

DATA SPARK: ILLUMINATING INSIGHTS OF GLOBAL ELECTRONICS

Welcome to Data Spark, a deep dive into global electronics sales trends. We will explore key customer demographics, product performance, and revenue patterns to gain a comprehensive understanding of the market.

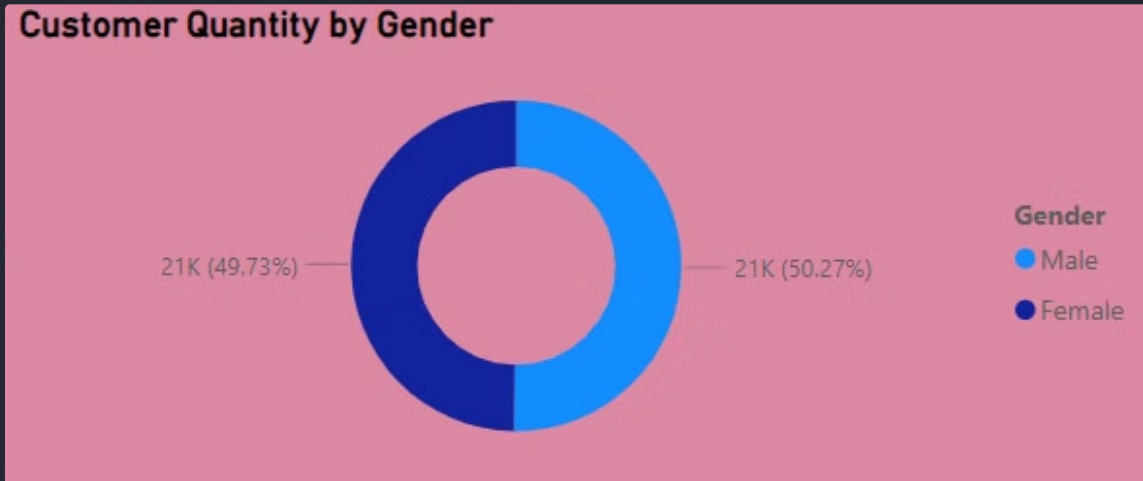


by **KIRUBANITHI R**



Gender-Based Customer Count Analysis

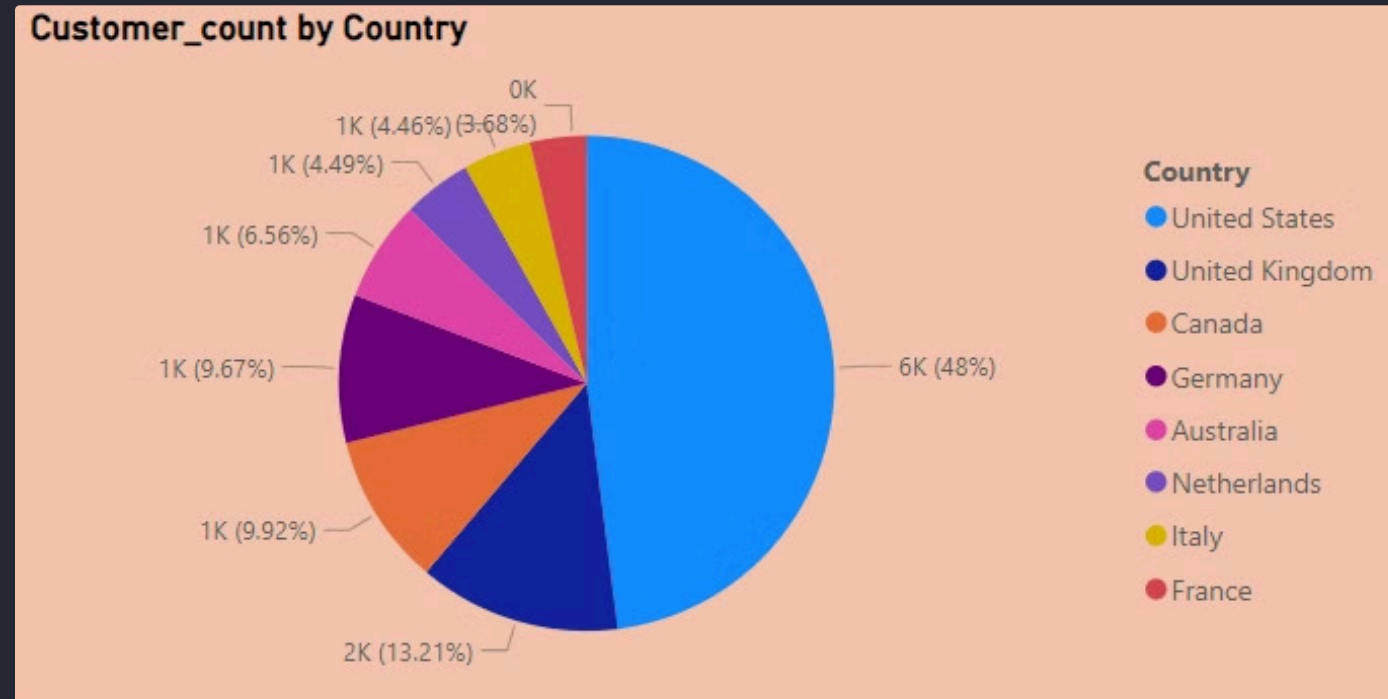
- **Key Insight:** The customer count is nearly balanced across gender, with males having a slightly higher customer count (20,766) than females (20,545).
- **Implication:** Gender doesn't seem to be a significant factor in product preference; focus may shift towards other demographics or regions.



