Task 1: Exploratory Data Analysis (EDA) Report

1. General Data Summary

Number of Customers: 200

Number of Products: 100

Number of Transactions: 1000

Data Summary for Customers:

	CustomerID	CustomerName	Region	SignupDate
count	200	200	200	200
unique	200	200	4	179
top	C0001	Lawrence Carroll	South America	2024-11-11
freq	1	1	59	3

Data Summary for Products:

	Price
count	100.000000
mean	267.551700
std	143.219383
min	16.080000
25%	147.767500
50%	292.875000
75%	397.090000
max	497.760000

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Data Summary for Transactions:

	Quantity	TotalValue	Price
count	1000.000000	1000.000000	1000.00000
mean	2.537000	689.995560	272.55407
std	1.117981	493.144478	140.73639
min	1.000000	16.080000	16.08000
25%	2.000000	295.295000	147.95000
50%	3.000000	588.880000	299.93000
75%	4.000000	1011.660000	404.40000
max	4.000000	1991.040000	497.76000

2. Unique Counts
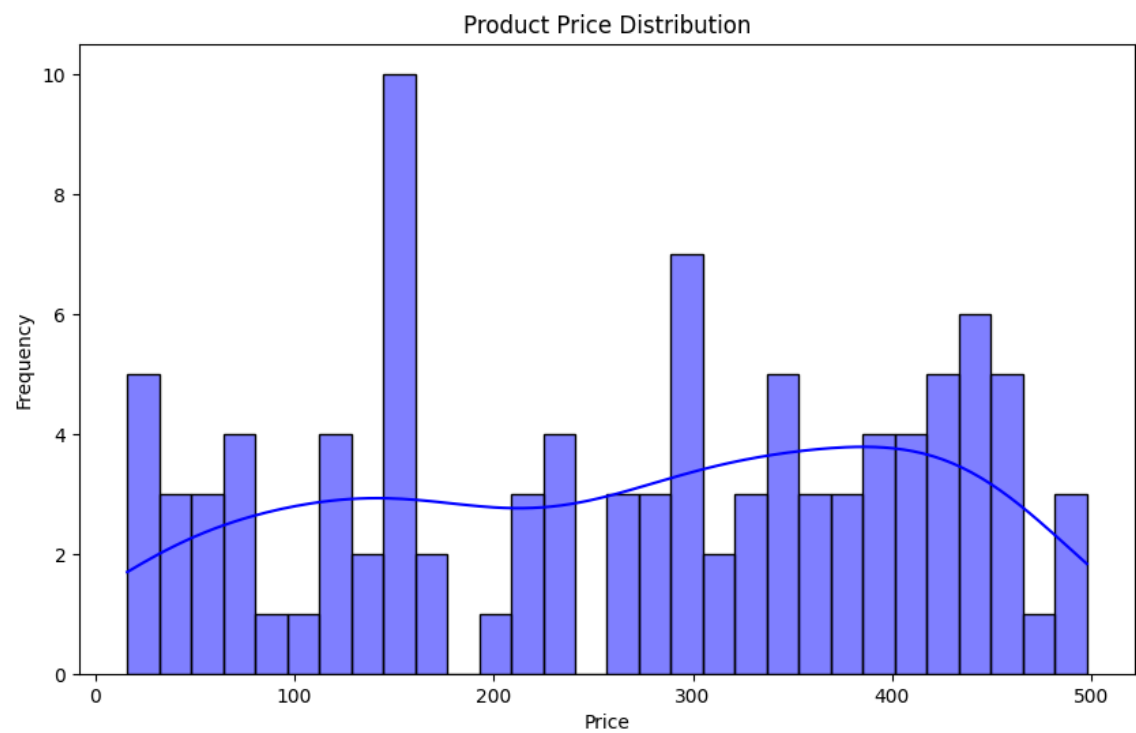
Number of Unique Customers: 200

Number of Unique Products: 100

Number of Transactions: 1000

3. Distribution of Product Prices

Product Price Distribution

4. Sales by Region

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Total Sales by Region