

Output

Dataset Shape: (401604, 9)

Dataset Info:

<class 'pandas.core.frame.DataFrame'>

RangeIndex: 401604 entries, 0 to 401603

Data columns (total 9 columns):

| # | Column | Non-Null Count | Dtype |
|---|-------------|-----------------|---------|
| 0 | InvoiceNo | 401604 non-null | object |
| 1 | StockCode | 401604 non-null | object |
| 2 | Description | 401604 non-null | object |
| 3 | Quantity | 401604 non-null | int64 |
| 4 | InvoiceDate | 401604 non-null | object |
| 5 | UnitPrice | 401604 non-null | float64 |
| 6 | CustomerID | 401604 non-null | float64 |
| 7 | Country | 401604 non-null | object |
| 8 | Total_Sales | 401604 non-null | float64 |

dtypes: float64(3), int64(1), object(5)

memory usage: 27.6+ MB

None

First 5 Rows:

| | InvoiceNo | StockCode | Description | Quantity | |
|---|-----------|-----------|-------------------------------------|----------|--|
| 0 | 536365 | 85123A | WHITE HANGING HEART T-LIGHT HOLDER | 6 | |
| 1 | 536365 | 71053 | WHITE METAL LANTERN | 6 | |
| 2 | 536365 | 84406B | CREAM CUPID HEARTS COAT HANGER | 8 | |
| 3 | 536365 | 84029G | KNITTED UNION FLAG HOT WATER BOTTLE | 6 | |
| 4 | 536365 | 84029E | RED WOOLLY HOTTIE WHITE HEART. | 6 | |

| | InvoiceDate | UnitPrice | CustomerID | Country | Total_Sales |
|---|---------------------|-----------|------------|----------------|-------------|
| 0 | 2010-12-01 08:26:00 | 2.55 | 17850.0 | United Kingdom | 15.30 |
| 1 | 2010-12-01 08:26:00 | 3.39 | 17850.0 | United Kingdom | 20.34 |
| 2 | 2010-12-01 08:26:00 | 2.75 | 17850.0 | United Kingdom | 22.00 |
| 3 | 2010-12-01 08:26:00 | 3.39 | 17850.0 | United Kingdom | 20.34 |
| 4 | 2010-12-01 08:26:00 | 3.39 | 17850.0 | United Kingdom | 20.34 |

Missing Values:

InvoiceNo 0
 StockCode 0
 Description 0
 Quantity 0
 InvoiceDate 0
 UnitPrice 0
 CustomerID 0
 Country 0
 Total_Sales 0
 Year 0
 Month 0
 dtype: int64

Summary Statistics:

| | Quantity | InvoiceDate | UnitPrice \ |
|-------|---------------|-------------------------------|---------------|
| count | 401604.000000 | 401604 | 401604.000000 |
| mean | 12.183273 | 2011-07-10 12:08:23.848567552 | 3.474064 |
| min | -80995.000000 | 2010-12-01 08:26:00 | 0.000000 |
| 25% | 2.000000 | 2011-04-06 15:02:00 | 1.250000 |
| 50% | 5.000000 | 2011-07-29 15:40:00 | 1.950000 |
| 75% | 12.000000 | 2011-10-20 11:58:30 | 3.750000 |

| | | | |
|-----|--------------|---------------------|--------------|
| max | 80995.000000 | 2011-12-09 12:50:00 | 38970.000000 |
| std | 250.283037 | NaN | 69.764035 |

| | CustomerID | Total_Sales | Year | Month |
|-------|---------------|----------------|---------------|---------------|
| count | 401604.000000 | 401604.000000 | 401604.000000 | 401604.000000 |
| mean | 15281.160818 | 20.613638 | 2010.934378 | 7.595407 |
| min | 12346.000000 | -168469.600000 | 2010.000000 | 1.000000 |
| 25% | 13939.000000 | 4.250000 | 2011.000000 | 5.000000 |
| 50% | 15145.000000 | 11.700000 | 2011.000000 | 8.000000 |
| 75% | 16784.000000 | 19.800000 | 2011.000000 | 11.000000 |
| max | 18287.000000 | 168469.600000 | 2011.000000 | 12.000000 |
| std | 1714.006089 | 430.352218 | 0.247620 | 3.417451 |

