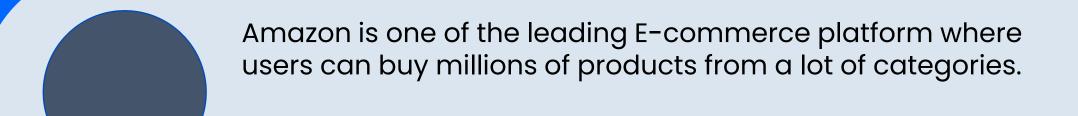
Amazon Sales Data Analysis BY SHUBHAM PATHAK



Objectives

- To calculate total sales, total profit, average profit margin and average unit price
- To find which order priority gave highest sales
- To find which is the bestseller Item type
- To find which mode of channel generated maximum sales
- To find yearly total sales
- To find total sales and total profit by region
- To find the number of units sold of a particular item type

The Process

- Data Collection
- Data Cleaning
- Data Analysis
- Insights
- Summary



Data Collection

The Data has been collected in the form of a CSV file named "Amazon Sales Data.csv".

The CSV file has the data of sales of products during the timespan of **2010** and **2017**.



Data Cleaning

There were no Null values or blank fields

Some values in 'Order Date' and 'Ship Date' columns are in String datatype. So we converted them to datetime datatype using Python

Most of the values in 'Total Revenue', 'Total Cost' and 'Total Profit' columns are written with two decimal places, so we make sure that each value in these columns have two decimal places by using Excel

