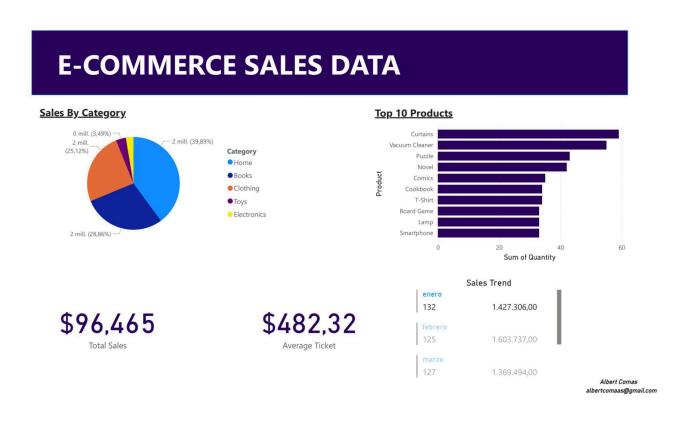
# **E-Commerce Sales Data Analysis**

#### Overview

In this project, I conducted a comprehensive analysis of a fictional e-commerce platform's sales performance, focusing on product categories, top-selling items, monthly trends, and average ticket values. I extracted key insights from the sales data and created visualizations to highlight important patterns and business-critical metrics. The main goal was to generate actionable insights to support strategic decision-making in areas such as product management, marketing, and revenue optimization.



#### 1. Sales by Category

A pie chart visualizes the distribution of total sales across five key product categories:

• **Home**: 39.89%

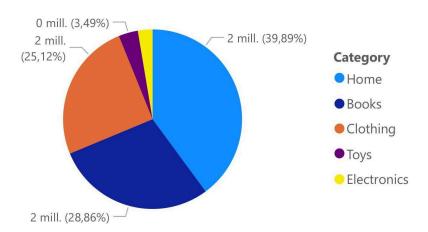
• Books: 28.86%

• Clothing: 25.12%

• **Toys**: 3.49%

• **Electronics**: Minimal, below 3%

## **Sales By Category**



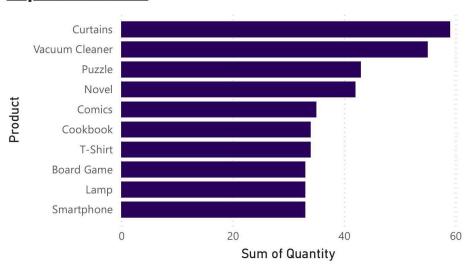
#### Significance:

The *Home* and *Books* categories dominate the revenue share, accounting for nearly 70% of total sales. This suggests a strong consumer preference for home essentials and reading material, and may indicate a post-pandemic behavioral shift toward home improvement and leisure learning.

## 2. Top 10 Products

A bar chart illustrates the top-selling individual products by quantity sold:

- 1. Curtains
- 2. Vacuum Cleaner
- 3. Puzzle
- 4. Novel
- 5. Comics
- 6. Cookbook
- 7. T-Shirt
- 8. Board Game
- 9. Lamp
- 10. Smartphone



**Top 10 Products** 

#### Insight:

Products tied to home decor, utility, and leisure dominate. The presence of books (novel, comics, cookbook) and board games also suggests that customers value at-home entertainment and lifestyle enrichment.

## 3. Total Sales and Average Ticket

• Total Sales: \$96, 465

• Average Ticket Size: \$482.32

\$96,465

\$482,32

Total Sales

Average Ticket

#### Interpretation:

With a high average ticket size, the business appears to cater to a mid-to-premium market segment. This metric helps gauge purchasing power and supports pricing strategy decisions.

## 4. Monthly Sales Trend (Q1)

Month	Orders	Revenue
Enero	132	\$1,427,306.0 0
Febrer o	125	\$1,603,737.0 0
Marzo	127	\$1,369,494.0

	Sales Trend
enero	
132	1.427.306,00
febrero 125	1.603.737,00
marzo 127	1.369.494,00

### Analysis:

Sales volume remained relatively stable over Q1. However, February outperformed in revenue, hinting at higher-ticket purchases that month. This could correlate with seasonal campaigns or promotional events.

## Conclusion

This project showcases essential KPIs and sales drivers in an e-commerce context. Key findings include:

- The dominance of home and book categories.
- A focus on value-rich, lifestyle-driven products.
- High-value customer transactions.
- Month-to-month revenue consistency with spikes likely tied to marketing actions.

The insights derived from this analysis can be used to guide inventory planning, targeted promotions, and category expansion.

#### **Tools Used**

- Power BI for data visualization
- Excel/Python for data preprocessing
- Domain knowledge in consumer analytics and e-commerce trends