

Returned Orders Causes

Summary

Measure Used

Return Rate

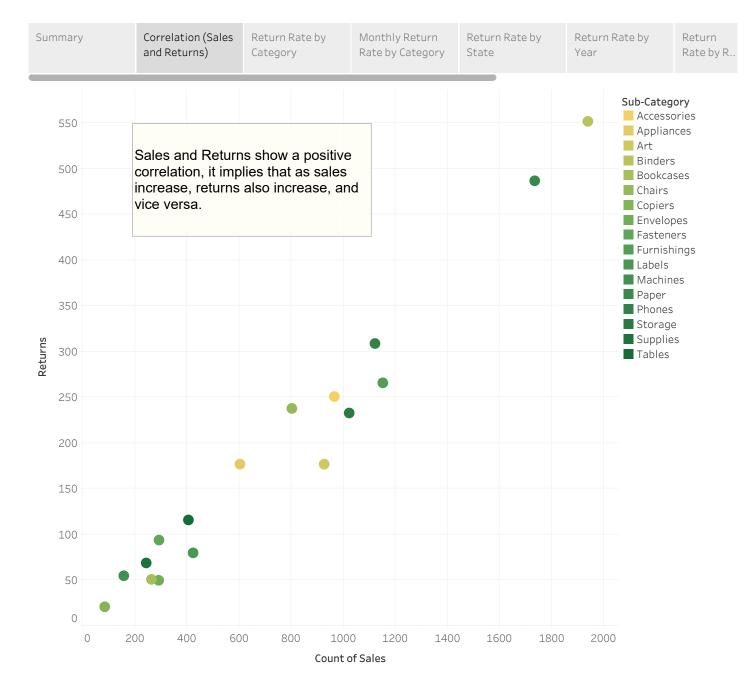
- Percentage of total sales that result in returns.
- It is calculated as the total number of returns divided by the total number of sales
- Provides a standardized metric that can be compared across different periods, products, or regions
- Useful for evaluating trends and patterns in return behavior over time
- Focus on customer satisfaction, process efficiency, and trend analysis.

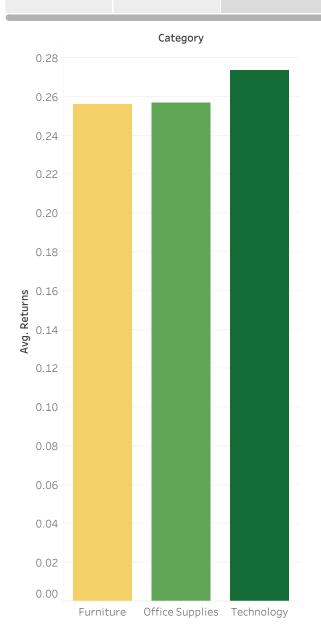
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Root Causes

- **Customer Behavior:** some customers exhibit significantly higher return rates
- **Product Category and Type:** different product categories show varying return rates
- **Geographical Factors:** return rates vary by region and state
- **Temporal Trends:** return rates fluctuate throughout the year and over different months
- **Shipping Mode:** return rates vary based on shipping mode, with expedited options like "Same Day"
- **Yearly Trends:** return rates exhibit variations from year to year