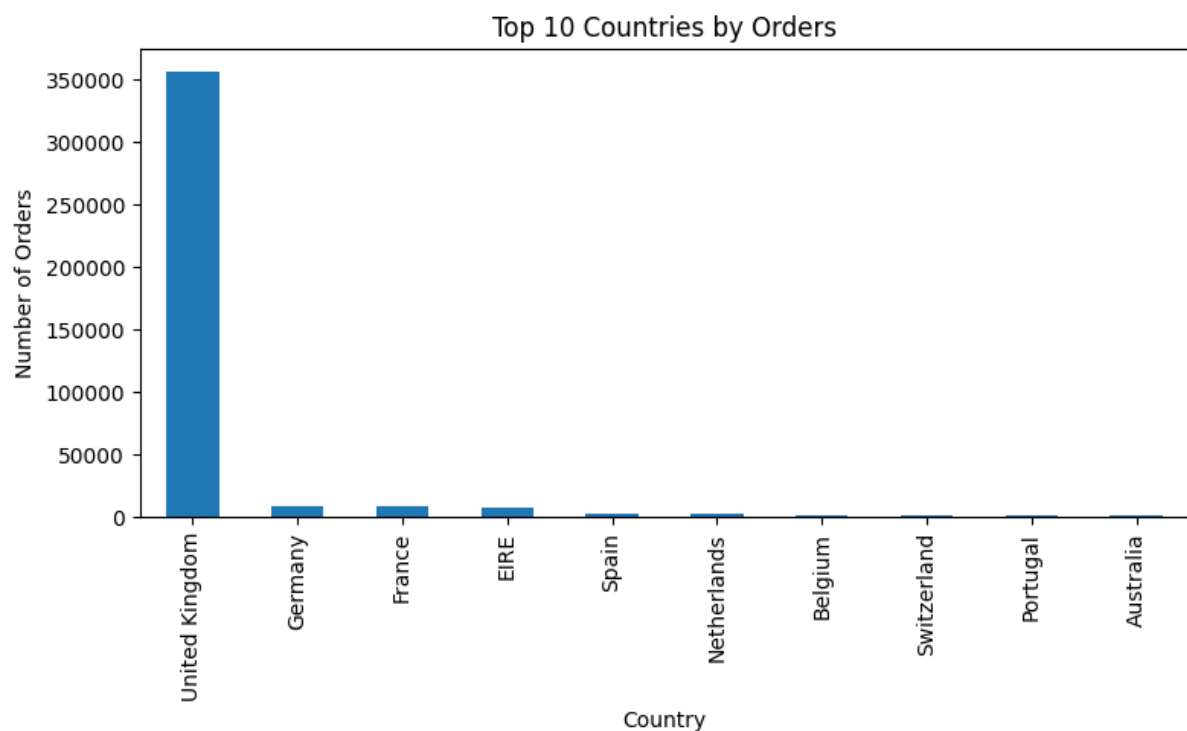
===== KPI SUMMARY =====

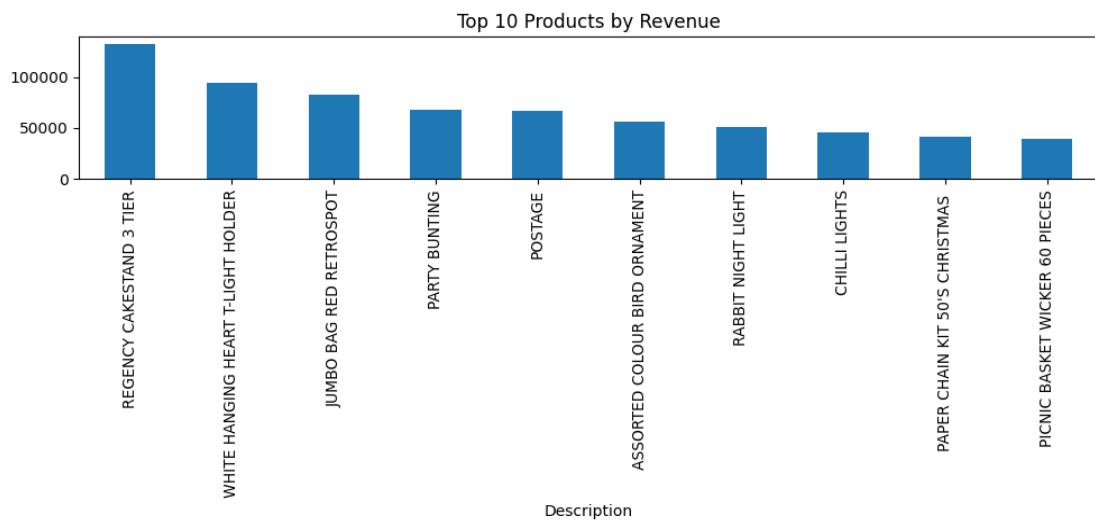
