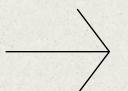
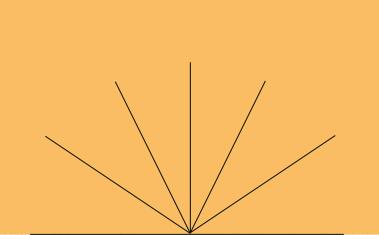
# Ecommerce Sales Analysis

Domain: E-commerce Sales and Promotions Function: Optimize sales and profitability





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Marketing 2XXX

# PROBLEM STATEMENT

The company is experiencing challenges in optimizing sales and promotions strategies.

There is a need to understand user behavior, product performance, and the impact of promotions across various dimensions.

# **OBJECTIVE**

To analyze sales and promotions data to identify key trends and insights. To segment analysis by Overview, Product, Day/Time, Brand, and State for targeted insights.

By examining key performance indicators (KPIs) and detailed sales metrics, we aim to:

- Identify best-selling brands and high-revenue generators.
- 2. Assess total revenue and profit margins to gauge financial health.
- 3. Understand the impact of brand, customer segments, state, time, category and discounts on sales.
- 4. Provide actionable recommendations for enhancing sales and marketing strategies.



## **Tools Used**

#### Analytical & Visual:

Microsoft Power Bl

#### Presentation:

• Microsoft power point



Data source: Internet

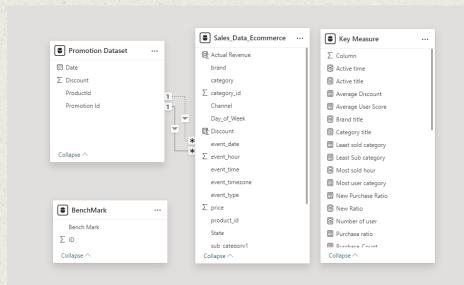
Time period: 2019

**Data size:** Sales\_Data\_Ecommerce (160001,18), Promotion(62,4)

#### Key columns:

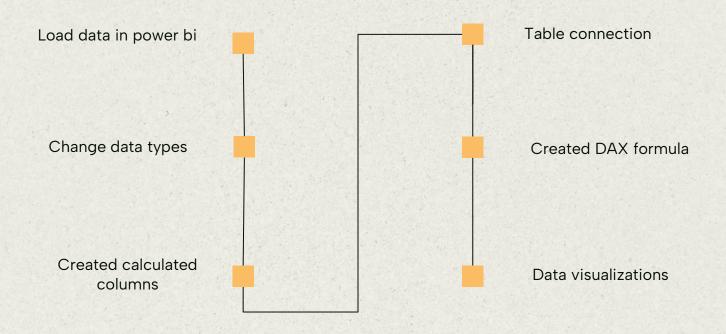
**Actual Columns:** Day\_of\_week,channel, event\_hour, event\_type, category,sub\_category1, sub\_category2 brand, price, user\_session, State, User\_Score

Dax/Calculated columns: Active title, Average discount, Average user score, Purchase ratio, Set benchmark, Top brand by customer, Top reviewed brand, top sold category etc.



Data model

### ANALYSIS WORKFLOW



#### PRIMARY INSIGHTS

**Total Sales** 

\$5.37M

Top selling brand

**Apple** 

Purchase ratio

9.11%

**Total User** 

158K

Most sold time

**10** am

Top channel by sales

**Browser** 

Most active user day

**Friday** 

Top selling category

**Electronic** 

# **SECONDARY INSIGHTS**

# Key Findings

This analysis provides a comprehensive overview of the company's sales performance, focusing on various aspects such as total sales, purchase ratio, state performance, product categories, customer segments, and daily trends. The data reveals a total sales figure of \$5.37M with a purchase ratio of 9.11%. The best–selling brand is Apple., and most of the users visit us using browser instead of app. However, the company faces a significantly low rating of 2.51 and most of the categories fail to make \$20k in revenue

#### Key findings include:

- 1.State-wise performance: Most sales happen on MS (Mississippi) but other are not too behind.
- 2.Product categories: Electronics lead in sales and discount. Stationary leads in purchase ration and average score.
- 3. Customer segments: 78% of our customers only visit us and don't buy.
- 4.Daily trends: Most sales happen in 05am-2pm. Friday most users are active and on Sunday most sells happen.
- 5.Brand: Apple is most sold, purchase ratio and discounted brand. But most users visit Samsung brands.

