# **Superstore Sales Analysis**

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Duke Impact Investing Group Fall 2023 Data Challenge

# **OVERVIEW**

**WHAT?** Uncover actionable insights from the data to assist Superstore Giant.

## **HOW?**

- What are the major KPI (Key Performance Indicators) that are driving current profitability and success?
- 2. How can you make use of KPIs and Trends to redefine resource allocation?

#### **Contents:**

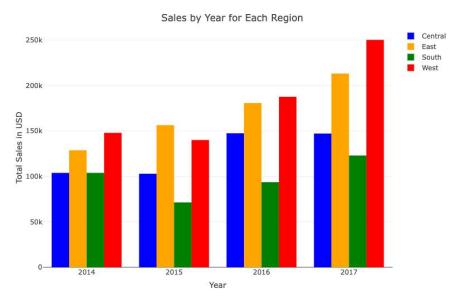
- Sales/Profit Analysis & Trends
- Discount Analysis
- Final Recommendations

#### (i) BY REGION



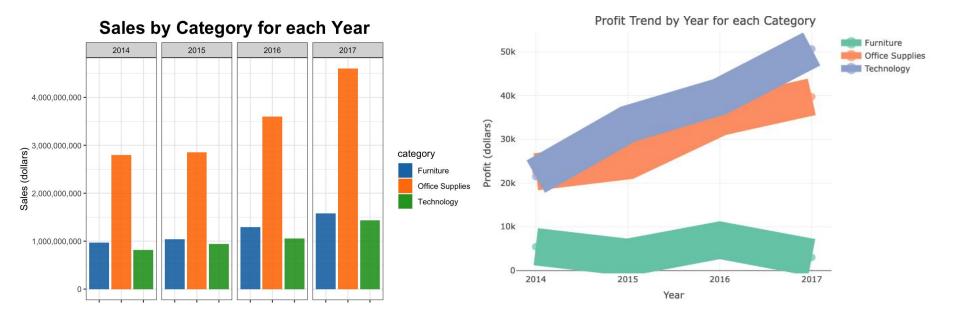






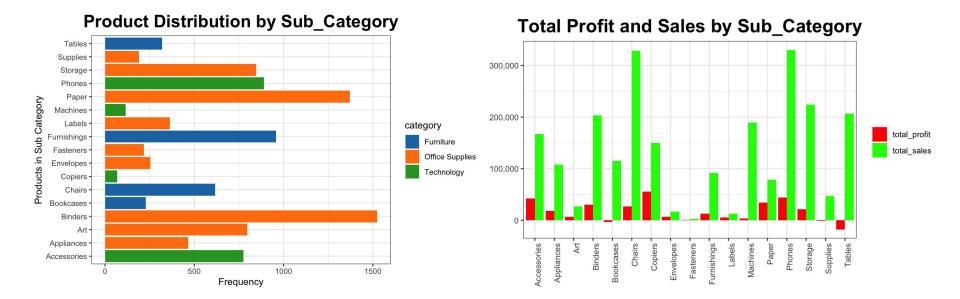
- West region has shown Highest
  Total Sales and Profit.
- East region has shown a consistent Year-On-Year increase.

(ii) BY CATEGORY



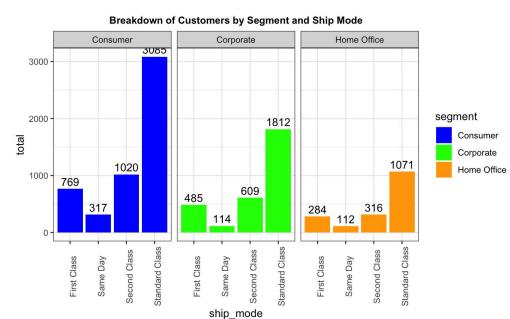
- Office Supplies has most sales, but Technology is most profitable.
- Furniture category's profits have decreased from 2015 to 2017.

(iii) BY SUB-CATEGORY

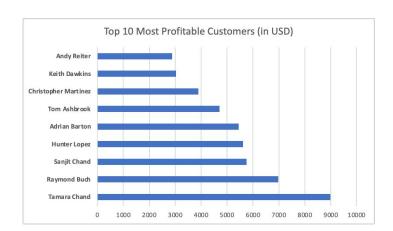


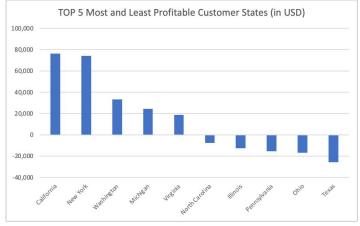
- Paper and Binders (Office Supplies) are the most frequently bought products, but Copiers and Phone are most profitable products.
- Tables, Bookcases, and Supplies are the only products contributing to loss.

#### (iv) BY CUSTOMER BEHAVIOUR

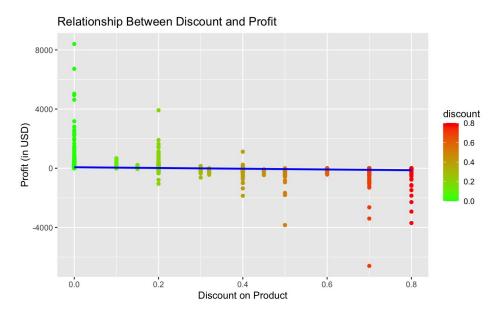


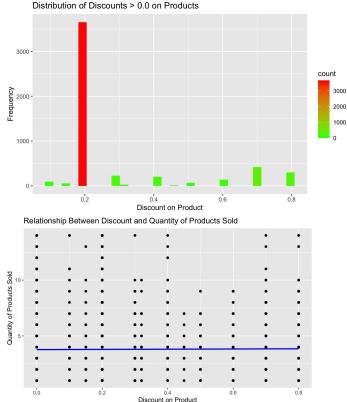
- Consumers are the most frequent customers and Standard class is the most used shipment mode.
- Most profitable states are California & New York.





### **DISCOUNT ANALYSIS**





- Most frequent discount on products is 20%.
- As Discount on product increases, sales and profit decreases.
- No apparent relationship between discount and quantity of products ordered.

# FINAL RECOMMENDATIONS

- Target marketing to expand market presence in the West Region, and States like California and New York.
- Expand product range in the Office Supplies to increase market share since they contribute to the most sales.
- Optimize inventory for Technology products because of highest profitability and demand.
- Offer promotions or bundle offering to pair products like Paper and Binders.
- Assess the Furniture category and possibly phase out Tables, Bookcases, and Supplies after a thorough assessment.
- Work on improving efficiency within Ship Mode delivery models.
- Offer customer exclusives, personalized marketing, and loyalty programs to Consumers to enhance customer retention.
- Keep discounts <0.2.</li>

#### **Questions?**