

Project Analysis Done With: POWER BI



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Analysis on NovaMed Solutions





Business Overview

NovaMed Solutions is a leading pharmaceutical distributor catering to a broad and diverse healthcare sector across North America, **Europe, and Australia** — specifically operating in **Canada**, Australia, Germany, the United Kingdom, France, and the **United States.** With a focus on delivering high-quality medications to hospitals, clinics, and pharmacies, NovaMed manages comprehensive portfolio of pharmaceutical products tailored to meet varying regional demands.



Business Problem

NovaMed Solutions, a leading pharmaceutical distributor, is at a critical crossroads in its growth journey. While the company plays a vital role in supporting a diverse healthcare sector by ensuring the consistent availability of essential medications, it is currently grappling with key operational challenges. These include **suboptimal sales performance**, **inventory inefficiencies**, and a lack of precision in market targeting. Gaps in demand forecasting, stock replenishment, and customer engagement are not only straining resources but also hindering NovaMed's ability to fully capitalize on emerging market opportunities. Addressing these inefficiencies is essential for unlocking the company's next phase of scalable, data-driven growth.



Aim of Project

To optimize operational strategy and customer engagement, NovaMed undertook a comprehensive sales performance analysis spanning January to December (2022 – 2024). This analysis aimed to:

- Evaluate total revenue and profitability trends across global regions.
- Identify top-performing drugs and analyze their contribution to total sales.
- Understand monthly revenue fluctuations to align marketing and logistics strategies.
- Pinpoint top and bottom performing customers to inform retention and acquisition strategies.
- * Examine **customer demographics** such as age, gender, and buyer type to fine-tune personalization and service offerings.

This data-driven review equips NovaMed's leadership with actionable insights to **enhance profitability**, **streamline inventory**, and **improve customer targeting**, laying a foundation for smarter decision-making in future growth initiatives.



NovaMed Solutions

Data Description

Drug Information

Drug ID – Unique identifier for each drug.

Regulatory Compliance ID – Identifier for regulatory approval and compliance tracking.

Drug Name – Name of the drug.

Unit Sales Price – Selling price per unit of the drug.

Cost Of Production – Cost incurred to produce one unit of the drug.

Treats—The medical condition or illness the drug is used to treat.

Sales Information

Sale ID – Unique identifier for each sales transaction.

Drug ID – Identifies the drug sold in the transaction.

Customer ID – Identifies the customer who made the purchase.

Units Sold – The quantity of the drug sold in the transaction.

Sale Date –The date on which the sale occurred.

Buyer Type – Classification of the buyer (e.g., individual, pharmacy, hospital).

Customer Information

Customer ID – Unique identifier for each customer.

First Name – Customer's first name.

Last Name – Customer's last name.

Age – Age of the customer.

Gender – Gender of the customer.

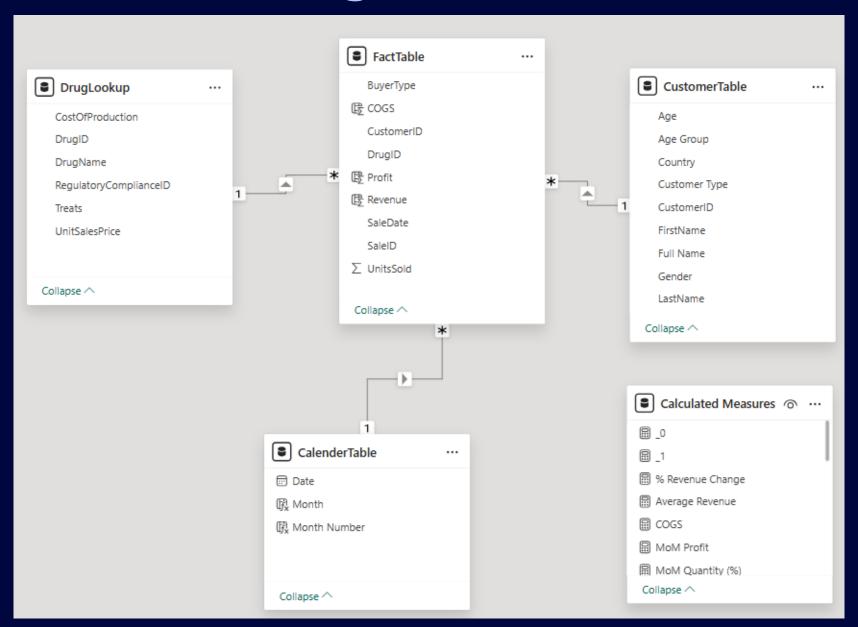
Country – The country where the customer is located.

Other Customer Info – Additional details about the customer.





Data Modelling (Showing Relationship between Tables)





CUSTOMER ANALYSIS







DESCRIPTION OF TOOLS USED | CUSTOMER ANALYSIS

- ❖ Cards (New): To display Key Performance Indicators (KPI) such as Total Customers, Total Quantity Sold, Total Revenue and Total Profit.
- Clustered Bar Chart: To explain Revenue Distribution among Countries.
- ❖ Donut Chart: Showing Revenue Distribution among the Age Groups.
- **Clustered Column Chart:** Explaining Age Group and Gender contributions to the Total Revenue.
- ❖ Decomposition Tree: Breaking down Average Revenue Distribution by Customer Type, Gender and Age Group.
- * Map: Showing Geographical Revenue Distribution.





