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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
2. Category Analysis
3. Date Analysis
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5. Display Summary
6. Visualize Data
7. Exit
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
2. Category Analysis
3. Date Analysis
4. Filter Data
5. Display Summary
6. Visualize Data
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
2. Category Analysis
3. Date Analysis
4. Filter Data
5. Display Summary
6. Visualize Data
7. Exit
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
2. Category Analysis
3. Date Analysis
4. Filter Data
5. Display Summary
6. Visualize Data
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
mean	2026-01-03 00:00:00		NaN	39.450000	4.200000	93.600000
min	2026-01-01 00:00:00		NaN	4.500000	1.000000	36.000000
25%	2026-01-02 00:00:00		NaN	18.500000	2.000000	73.750000
50%	2026-01-03 00:00:00		NaN	27.500000	3.500000	95.000000
75%	2026-01-04 00:00:00		NaN	42.500000	5.750000	120.000000
max	2026-01-05 00:00:00		NaN	120.000000	10.000000	135.000000
std	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
```

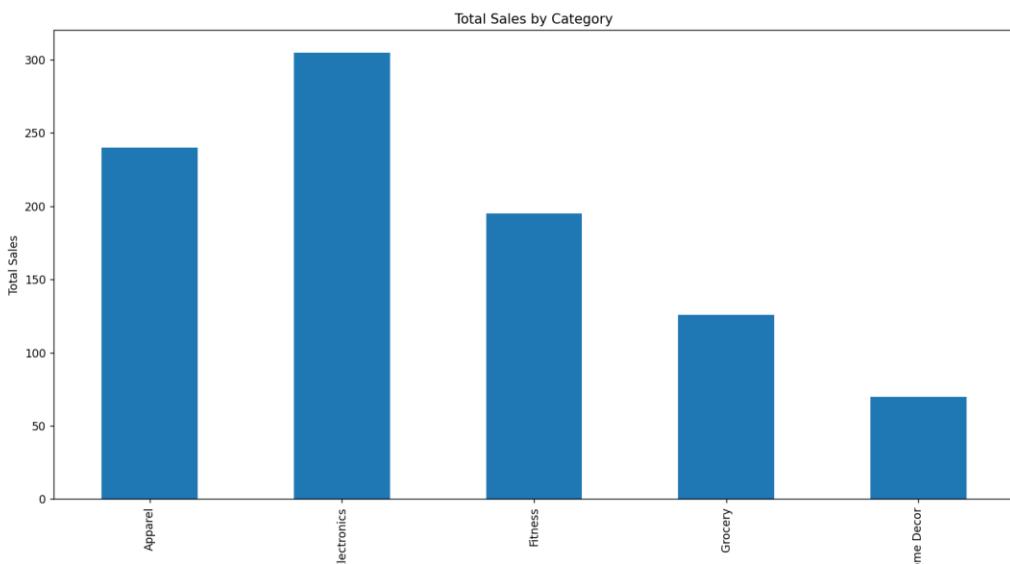
#### Menu

```
1. Calculate Metrics
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7. Exit
```

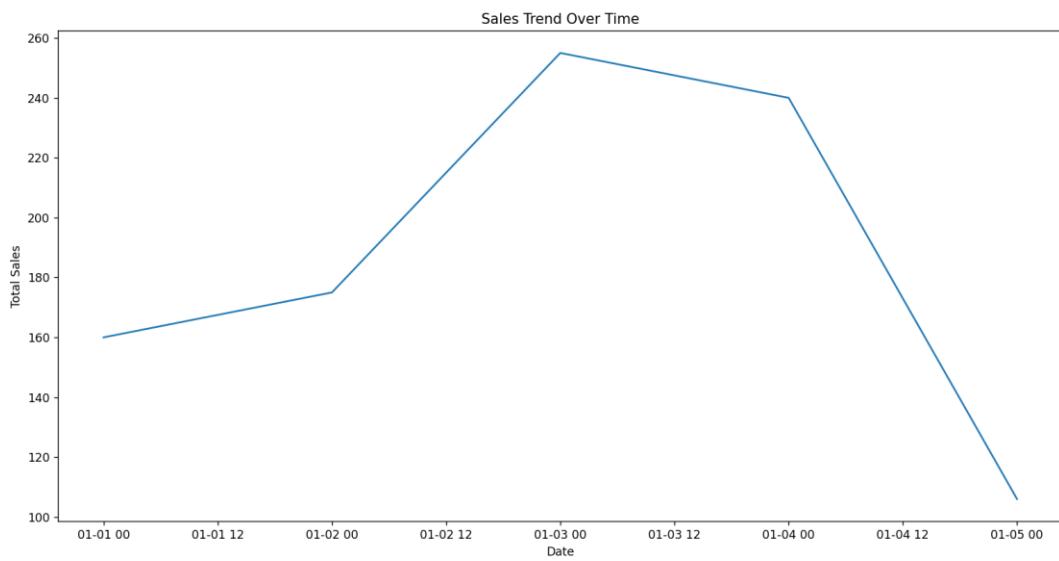
```
Enter choice: 7
```

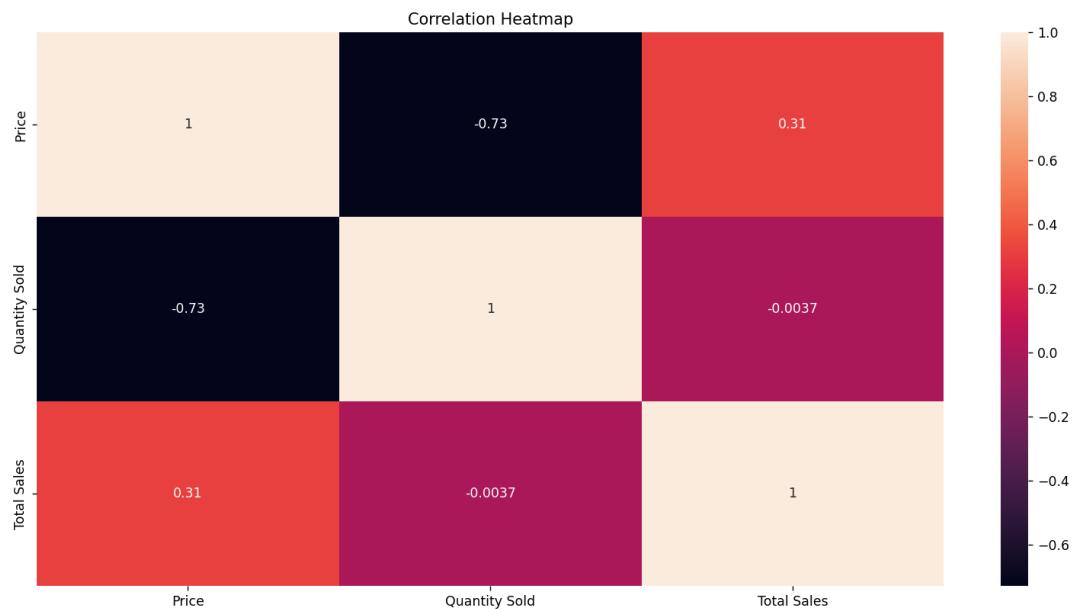
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Program Ended
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PS C:\Users\yash\OneDrive\Desktop\vs_code_practice\RnW>
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Back Forward Search Filter





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