137.35M

Total Sales

44.17M

Total Profit

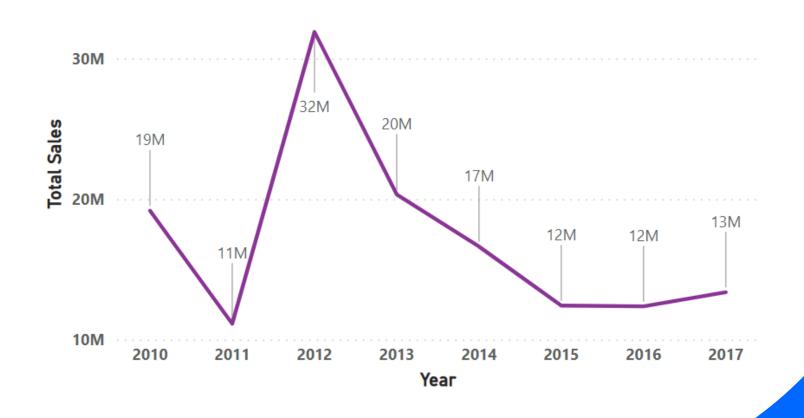
32.16

Avg Profit Margin

276.76

Avg Unit Price



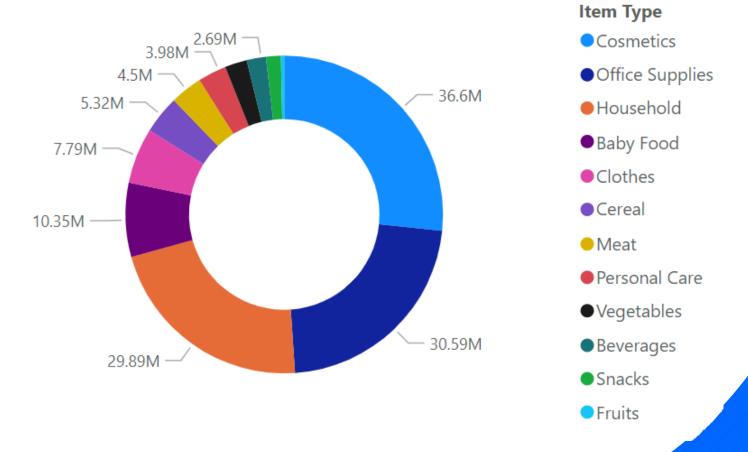


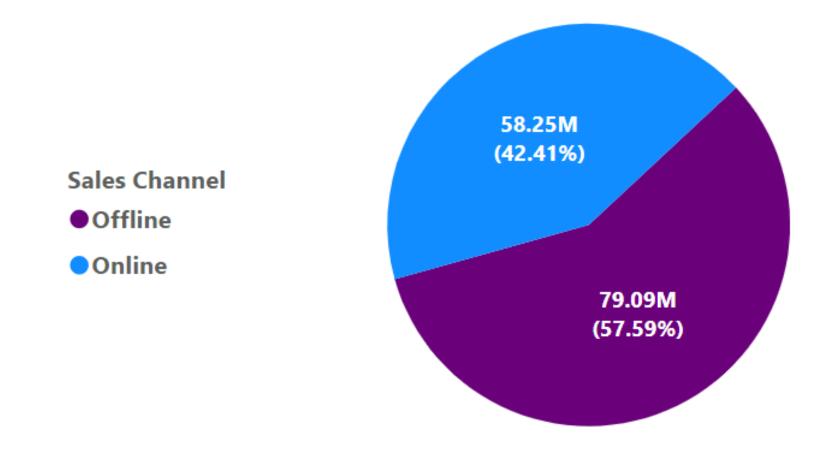
29/07/2024

Total Sales by Order Priority

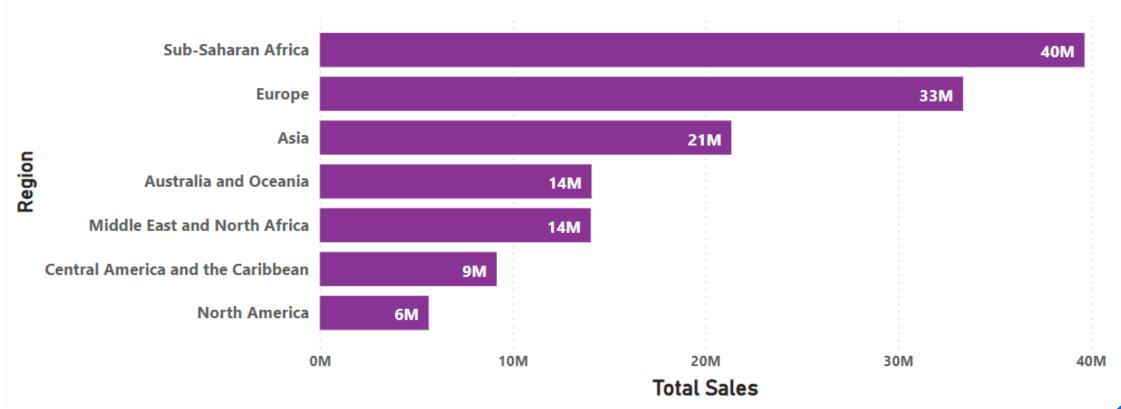
Н 49M **Order Priority** 37M 33M C 19M 0M 50M **Total Sales**