CUSTOMER ANALYSIS CONTD

KEY INSIGHTS:

1. Revenue Overview

- Total Revenue: \$71.31M with a Monthly Revenue Growth of just 0.03% 14.11% and instances of negative MoM Revenue.
- **Total Profit:** \$58.45M (82% profit margin) indicates **strong profitability**.
- Total Quantity Sold: 269K units.

Insight: Despite high profits, revenue growth is **staggering** (0.03% to 14.11% and negative revenue changes MoM).

KEY INSIGHTS:

2. Customer Composition

• Total Customers: 200

Customer Type Breakdown:

• **Preferred Customer:** \$25.63M (35.9%)

• **New Customer:** \$24.29M (34.0%)

• Frequent Buyer: \$21.38M (30.0%)

Insight: Revenue is fairly **evenly distributed across customer types**, showing a balanced acquisition and retention effort.

KEY INSIGHTS:

- 3. Geographical Revenue
- Top Countries by Revenue:

Canada: \$31,667,202.53 Australia: \$15,253,937.11

• Germany: **\$6,618,489.61** United Kingdom: **\$6,605,118.37**

• France: \$5,584,466.27 United States: \$5,577,904.39

Insight: Canada had the highest Total Revenue and was 467.73% higher than United States, which had the lowest Total Revenue at \$5,577,904.39. **Canada accounted for 44.41%** of Total Revenue, suggesting a need to diversify geographically.





CUSTOMER ANALYSIS CONTD



KEY INSIGHTS:

4. Revenue by Gender and Age

- **Male** had the highest Total Revenue at \$33,226,148.41, followed by Female at \$22,954,436.06 and Other at \$15,126,533.81.
- Male Adult made up 15.77% of Total Revenue. Male had the highest average Total Revenue at \$11,075,382.80, followed by Female at \$7,651,478.69 and Other at \$5,042,177.94.

Insight: Male customers, especially **older demographics**, are driving the most revenue.

KEY INSIGHTS:

5. Average Revenue by Customer Segment

- **Preferred Customers** generate the highest average revenue per customer (\$4,687).
- **Frequent Buyers** generate the least (\$3,467).

Insight: The **Preferred segment** is highly valuable; **Frequent buyers** may be under-leveraged or offer-driven rather than valuedriven.



CUSTOMER ANALYSIS CONTD



RECOMMENDATIONS:

1. Boost Revenue Growth

- Introduce seasonal campaigns and loyalty programs to boost MoM growth.
- Invest in **customer retention journeys** to move new customers toward preferred status.

RECOMMENDATIONS:

2. Diversify Revenue Geographically

- Expand marketing in **United States, France, Germany and the UK**, where revenue is under \$7M.
- Localize offerings and optimize logistics for those regions.

RECOMMENDATIONS:

3. Maximize Male Customer Value

Create targeted campaigns for Adult and Aged Male segments.

Introduce **health-conscious** or **premium-tier** products aligned with their preferences.

RECOMMENDATIONS:

4. Upsell to Frequent Buyers

- Assess why Frequent Buyers spend less on average.
- Offer bundling discounts, exclusive products, or crosssells to increase cart size.

RECOMMENDATIONS:

5. Product & Service Optimization

- Track high-performing regions and customer types against product categories.
- Identify which campaign thrives in new regions before full-scale rollouts.

SALES ANALYSIS (TOP/BOTTOM ANALYSIS)





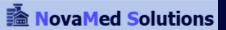
Alice Johnson

454 \$2,824,525.15 \$2,302,294.39

\$274,431.83

Carol Smith

\$234,483.49



DESCRIPTION OF TOOLS USED | SALES ANALYSIS

- **Cards (New):** To display Key Performance Indicators (KPI) such as Total Product, Total Orders, Total Quantity Sold, Cost of Goods Sold (COGS), Total Revenue, Total Profit and Profit Margin.
- ❖ Area Chart: Showing relationship between Revenue and Profit.
- **❖ Clustered Column Chart:** Explaining Product performance (Top 5 Products) in terms of Orders, Revenue and Profit.
- ❖ Stacked Bar Chart: Visualizing the Bottom 5 Products in terms of Orders, Revenue and Profit.
- ❖ Matrix: Visualizing Top and Bottom 10 Customers contributions to Orders, Revenue and Profit.





SALES ANALYSIS (TOP/BOTTOM ANALYSIS)



KEY INSIGHTS:

- Top Products: doxycycline generated the highest revenue and profit among top-performing drugs.
- * Revenue Trends: Peak revenue months were July and January with \$6.42M and \$6.26M respectively in revenue; February and June were the weakest.
- ❖ Top Customers: David Johnson and Bob Williams contributed over \$3M in profit each.
- Bottom Customers: Jane Jones had high revenue but low profit due to low margin sales.
- Sales Distribution: 40 products generated 269K in quantity sales and \$71.31M in revenue, with a high 82% profit margin.

RECOMMENDATIONS:

- * Boost Sales of High-Margin Drugs: Promote and stock up on Hydrochlorothiazide and Fluticasone which show strong margin performance.
- ❖ Focus on High-Value Customers: Strengthen loyalty programs for top 10 customers to ensure retention.
- * Review Pricing Strategy: Investigate Jane Jones' sales to identify why high revenue yielded low profit possible pricing or discount issues.
- ❖ Capitalize on Peak Months: Plan campaigns and promotions in July and January when customer activity is high.
- * Reassess Low-Performing Stocks: Evaluate long-tail products contributing little to revenue but consuming resources.

THANK YOU

