Data Spark: Illuminating Insights for Global Electronics

By analyzing Global Electronics' customer, product, sales, and store data, we seek to uncover critical insights that can refine marketing strategies, streamline inventory management, and enhance sales forecasting. These insights will enable the creation of targeted marketing campaigns, the development of improved products, and the planning of effective promotions, as well as informed decisions regarding store expansions and optimizations. Additionally, understanding the influence of currency exchange rates on sales will support more effective international pricing strategies. Ultimately, this analysis aims to boost customer satisfaction and drive business growth for Global Electronics.

Insights Summary:

1. Gender Distribution:

- The customer base is nearly evenly divided by gender, with females accounting for 50.75% and males 49.25%. This indicates balanced representation among male and female customers.

2. Age Groups:

- Customers are evenly distributed across four age groups (20–39, 40–59, 60–79, and 80+), each accounting for approximately 25% of the total. This suggests an opportunity to tailor products and marketing strategies for diverse age demographics.

3. Regional Distribution:

- North America, particularly the United States, dominates the customer base, with significant contributions from Europe and Australia. This highlights the U.S. as a core market, with growth potential in European and Australian markets.

4. Top Markets by Country:

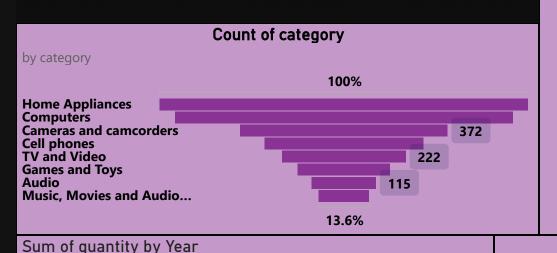
- The United States is the leading market, followed by the United Kingdom, Canada, Germany, and Australia. These countries represent key areas for targeted campaigns and expansion strategies.

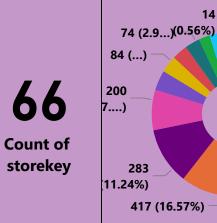
5. Customer Count:

- The total customer count stands at 15.11K, indicating a substantial customer base to leverage for marketing and sales initiatives.

6. Geographic Insights:

- North America leads in terms of customer distribution, with notable representation in Europe and Australia. Expanding efforts in Europe (e.g., Germany, UK) and Australia could yield further growth opportunities.







Sum of unit_cost_usd

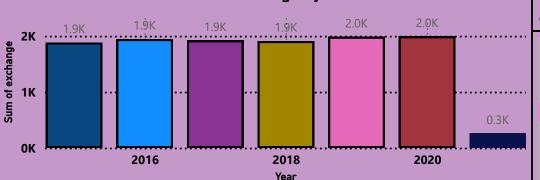
898.14K

Sum of unit_price_usd

sum of profit usd

526.49K

Sum of unit price usd - Sum of un



Sum of exchange by Year

color

Black

White

Silver

Grey

Blue

Red

Pink

 ∇

(20.06%) Brown

602

(23.92%)

505

204,261.68 Sum of unit price usd

Fabrikam

165,480,37 Sum of unit price usd

Litware

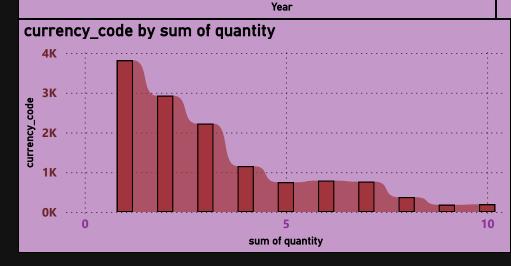
127,164,94 Sum of unit_price_usd

Adventure Works

99,369.83 Sum of unit price usd

Proseware

77.919.63



2018

2020

10K

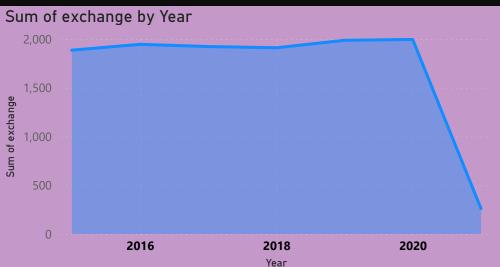
2016

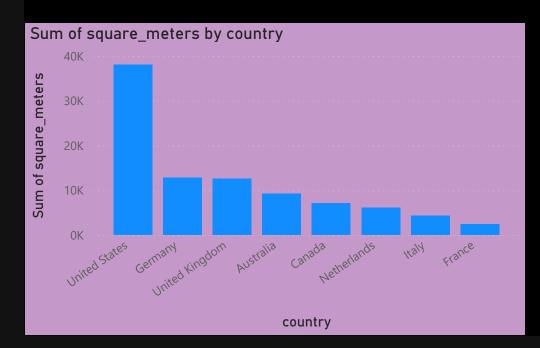




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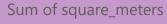


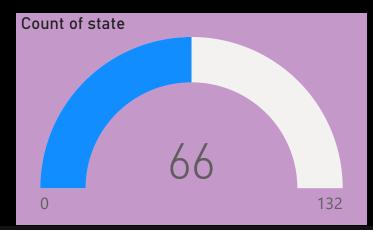


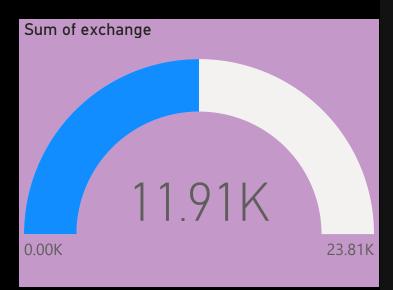


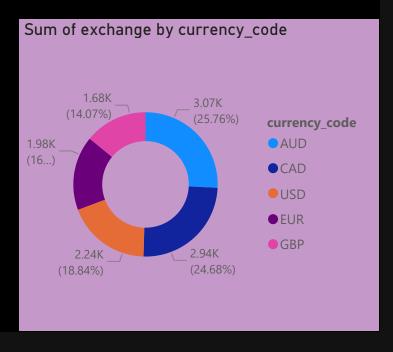












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Problem Statement:

Global Electronics, a prominent consumer electronics retailer, aims to leverage data-driven insights to boost customer satisfaction, streamline operations, and achieve business growth. By analyzing customer demographics, product performance, sales trends, and store metrics, the company seeks to pinpoint areas for improvement, refine marketing strategies, and establish effective pricing models, with a particular focus on the influence of currency exchange rates.

Business Use Cases:

The key objectives include enhancing marketing effectiveness, optimizing inventory management, and improving sales forecasting. By gaining insights into customer preferences and regional sales trends, Global Electronics can fine-tune its promotions, product offerings, and expansion strategies. Addressing the impact of currency exchange rates on international sales is essential for developing competitive pricing strategies in global markets.

Presented by Mugilan.D