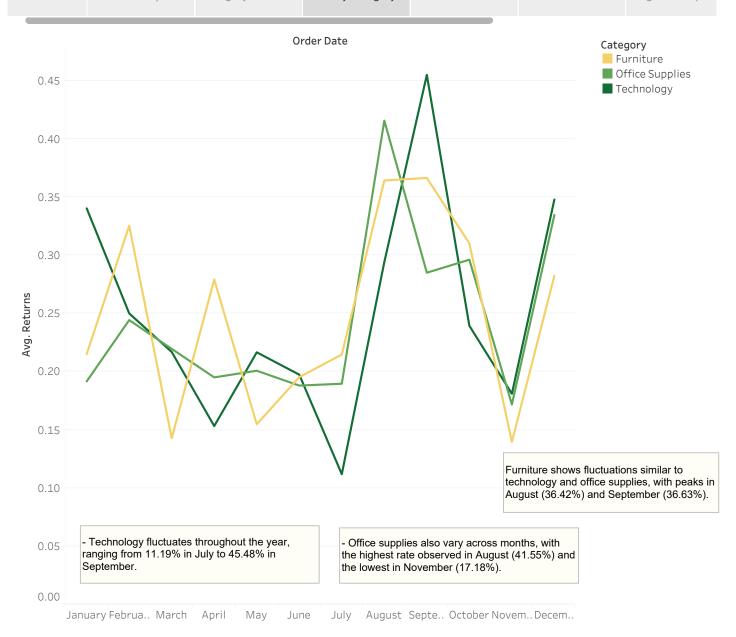






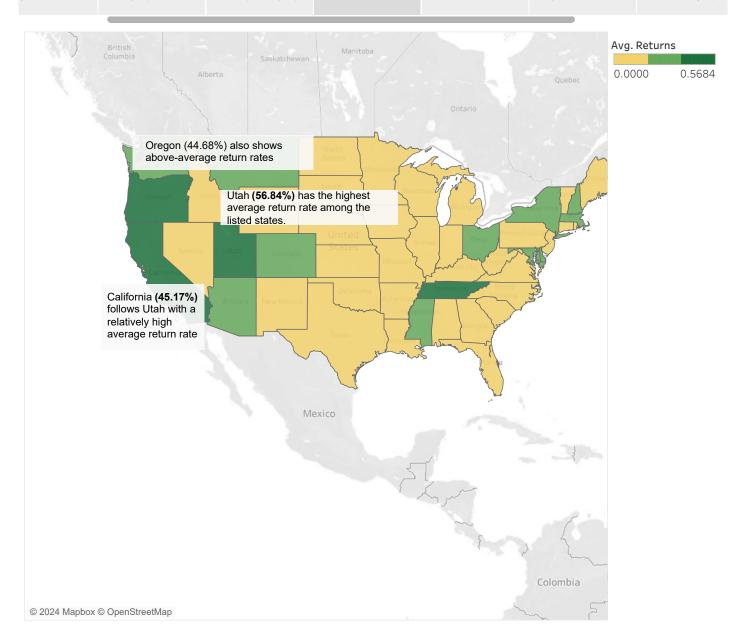


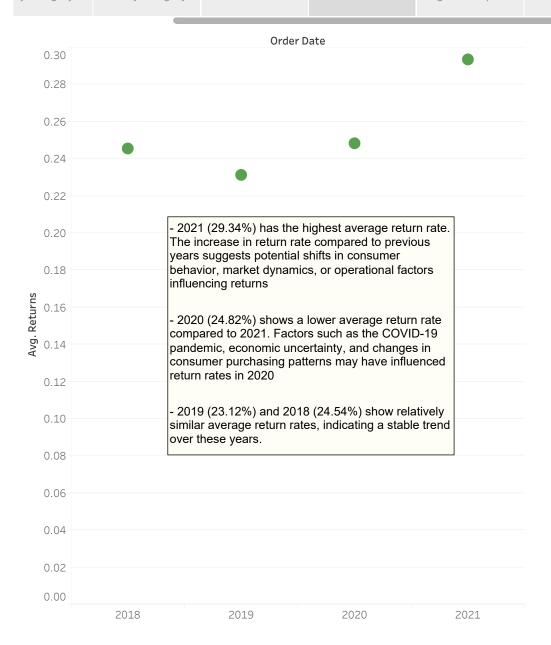
- Technology has the highest average return rate among the three categories (27.33%). This higher return rate could indicate potential issues such as product dissatisfaction, or technical difficulties
- Office supplies have a slightly lower average return rate (25.68%) compared to technology products. Potential reasons for returns in this category could include incorrect orders, damaged goods, or changes in customer needs
- Furniture has a return rate similar to office supplies (25.60%), but slightly lower than technology products. This may be due to factors such as product quality, incorrect measurements or descriptions, and assembly difficulties..