Total Sales by Item Type

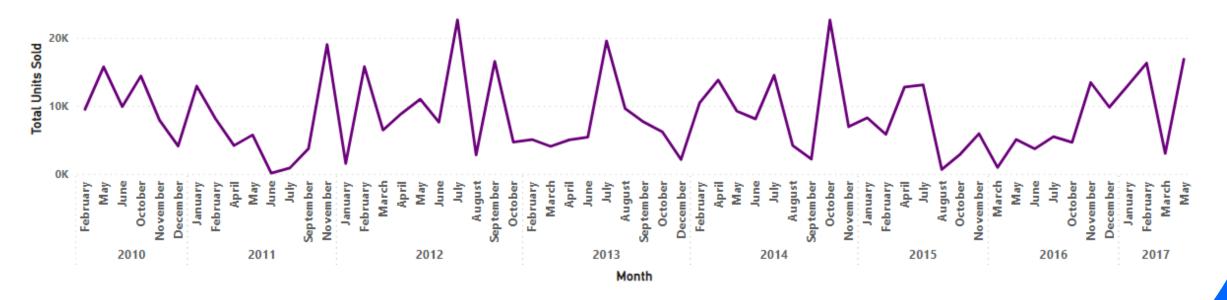








Total Units Sold by Year and Month

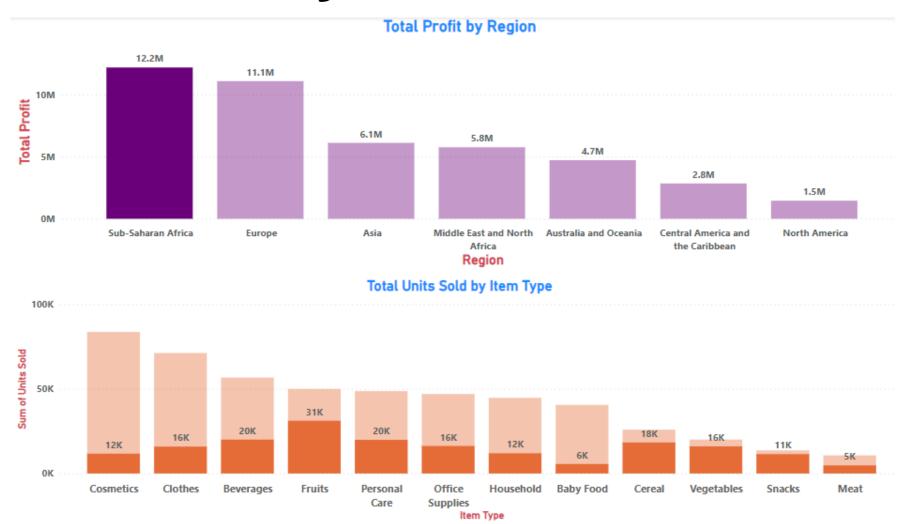


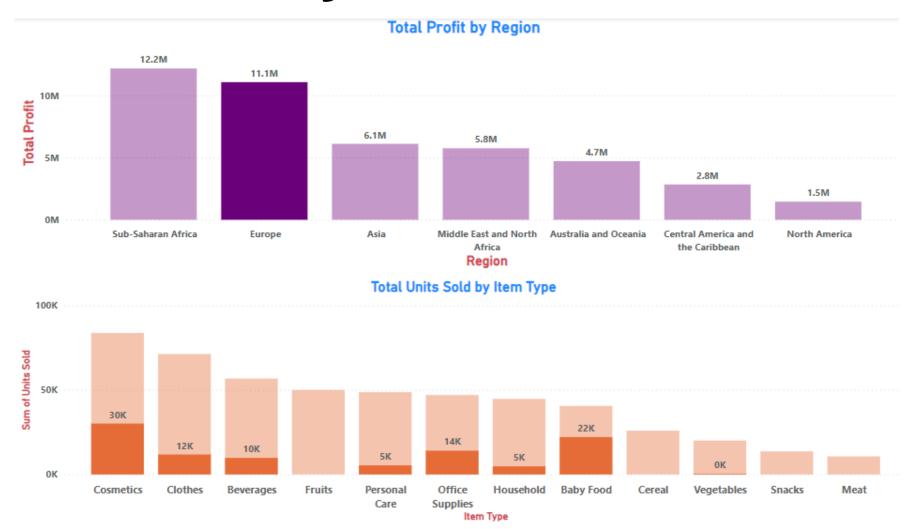
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29/07/2024







Insights

- The total sales is \$137.35 million out of which total profit is \$44.17 million.
- The average profit margin and unit price is \$32.16 and \$276.76 respectively.
- The "H" order priority gave the highest sales, which means people need their products fast.
- "Cosmetics" products gave the highest sales.
- Majority of people still prefer "Offline Channel" for buying products.
- The year 2012 has seen the highest sales
- The Sub-Saharan Africa region has seen the highest sales

Summary

- Cosmetic products are very popular among people of Europe and these products generated the highest profit (\$14.56 million) of all items. So, it is advisable to create some marketing campaigns promoting Cosmetic products.
- Total Population of North America prefer to shop offline as compared to people of Europe, who mostly prefer Online channel for shopping. But because high profits are coming from Online channel, it advisable to promote products online.
- The Region Sub-Saharan Africa has generated the highest profit where people bought Fruits the most, with approx. 31 thousands unit sold. Highlight the health benefits of fruits during campaigns and align marketing with local preferences.
- The second most purchased item, after Cosmetics in Europe is Baby Food. This
 insight tells us that majority of people of Europe are newlywed couples. Thus you
 can promote products related to new born babies to these people.

Summary

- Fruits has generated the least profit of all item types which is only \$120.50
 thousands. It is advisable to understand the customer needs, adjust the price and
 analyse the local preference.
- North America Region has generated the least profit by selling only Personal Care and Household Items through Offline Channel. Try to promote products other than both these item types through Online Channel by giving some discounts. Do some survey to find local people's preferences.
- Meat is the least sold item type with 11 thousands units sold in Australia and Oceania and Sub-Saharan Africa Region using only Online Channel. Consider selling different kinds of meat products and adjust the prices.
- Household Items and Cosmetic Products are sold the most through Offline and Online Channels respectively. Enhance physical stores with attractive displays and promotions for Household Items. Run targeted ads and make the website more user friendly for Cosmetic products.

Thank you