#### Recommendations

To improve performance, the company should:

- 1.Focus on conversion: With 78% of visitors not making a purchase, implement strategies to improve conversion rates. This could include targeted promotions, improved product descriptions, or streamlined checkout processes.
- 2. Optimize for peak hours: Concentrate marketing efforts and ensure optimal site performance during the 5am-2pm window when most sales occur.
- 3.Leverage Friday traffic: Develop special Friday promotions or flash sales to capitalize on high user activity.
- 4. Sunday sales boost: Create Sunday-specific deals to further enhance the already strong sales performance on this day.
- 5. State-specific strategies: While Mississippi leads in sales, develop tailored approaches for other states to boost their performance and balance regional sales.

#### Category focus:

- 1. Promote electronics more aggressively, as it leads in sales and discounts.
- 2. Investigate why most categories fail to reach \$20k in revenue and develop strategies to improve their performance.
- 3. Learn from the stationery category's success in purchase ratio and customer satisfaction to apply to other categories.

### Recommendations

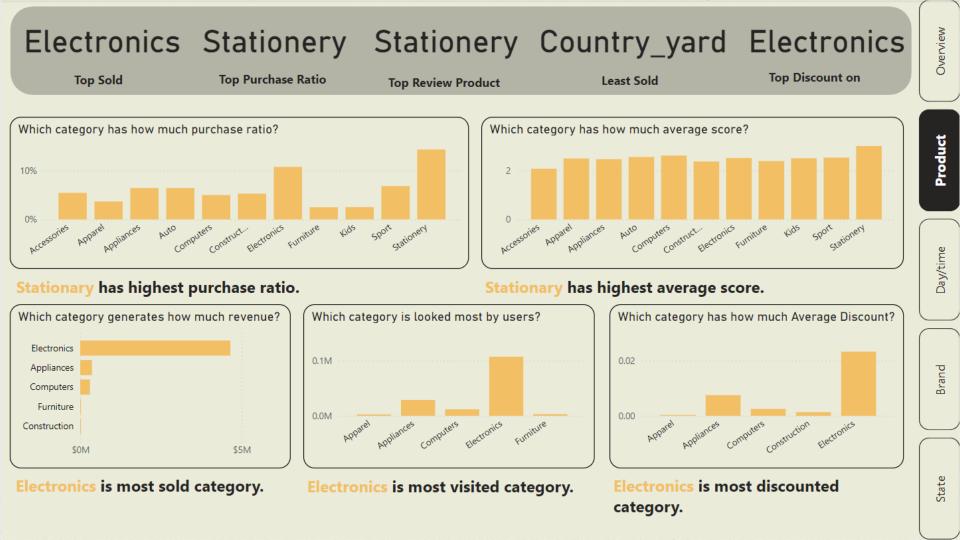
#### Brand strategy:

