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PS C:\Users\yash\OneDrive\Desktop\vs_code_practice\Rnw> python retail_analyzer.py
Enter CSV file path: c:\Users\yash\OneDrive\Desktop\vs_code_practice\Rnw\retail_sales.csv
Data loaded successfully
Data cleaned
```

Menu

1. Calculate Metrics
2. Category Analysis
3. Date Analysis
4. Filter Data
5. Display Summary
6. Visualize Data
7. Exit

Enter choice: 1

Metrics

Total Sales: 936.0  
Average Sales: 93.6  
Maximum Sale: 135.0  
Minimum Sale: 36.0  
Most Popular Product: USB-C Cable

Menu

1. Calculate Metrics
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Enter choice: 2

Category Wise Sales

Category	
Apparel	240.0
Electronics	305.0
Fitness	195.0
Grocery	126.0
Home Decor	70.0

Home Decor        70.0  
Name: Total Sales, dtype: float64

Menu

1. Calculate Metrics
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7. Exit

Enter choice: 3

Date Wise Sales

Date

2026-01-01      160.0  
2026-01-02      175.0  
2026-01-03      255.0  
2026-01-04      240.0  
2026-01-05      106.0

Name: Total Sales, dtype: float64

Menu

1. Calculate Metrics
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Enter choice: 4

Enter category or press Enter: Electronics

Start date YYYY-MM-DD or press Enter: 2026-01-01

End date YYYY-MM-DD or press Enter: 2026-01-05

	Date	Product	Category	Price	Quantity Sold	Total Sales
0	2026-01-01	Wireless Mouse	Electronics	25.0	4	100.0
2	2026-01-02	Mechanical Keyboard	Electronics	85.0	1	85.0
6	2026-01-04	USB-C Cable	Electronics	12.0	10	120.0

Menu

1. Calculate Metrics
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5. Display Summary
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7. Exit

Enter choice: 5

Summary

	Date	Product	Category	Price	Quantity Sold	Total Sales
count	10	10	10	10.000000	10.000000	10.000000
unique	NaN	10	5	NaN	NaN	NaN
top	NaN	Wireless Mouse	Electronics	NaN	NaN	NaN
freq	NaN	1	3	NaN	NaN	NaN
mean	2026-01-03 00:00:00	NaN	NaN	39.450000	4.200000	93.600000
min	2026-01-01 00:00:00	NaN	NaN	4.500000	1.000000	36.000000
25%	2026-01-02 00:00:00	NaN	NaN	18.500000	2.000000	73.750000
50%	2026-01-03 00:00:00	NaN	NaN	27.500000	3.500000	95.000000
75%	2026-01-04 00:00:00	NaN	NaN	42.500000	5.750000	120.000000
max	2026-01-05 00:00:00	NaN	NaN	120.000000	10.000000	135.000000
std	NaN	NaN	NaN	36.094359	3.047768	31.510845

Menu

1. Calculate Metrics
2. Category Analysis
3. Date Analysis
4. Filter Data
5. Display Summary
6. Visualize Data
7. Exit

Enter choice: 6

Menu

1. Calculate Metrics
2. Category Analysis
3. Date Analysis
4. Filter Data
5. Display Summary
6. Visualize Data
7. Exit

Enter choice: 7

Program Ended

PS C:\Users\yash\OneDrive\Desktop\vs\_code\_practice\Nw> |