Customer Distribution by Country

Key Insight: The United States dominates with over 50% of the total customer base (5,706), followed by the United Kingdom with 1,570 customers.

Implication: Focus marketing efforts and expansion strategies in the United States, while exploring ways to increase customer engagement in countries with lower counts, especially in France and Italy.



Least Frequent Products Analysis

- **Key Insight:** Products like "WWI Desktop PC1.80 E1800 White" and "Adventure Works Desktop PC1.60 ED160 Black" are the least frequently sold, with quantities under 500 units.
- **Implication:** These products may need marketing or promotional efforts to boost their sales.

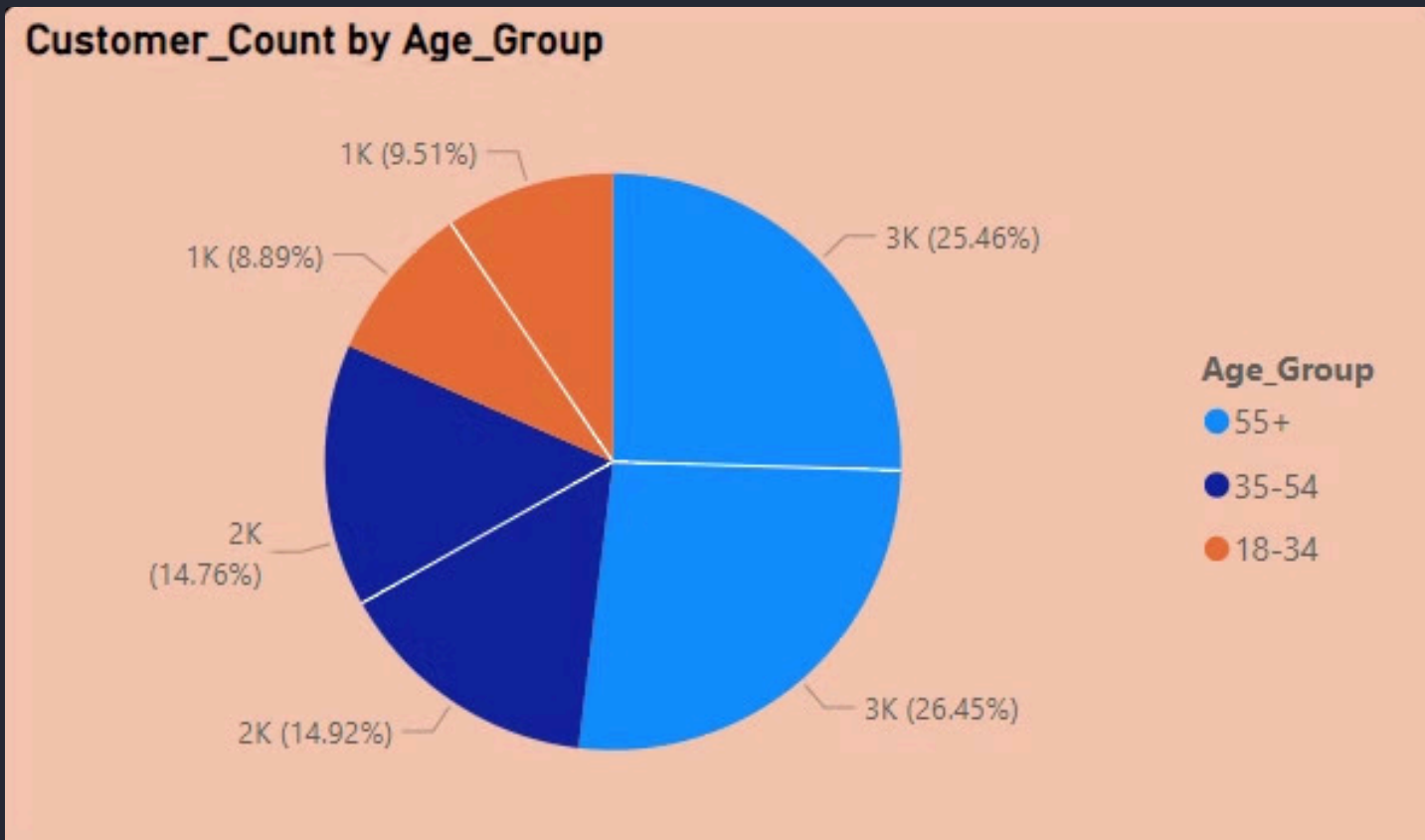