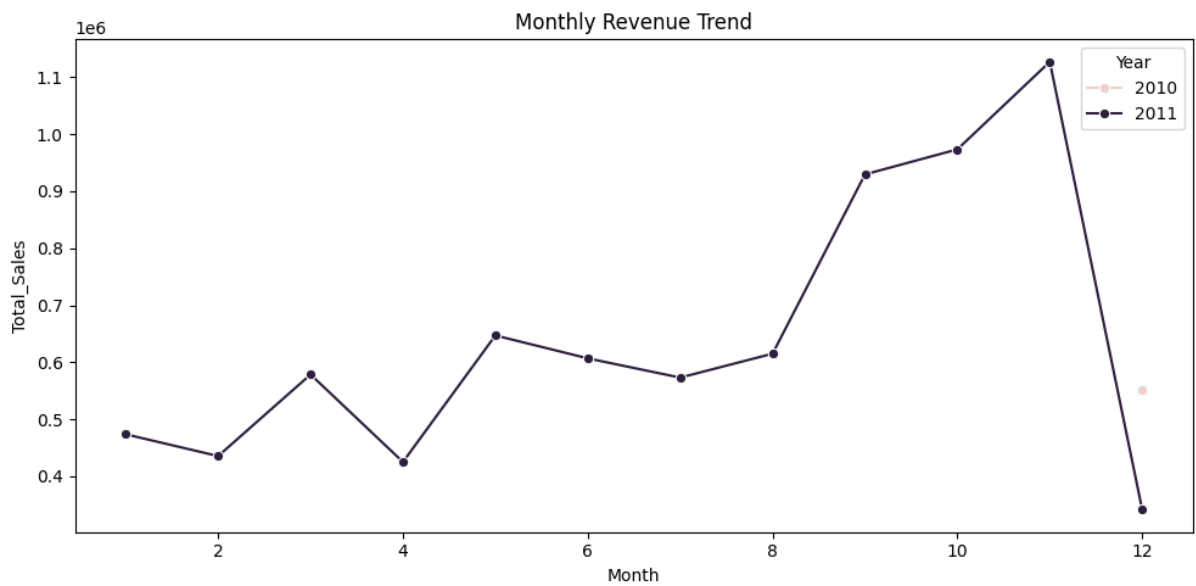
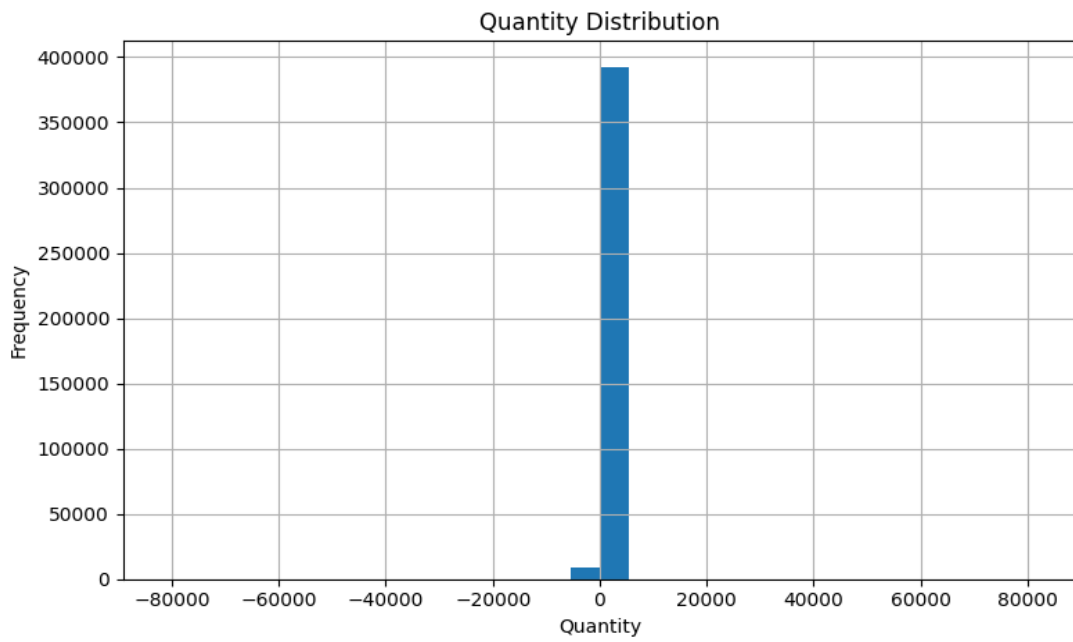
Total Revenue: 8278519.42

