

Overview

KEY QUESTIONS
AND
OBJECTIVES

INSIGHTS

CONCLUSION

Overview

This project contains the analysis and visualization of sales data sourced from Kaggle. The analysis aims to uncover insights and answer critical business questions to guide decision-making processes.

Tool Used

Power BI: For data cleaning, data visualization and dashboard creation.

Data Source

The sales data used in this analysis is sourced from <u>Online Sales Dataset - Popular Marketplace Data</u> (<u>kaggle.com</u>). It includes various attributes related to sales transactions, units sold, unit prices, and product categories and payment method.

KEY QUESTIONS AND OBJECTIVES

• The primary objective of this analysis is to extract actionable insights from the sales data. Some key questions addressed through the visualization include:

1. Sales Performance:

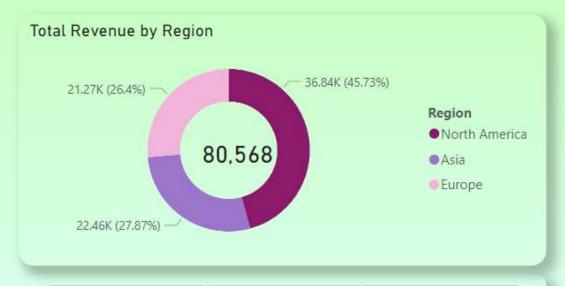
- 1. Which products are the top sellers?
- 2. What is the sales trend over different time periods (monthly, quarterly, annually)?
- 3. Which regions generate the highest sales?
- 4. What is the total number of units sold?
- 5. What is the revenue trend over number of units sold?

2. Product Analysis:

- 1. What are the most and least profitable products?
- 2. How do product categories perform in terms of revenue?
- 3. What product were bought most using each payment method?

3. Payment Channels Performance:

- 1. Which payment channels (e.g., Credit card, Debit card, PayPal) are the most effective?
- 2. Which payment methods are used most by each region?







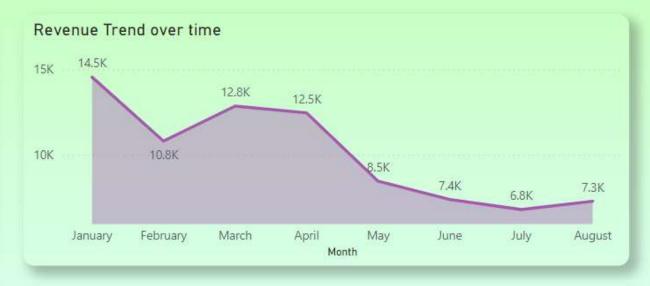
518

236.40

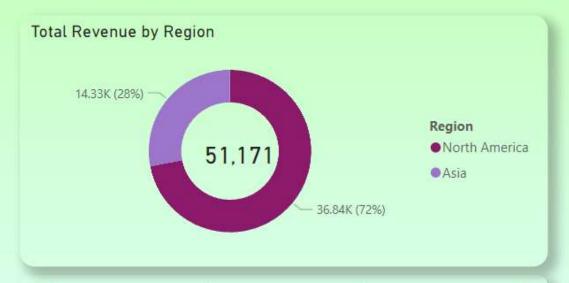
Sum of Total Revenue

Sum of Units Sold

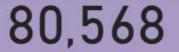
Average of Unit Price











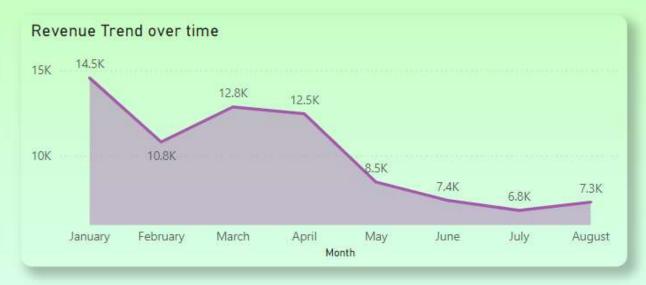
Sum of Total Revenue

518

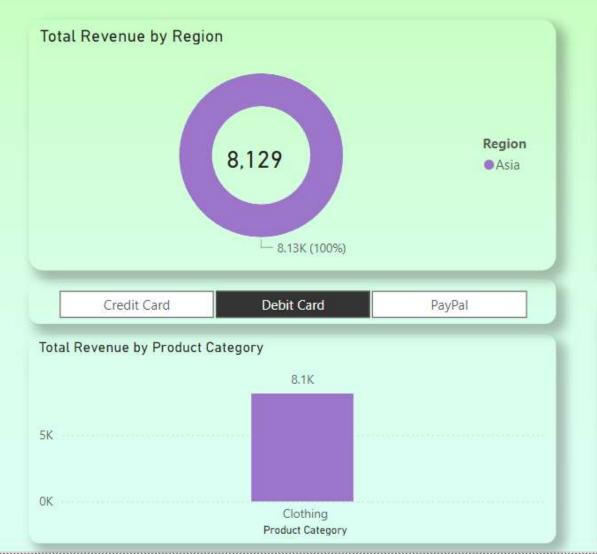
236.40

Sum of Units Sold

Average of Unit Price







80,568 236.40 518 Sum of Total Revenue

Sum of Units Sold Average of Unit Price







80,568 518 236.40
Sum of Total Revenue Sum of Units Sold Average of Unit Price





INSIGHTS

The visualizations created in Power BI provided several key insights, including:

1. Top Products and Sales Trends:

- 1. Electronics and Home Appliances consistently lead in revenue.
- 2. Sales exhibit a strong seasonal trend, with peaks during the holiday season.
- 3. Singular purchases brought in more revenue than multi-purchases.

Regional Performance:

- 1. North America outperforms other regions, contributing to ~46% of total sales.
- 2. Asia and Europe made up the remaining 54% (with Asia having 1.47% more sales that Europe)

1. Payment Method Performance:

- 1. Credit card generated the most total revenue being the most popular payment method. (making up 63% of revenue)
- 2. Debit card brought in the least revenue even while being the only payment method being used in Asia (only ~10% of revenue)

CONCLUSION

In conclusion, our sales data analysis has provided us with valuable insights into our performance, product trends, and payment method usage. By leveraging these findings, we can make informed decisions to enhance our sales strategies, optimize resource allocation, and drive growth.

THANK YOU 6/13/2024