Least Ten frequency products

Product Name

Adventure Works Chandelier M8150 Black
Adventure Works Chandelier M8150 Silver
Adventure Works Desk Lamp E1300 Black
Litware 16" White Oscillating Stand Fan E701 White
Proseware Chandelier M0815 Black
Proseware Floor Lamp X0115 Blue
Proseware Wall Lamp E0215 Blue
WWI Floor Lamp M215 Grey
WWI Floor Lamp X115 Blue
WWI Wall Lamp E315 White

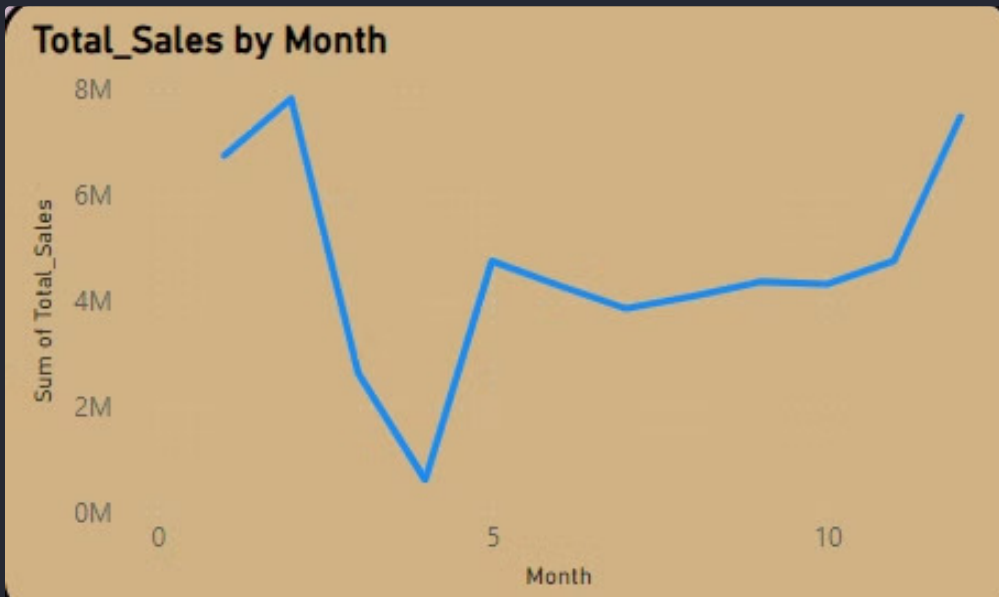
Age-Based Customer Count Analysis

- **Key Insight:** The 55+ age group has the highest customer count, with males leading slightly over females in this segment.
- **Implication:** The electronics market may see higher demand among older age groups, particularly for desktop PCs.



