

Project Overview

This Power BI dashboard provides detailed insights into key sales and financial metrics, including Gross Profit (GP%), Year-to-Date (YTD) Sales, Prior Year-to-Date (PYTD) Sales, and Cost of Goods Sold (COGS). By leveraging these visualizations, businesses can analyze trends by product, account, and year, enabling data-driven decision-making.

Data Sources

The dashboard is built using structured datasets with the following key fields:

- **Product_id**: Unique identifier for products
- **Account_id**: Unique identifier for accounts
- **Sales_USD**: Total sales in USD
- **COGS_USD**: Cost of Goods Sold in USD
- **Price_USD**: Product price in USD
- **Quantity**: Number of units sold
- **GP%**: Gross Profit percentage
- **Latitude & Longitude**: Geographic data for location-based insights
- **Street_number, Master_id, First Postal_code**: Additional customer or location details
- **Year**: Temporal dimension for trend analysis
- **Inpast**: Boolean field indicating historical data

Dashboard Components

1. GP%, YTD Sales, PYTD Quantity, Sum of Sales & COGS by Product ID

- A combination of line and area charts visualizing financial indicators across different products.
- Helps identify sales performance trends and COGS fluctuations per product.

2. Minimum COGS (1.53K)

- Displays the minimum Cost of Goods Sold across the dataset.
- Useful for cost analysis and optimization.

3. Total COGS (18.11M)

- Represents the total Cost of Goods Sold over a defined period.
- Includes breakdowns by year and "Inpast" status.

4. PYTD Sales vs. YTD Sales by Account ID

- A line chart comparing Prior Year-to-Date (PYTD) Sales with Year-to-Date (YTD) Sales per account.
- Useful for evaluating customer retention and sales growth.

5. GP% & Sales Breakdown (Pie Chart)

- Illustrates the proportional contribution of GP%, PYTD Sales, YTD Sales, and other financial metrics.
- Aids in visualizing revenue distribution.

6. PYTD Gross Profit and Sales Comparison by Year

- A bar chart comparing PYTD Gross Profit and related metrics across different years.
- Highlights changes in sales and profitability trends over time.

Key Insights

- **Product Sales Performance:** Identifies best-selling products and their profitability.
- **Customer Trends:** Analyzes customer spending behavior over time.
- **Yearly Comparisons:** Tracks business growth and profitability across different years.
- **Cost Analysis:** Provides insights into cost variations and areas for optimization.

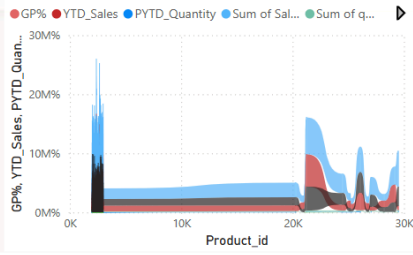
Recommendations

- **Refine Data Filters:** Introduce interactive filters for better drill-down analysis.
- **Add Forecasting Models:** Implement predictive analytics for future sales trends.
- **Enhance Geospatial Analysis:** Utilize latitude and longitude data for improved geographic insights.
- **Optimize Cost Analysis:** Further breakdown of COGS by category for better cost management strategies.

Conclusion

This Power BI dashboard offers a comprehensive view of sales, costs, and profitability metrics. Through intuitive visualizations, stakeholders can make informed, data-driven decisions to enhance business performance and strategic planning.

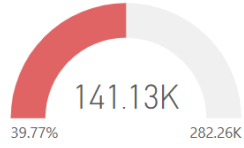
GP%, YTD_Sales, PYTD_Quantity, Sum of Sales_USD, Sum of quantity, Sum of Price_USD and Sum of COGS_USD by Product_id



1.53K

Min of COGS_USD

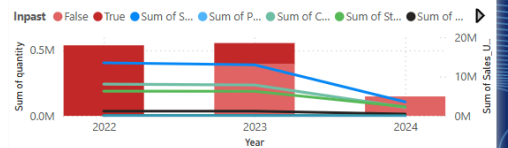
Sum of Price_USD, GP%, Sum of Master_id, Sum of longitude, Sum of latitude and First Postal_code



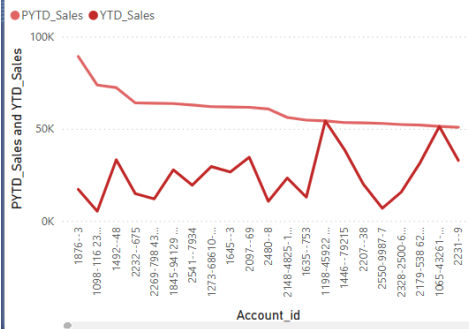
18.11M

Sum of COGS_USD

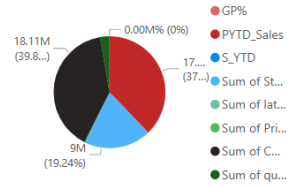
Sum of quantity, Sum of Sales_USD, Sum of Price_USD, Sum of COGS_USD, Sum of Street_number, Sum of Master_id, Sum of longitude and Sum of latitude by Year and Inpast



PYTD_Sales and YTD_Sales by Account_id



GP%, PYTD_Sales, S_YTD, Sum of Street_number, Sum of latitude, Sum of Price_USD, Sum of COGS_USD and Sum of quantity



PYTD_GrossProfit, Sum of Sales_USD, Sum of Price_USD, Sum of COGS_USD, Sum of Street_number, S_PYTD, S_YTD, YTD vs PYTD and Sum of quantity by Year