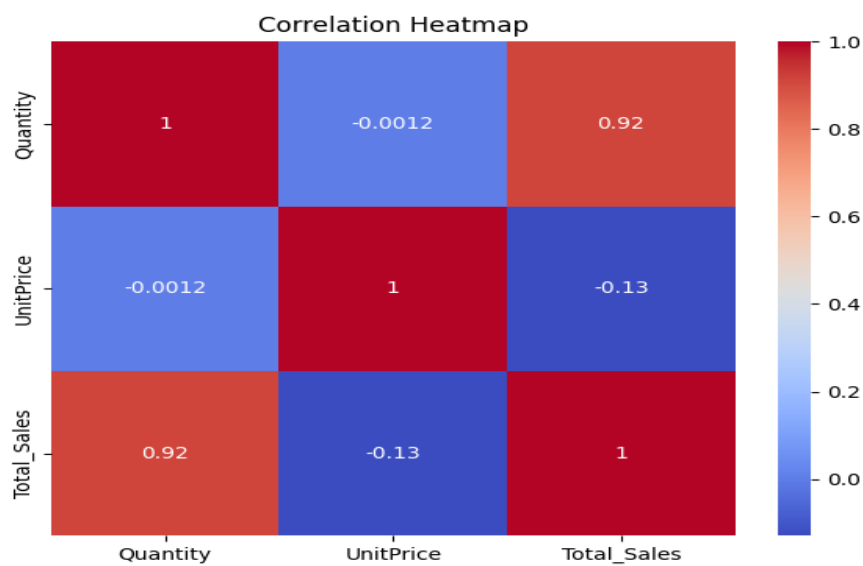
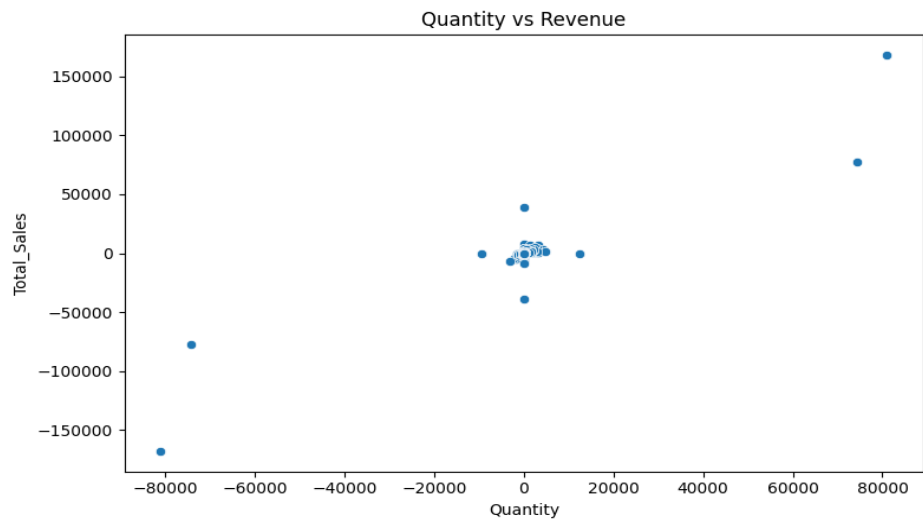
Total Orders: 22190

Total Customers: 4372

Average Order Value: 20.61







Top 5 Countries by Revenue:

Country

United Kingdom

6747156.154

Netherlands 284661.540

EIRE 250001.780

Germany 221509.470

France 196626.050

Name: Total_Sales, dtype: float64

✅ Task-2 EDA Completed Successfully!