Insights

1. Sales & Profit Trends

- Revenue and profit increased steadily from 2016 to 2019, with peak performance seen in 2020 and 2021. This could be due to Covid19.
- Sales and profit **seasonality is evident**, suggesting promotional periods or holiday effects. E.g. High sales and profit in November due to holidays.
- United States leads in total sales followed by the United Kingdom and Germany.
- Online sales are recorded as a separate "country", and they perform comparably to some physical countries.

2. Store Performance

- A small number of stores generate **disproportionately high revenue**, suggesting either location advantage or store size.
- There is a **clear correlation** between **store age and average sales**, with stores (2-5 years) slightly outperforming older ones.

3. Product Performance

- The top 10 products generate revenues above \$360K each, while the bottom 10 products barely cross \$40K, indicating a long tail in product performance.
- Computers and Home Appliances are the leading categories, with the Desktop PC and HDTV models dominating revenue.
- Adventure works, Contoso and wide world importers are the top performing brands across the countries.

4. Customer Behavior

- Male and female customers are nearly equal in distribution.
- Customers aged 20–29 and 30–39 have the highest average sales, followed closely by other working-age groups.
- **61.16%** of customers made repeat purchases, a strong indicator of loyalty.
- Repeat customers tend to be **high-value customers**, with some placing **10–14 orders**.

6. Delivery Performance

Most deliveries are fulfilled within 5 to 10 days, but a long tail of late deliveries exists.

Recommendations

1. Boost High-Performing Products:

- o Focus marketing and stock on top-performing desktops and HDTVs.
- Consider bundling low-selling accessories with high-demand products to move inventory.

2. Strengthen Online Channel:

 Online sales are significant; optimize website experience, recommendations, and delivery for further growth.

3. **Geographic Expansion:**

 Analyze high-performing states (e.g., California, Texas) and expand store presence or invest in local marketing.

4. Improve Delivery Time:

 Investigate reasons for outliers in delivery delays and optimize logistics to enhance customer satisfaction.

5. Customer Loyalty Programs:

- With 61% repeat rate, implement or refine loyalty programs to further encourage repeat purchases.
- o Target high-frequency buyers with **exclusive promotions** or early access to sales.
- o Target low-frequency buyers with discounts on their next purchases.

6. **Optimize Store Operations:**

- Study low-performing stores (e.g., Store Key 2 or 18) for root causes location, staff, inventory, etc.
- Replicate practices of top-performing stores in underperforming regions.
- o Analyze newly opened stores for their underperformance

7. Age-Specific Campaigns:

- Tailor marketing campaigns toward age groups 20–39, which drive higher average revenue.
- Tailor marketing campaigns toward other age groups to encourage people to buy products.