

Data Analysis Report

- The data file was successfully loaded.
- Empty rows and columns were completely removed.
- Missing values were filled with 0 or 'undefined' based on column type.
- Statistical analysis was performed on numeric columns only.
- A bar chart was generated for the most frequent categorical column.

Missing Values Before Cleaning

| Column | Missing Before |
|-------------|----------------|
| Order ID | 10 |
| Order Date | 10 |
| Customer ID | 60 |
| Region | 60 |
| Product ID | 10 |
| Category | 60 |
| Quantity | 60 |
| Unit Price | 60 |
| Total Price | 10 |

Missing Values After Cleaning

| Column | Missing After |
|-------------|---------------|
| order_id | 0 |
| order_date | 0 |
| customer_id | 0 |
| region | 0 |
| product_id | 0 |
| category | 0 |
| quantity | 0 |
| unit_price | 0 |
| total_price | 0 |

Statistical Summary (Numeric Columns)

| Metric | quantity | unit_price | total_price |
|--------|----------|------------|-------------|
| count | 990.0 | 990.0 | 990.0 |
| mean | 4.63 | 235.6 | 1188.46 |
| std | 2.72 | 147.95 | 964.89 |
| min | 0.0 | 0.0 | 13.92 |
| 25% | 2.0 | 102.48 | 405.67 |
| 50% | 5.0 | 233.71 | 942.45 |
| 75% | 7.0 | 360.98 | 1743.84 |
| max | 9.0 | 499.67 | 4479.93 |

Most Frequent Category Chart

