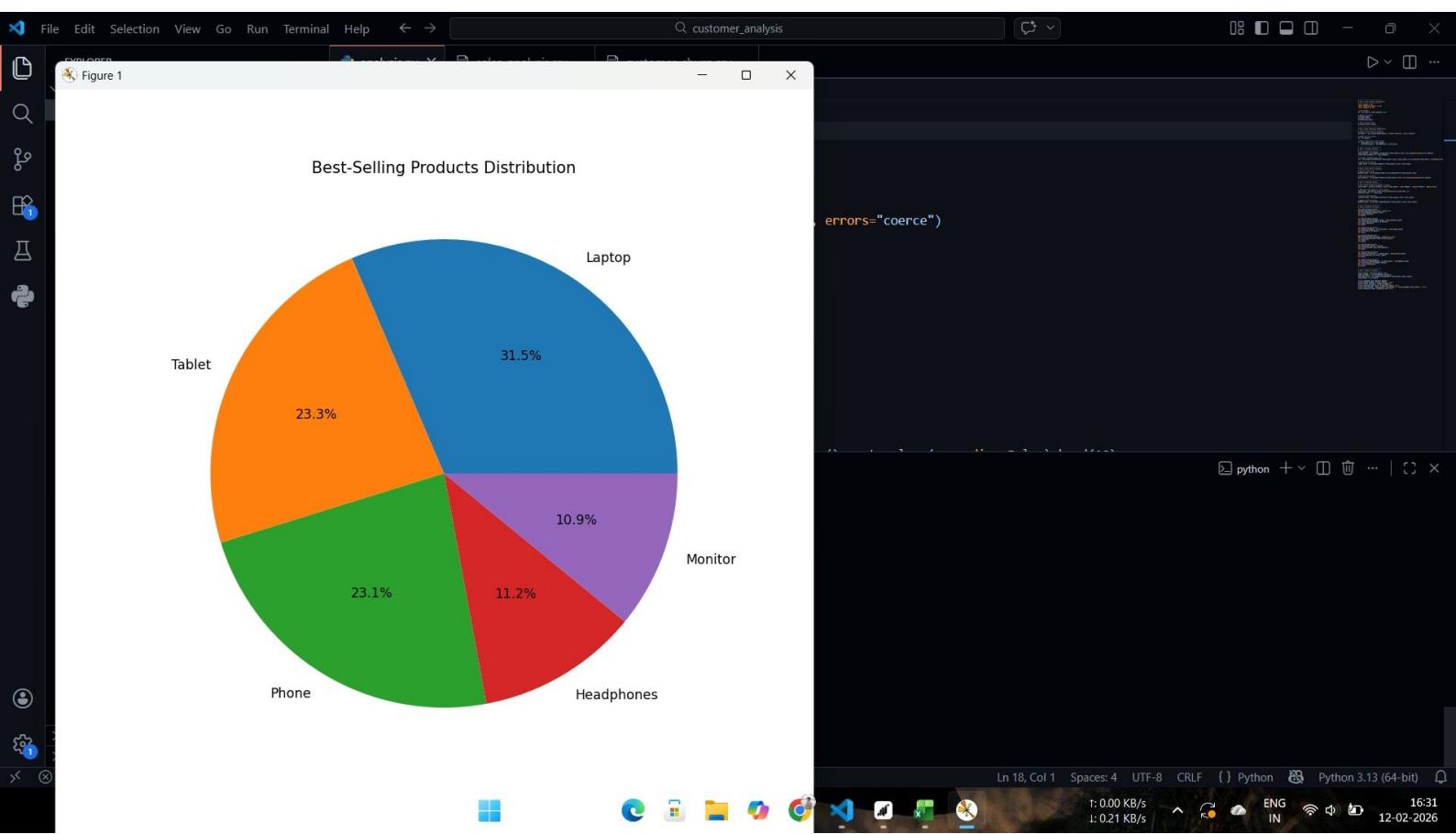
Date	Revenue (1e6)
Jan	4.1
Feb	2.7
Mar	4.5
Apr	1.0

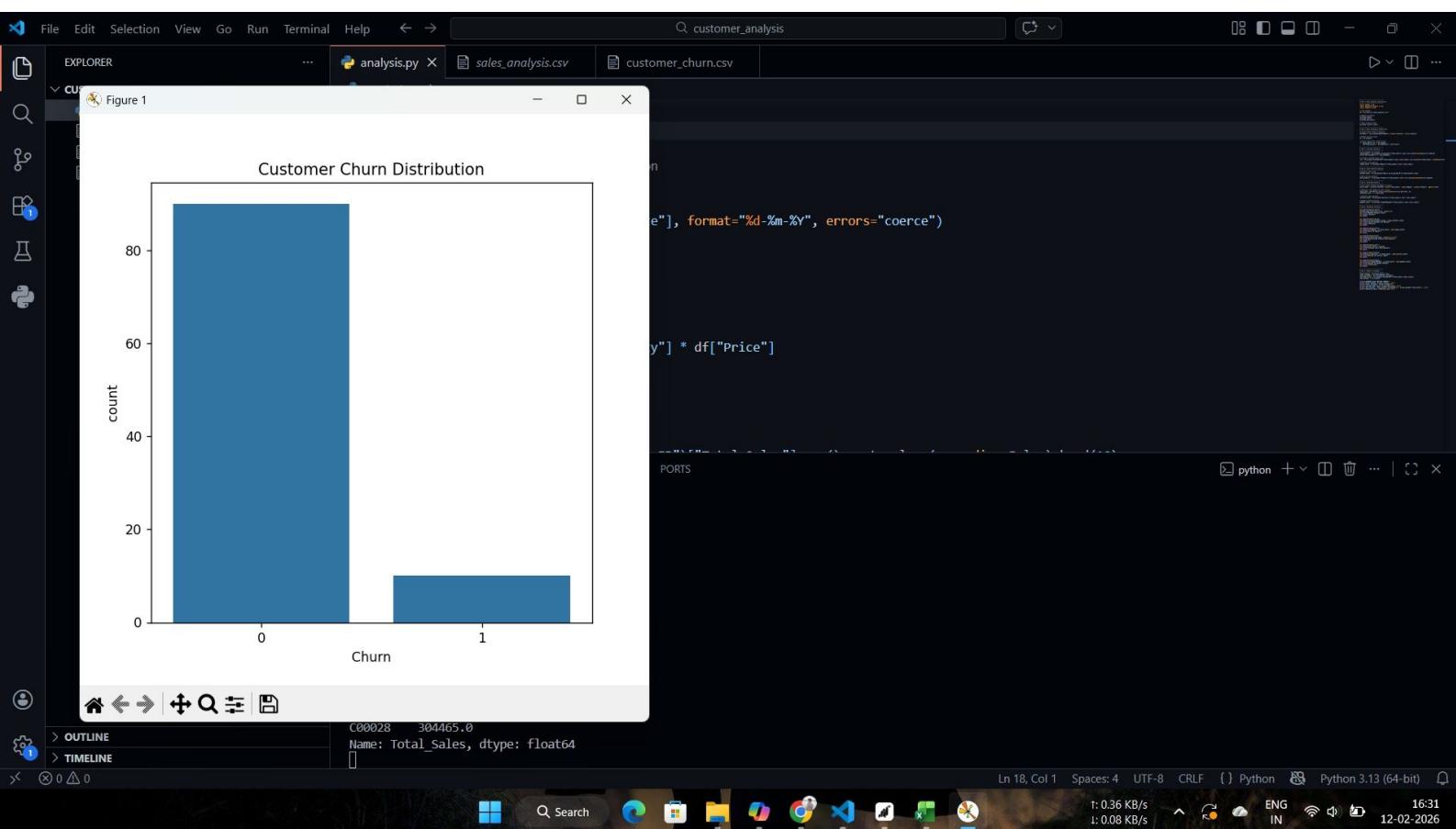
python + ⚡ ⚡ ⚡ ⚡ ⚡

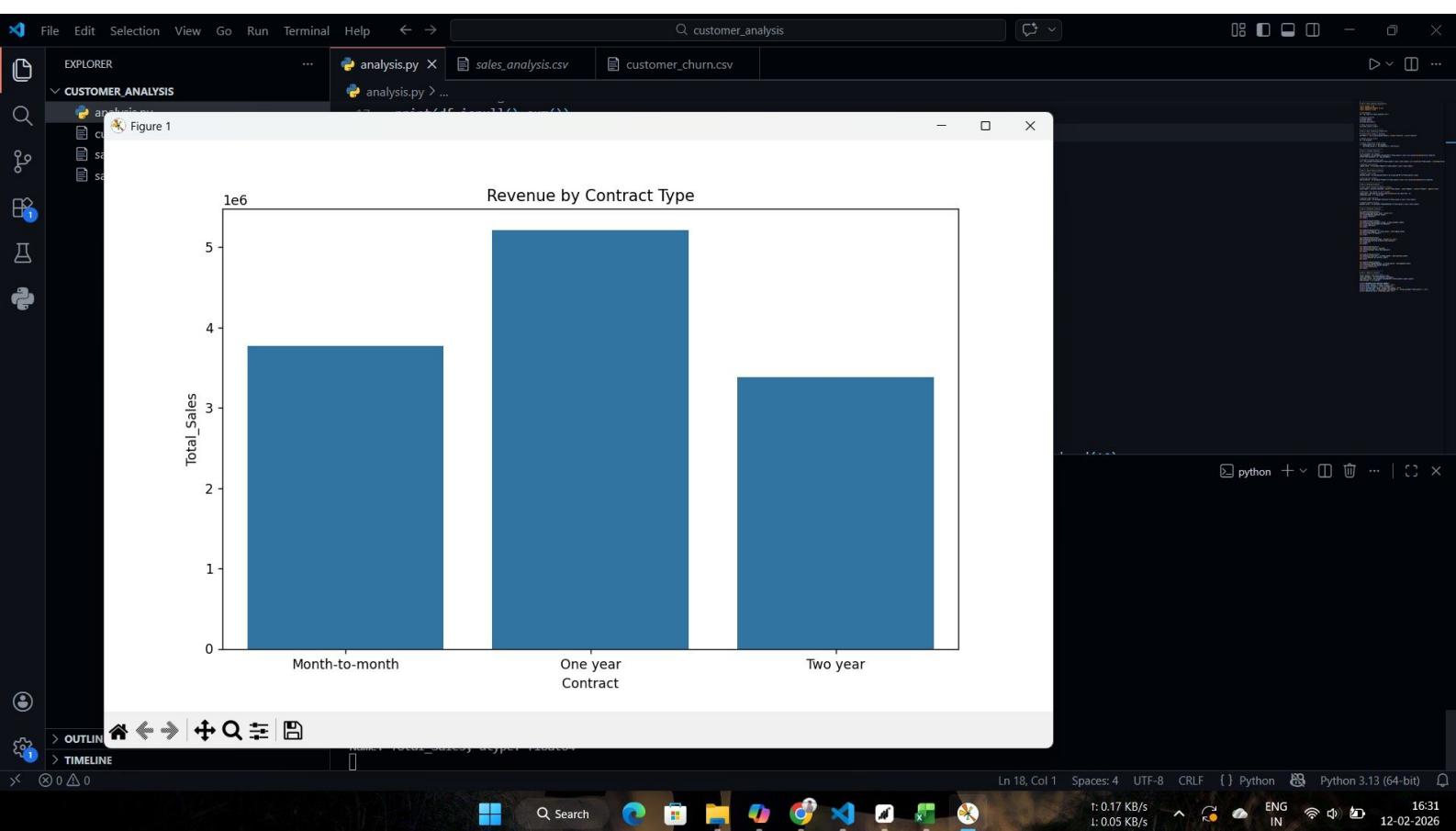
16:30 12-02-2026













```
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\khana\vscode\customer_analysis> & "C:\Program Files\Python313\python.exe" c:/Users/khana/.vscode/customer_analysis/analysis.py
      Date Product  Quantity  Price Region Total_Sales ... TotalCharges Contract PaymentMethod PaperlessBilling SeniorCitizen Churn
0 01-01-2024    Phone      7.0  37300.0  East   261100.0 ...      1548  One year  Credit Card        No        1        0
1 02-01-2024 Headphones      4.0  15406.0 North   61624.0 ...      1753 Month-to-month  Electronic Check      Yes        1        0
2 03-01-2024    Phone      2.0  21746.0 West   43492.0 ...      1455 Two year  Credit Card        No        1        0
3 04-01-2024 Headphones      1.0  30895.0 East   30895.0 ...      7158 Month-to-month  Electronic Check      No        1        0