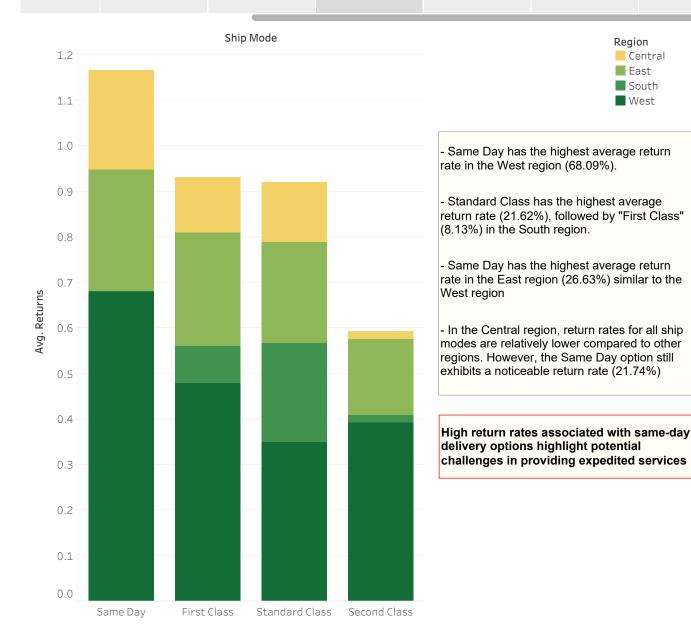
Correlation (Sales and R...

Return Rate by Category Monthly Return Rate by Category Return Rate by State Return Rate by Year Return Rate by Region & Ship M.. Return Rate by Customer (Top ..





Monthly Return Rate .. Return Rate by State Return Rate by Year Return Rate by Region & Ship M.. Return Rate by Customer (Top 10) Returned Orders Causes Conclusion



Monthly Return Rate by Return Rate by Return Rate by Region & Ship M..

Return Rate by Return Rate by Customer (Top 10)

Return Rate by Customer (Top 10)

Customer Name	
Roland Murray	1.0000
Hilary Holden	1.0000
Sandra Glassco	0.9759
Joni Blumstein	0.9474
Ted Butterfield	0.9444
Andy Yotov	0.9412
Seth Vernon	0.9159

Patrick Ryan Anthony Johnson

Mark Haberlin

0.9074

0.8667

0.8621

- Sandra Glassco, Hilary Holden, and Roland Murray have the highest return rates, each with a perfect return rate of 100%

- Joni Blumstein, Ted Butterfield, and Andy Yotov have return rates ranging from 94% to 95%

- Seth Vernon, Patrick Ryan, Anthony Johnson, and Mark Haberlin have return rates ranging from 86% to 92%

Avg. Returns

0.8621 1.0000

Monthly Return Ra.. Return Rate by State Return Rate by Year Return Rate by Region & Ship M.. Return Rate by Customer (Top 10)

Avg. Returns

0.4

0.0

Returned Orders Causes Conclusion

Ship Mode

ΑII

Returned Orders Causes

Use the following visualization to understand the return rate by the following criteria:

- Return Rate by Customer
- Return Rate by Category
- Return Rate by Year
- Return Rate by State
- Return Rate by Month & Category
- Return Rate by Region & Ship Mode Also, the visualization can help to understand the correlation between Sales and Returns.

The category, Sub-Category, Year of Or..

Total Sales and Returns

Sales 2,901,677

Returns 3,226

Category Correlation between Sales and ΑII Returns 600 Sub-Categ.. Returns ΑII 400 200 Year of Or.. ΑII 1000 1500 2000 0 Month of O.. ΑII Count of Sales

Return Rate by Customer

Customer Name	
Roland Murray	1.0000
Hilary Holden	1.0000
Sandra Glassco	0.9759
Joni Blumstein	0.9474
Ted Butterfield	0.9444
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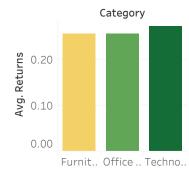
Return Rate by State



Return Rate by Month and Category



Return Rate by Category



Return Rate by Year



Return Rate by Region & Ship Mode





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Conclusion

- The correlation between sales and returns allows businesses to target strategies to improve return handling, customer satisfaction, and overall operations.

Technology Businesses:

- Pay attention to factors that cause returns, such as product quality, customer assistance, and explaining product features.

Seasonal Return Patterns:

- High return rates during specific months suggest potential issues with customer satisfaction, product quality, or operational glitches that need attention.

Data-Driven Decisions:

- Use monthly return rate data to optimize inventory management, marketing campaigns, and customer service strategies.
- Refine marketing strategies to target specific areas with high return rates
- Enhance customer support by addressing common return reasons in different states.
- Optimize same-day delivery services to minimize returns due to quality issues or dissatisfaction..