Monthly Sales Analysis

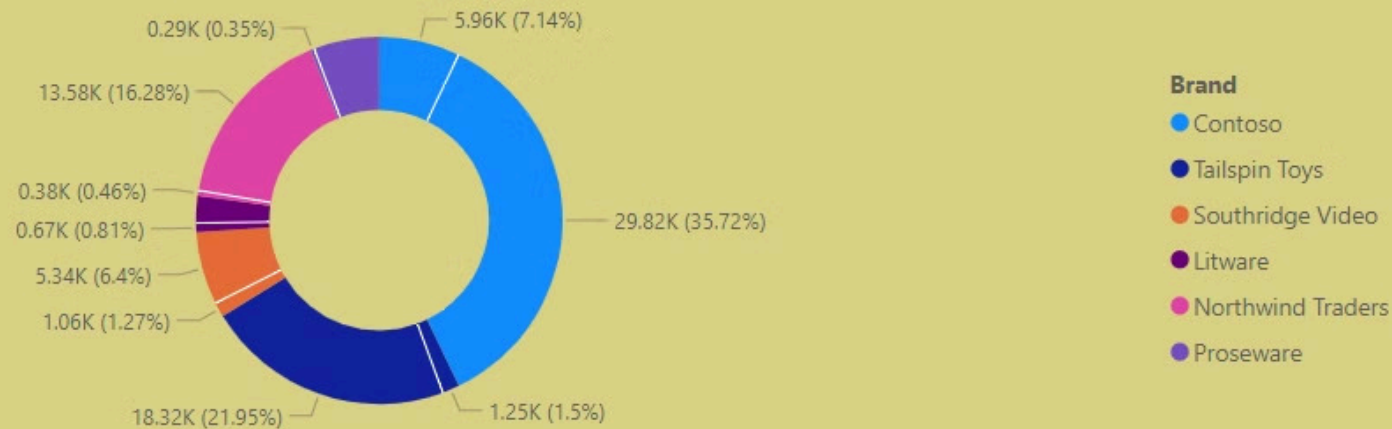
- **Key Insight:** Sales peak in **Month 1** and **Month 12**, possibly due to seasonal demand, while **Month 3** and **Month 4** see a significant drop.
- **Implication:** Plan for seasonal campaigns to leverage high-sales months and address dips in sales during off-peak periods.



Brand-Based Profit Margin and Total Profit

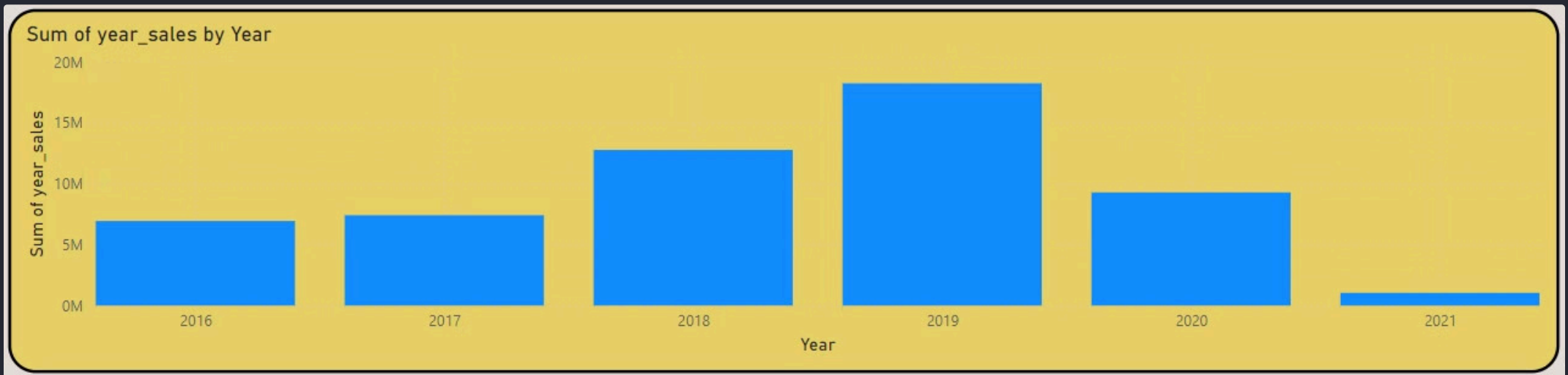
- **Key Insight:** **Contoso** leads in profit with **\$29.8 million**, followed by **Tailspin Toys** and **Southridge Video**.
- **Implication:** Brands like Contoso are highly profitable; explore strategies for further expanding its market share.

Total_Profit by Brand



Annual Sales and Revenue Trends

- **Key Insight:** 2019 shows the highest total sales at **\$18.26 million**, with a significant decline in **2020** and **2021**.
- **Implication:** External factors, likely the pandemic, caused a revenue drop; strategies should focus on recovery and future growth.



Product Quantity Sold

- **Key Insight:** Products like "WWI Desktop PC2.33 X2330 Black" and "Adventure Works Desktop PC1.60 ED160 Black" lead in quantity sold, with sales ranging from 500 to 550 units.
- **Implication:** These products are consistently popular and should be stocked more heavily or promoted further.





Conclusion and Key Takeaways

Improvisation: "As we move forward, understanding the dynamics behind top-performing products, regions, and customer segments will guide more effective decision-making. Focusing on product innovation, regional expansion, and brand loyalty will be key to maintaining momentum and capitalizing on new growth opportunities."

- Strong sales trends are observed in specific months, countries, and product categories. Store optimization and targeted marketing could boost underperforming areas.
- **Next Steps:** Leverage high-performing stores and products for future growth. Focus on recovering lost revenue from **2020-2021** and expand in top-performing regions.