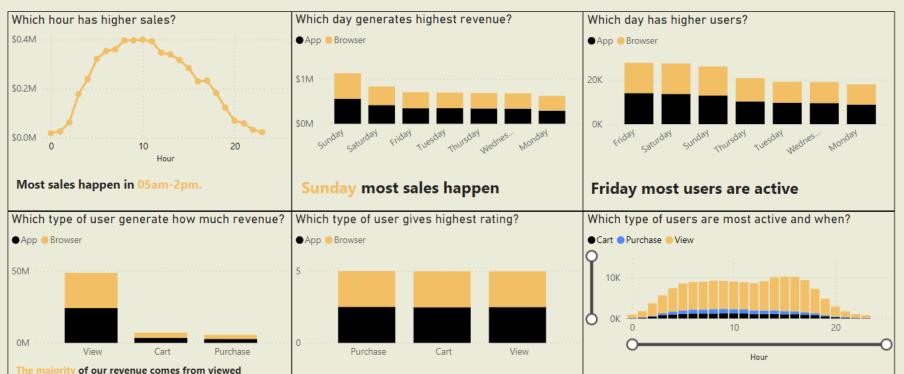
- 1. Strengthen partnership with Apple, leveraging its high sales and purchase ratio.
- 2. Develop strategies to convert Samsung browsers into buyers, potentially through exclusive deals or improved product showcasing.

Improve overall customer satisfaction: Address the low average rating of 2.51 by gathering more detailed customer feedback and implementing improvements in product quality, customer service, and user experience.

Mobile app enhancement: Given that most users prefer the browser, invest in improving the mobile app to encourage more app-based purchases, which often lead to higher customer loyalty.

Discount strategy review: Analyze the effectiveness of current discounting practices, especially in the electronics category, to ensure they're driving sales without unnecessarily eroding profits.





User score is almost same in all type

customers, but these customers do not proceed to

purchase.

Produc

Overview

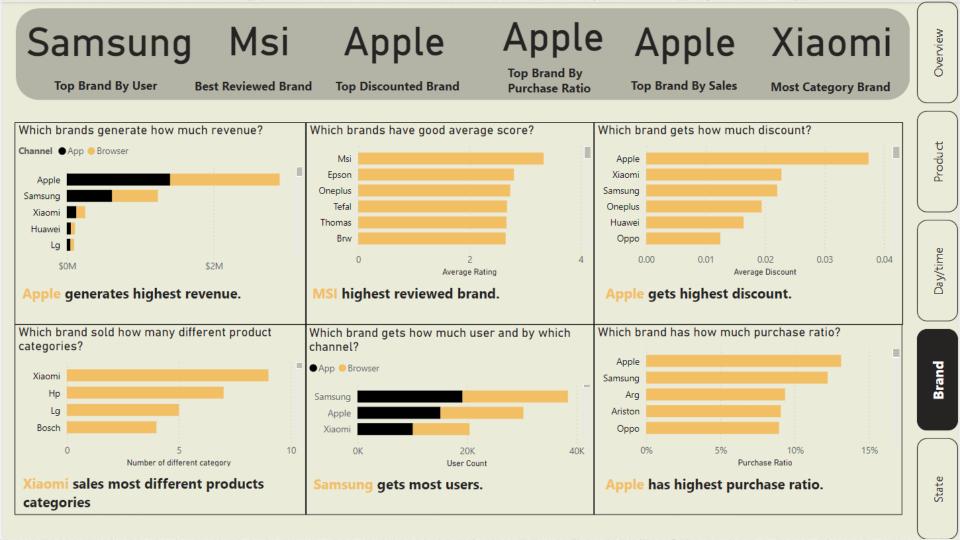
Day/time

Brand

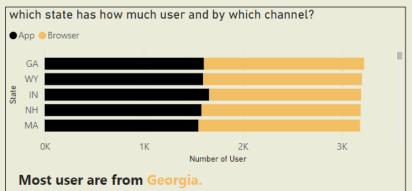
State

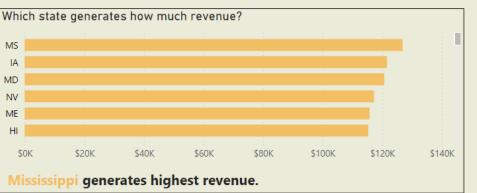
Most users are of type View throughout the whole day.

12pm-06pm most users are active.











Overview

# Thank you!!!

—Amanat Mahmud