4 05-01-2024    Laptop      8.0  39835.0 North  318680.0 ...      1023 One year  Electronic Check      No        1        0
[5 rows x 15 columns]
<class 'pandas.DataFrame'>
RangeIndex: 500 entries, 0 to 499
Data columns (total 15 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   Date             100 non-null    str    
 1   Product          100 non-null    str    
 2   Quantity         100 non-null    float64
 3   Price            100 non-null    float64
 4   Region           100 non-null    str    
 5   Total_Sales      100 non-null    float64
 6   CustomerID       500 non-null    str    
 7   Tenure           500 non-null    int64  
 8   MonthlyCharges  500 non-null    int64  
 9   TotalCharges    500 non-null    int64  
 10  Contract          500 non-null    str    
 11  PaymentMethod    500 non-null    str    
 12  PaperlessBilling 500 non-null    str    
 13  SeniorCitizen    500 non-null    int64  
 14  Churn            500 non-null    int64  
dtypes: float64(3), int64(5), str(7)
memory usage: 58.7 KB
None
      Quantity  Price  Total_Sales  Tenure  MonthlyCharges  TotalCharges  SeniorCitizen  Churn
count  100.000000  100.000000  100.000000  500.000000  500.000000  500.000000  500.000000
mean   4.780000  25808.510000  123650.480000  36.532000  113.636000  4237.882000  0.498000  0.106000
std    2.588163  13917.630242  100161.085275  20.667057  51.79903  2260.619837  0.500497  0.388146
min    1.000000  1308.000000  6540.000000  1.000000  20.000000  159.000000  0.000000  0.000000
25%   2.750000  14965.250000  39517.500000  19.000000  67.000000  2237.250000  0.000000  0.000000
50%   5.000000  24192.000000  97955.500000  37.000000  115.000000  4182.500000  0.000000  0.000000
75%   7.000000  38682.250000  175792.500000  54.000000  158.000000  6266.750000  1.000000  0.000000
max   9.000000  49930.000000  373932.000000  71.000000  199.000000  7992.000000  1.000000  1.000000
Ln 18, Col 1  Spaces: 4  UTF-8  CRLF  { } Python  🔍  Python 3.13 (64-bit)
          t: 0.14 KB/s  l: 0.13 KB/s  ENG  IN  16:32  12-02-2026
```

