Superstore Returns Analysis

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Introduction

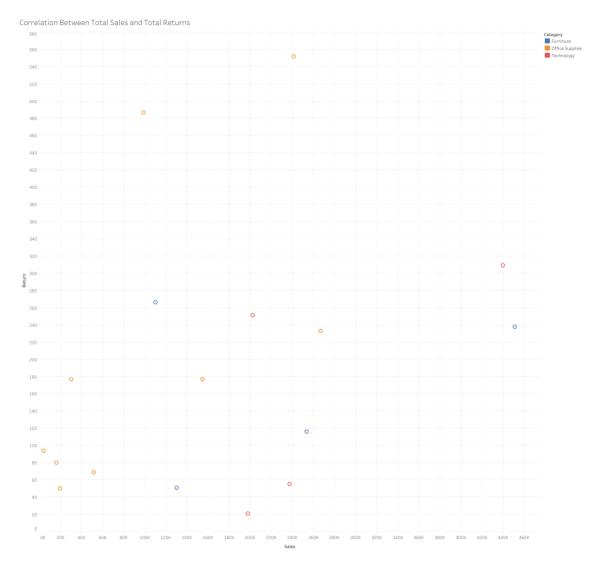
Purpose: Provide insights into factors driving returns at Superstore and propose solutions to reduce return rates.

- Objectives:
- Identify key drivers of high return rates.
- Offer actionable strategies to improve quality and customer experience.
- Equip stakeholders with a dashboard for ongoing return monitoring.

Sales and Returns Correlation

Graph: Scatterplot of total sales vs. total returns by product subcategory.

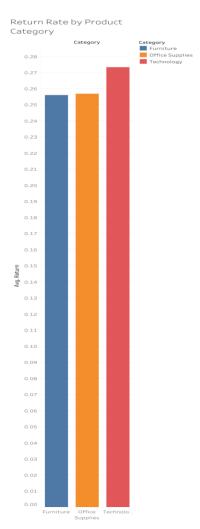
Detail: Categories like storage and phones subcategories show a high correlation, suggesting a quality control focus may reduce returns in high-sales categories.



Return Rate by Product Category

Graph: Bar chart showing return rates across product categories.

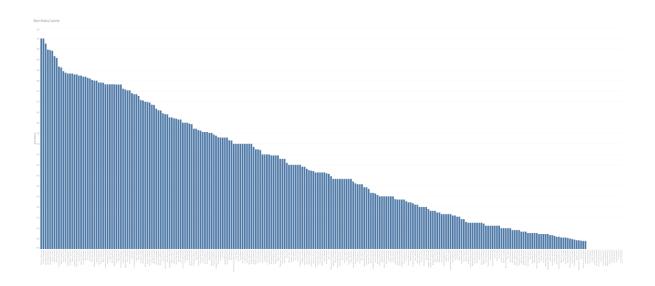
Detail: Technology, Office Supplies, and Furniture have the highest return rates, highlighting areas for product quality improvements.



Customer Return Behavior

Graph: Return rate by customer, excluding those with only one order.

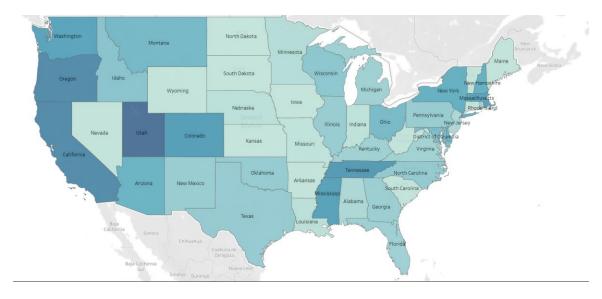
Detail: Frequent returners display consistent patterns. Targeting these customers with personalized support may reduce their return rates.



Geographic Return Trends

Graph: Map of return rates by state.

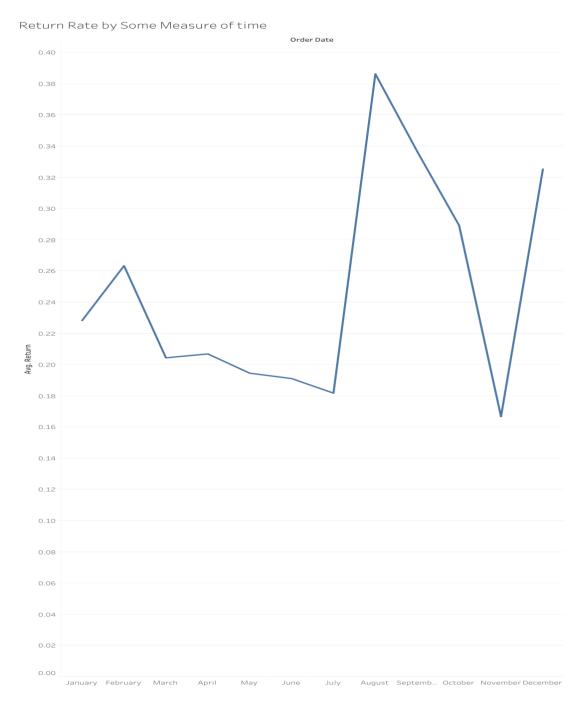
Detail: States like California, Utah, and Oregon have high return rates, indicating potential regional issues such as fulfillment or delivery challenges.



Seasonal Return Patterns

Graph: Line chart of monthly return rates.

Detail: Peak returns in August, September, and December coincide with back-to-school and holiday seasons, suggesting a need for seasonal return strategies.



Category and Geographic Trends

Graph: Composite chart of return rates by category and region.

Detail: Furniture in California and Technology in New Hampshire show particularly high return rates, suggesting targeted interventions in these areas.

Relationship Between Return Rate by Category and State

	Category		
		Office	
State1	Furnitu	Supplies	Tech 📻
New Hampshire			67%
Tennessee			60%
Oregon			58%
Utah			50%
New York			40%
Idaho			40%
Delaware			39%
California			39%
Washington			35%
Massachusetts			35%
Colorado			33%
Ohio			31%
Maryland			25%
Alabama			25%
Arizona			23%
Pennsylvania			20%
Rhode Island			20%
New Mexico			20%
Virginia			20%
Kentucky			
Illinois			
Florida			
New Jersey			
North Carolina			
Texas			
Wisconsin			
Georgia			

Relationship Between Return Rate by Category and State

		Category			
State1 å+	.	Furn 📻	Office Supplies	Technol	
California		45%			
Utah		40%			
New Hampshire		38%			
Washington		32%			
Tennessee		31%			
Oregon		30%			
Colorado		29%			
New York		29%			
Maryland		29%			
Idaho		29%			
New Mexico		25%			
Massachusetts		24%			
Georgia		24%			
Ohio		24%			
Kentucky		22%			
Virginia		22%			
Arizona		21%			
Wisconsin					
North Carolina					
Pennsylvania					
Minnesota					
Florida					
Rhode Island					
Delaware					
Illinois					
Indiana					
Texas					

Conclusions and Recommendations

- Quality Improvements: Prioritize quality checks and product improvements in highreturn categories, especially Technology and Office Supplies.
- Customer Communication: Offer clear product descriptions and usage guides to set accurate expectations.
- Regional & Seasonal Adjustments: Address specific needs in high-return regions and prepare resources for peak return months.
- Dashboard Use: Encourage regular dashboard reviews for real-time insights and refinement of strategies.