

IT362 : Generating Reports using Power BI

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In this file I will write about my experience with power bi for the first time, which tools did I use and what is the findings and observation about the database.

• Summary about Power bi:

Power BI is a powerful business intelligence tool developed by Microsoft. It allows users to create interactive dashboards and reports, and offers a wide range of visualization options, such as charts, graphs, maps, and tables, enabling users to analyze and interpret data effectively. It's a comprehensive tool for data analysis and visualization, empowering businesses to make informed decisions based on their data.

• Sales Dashboard:

I used the Sales dataset to make a brief report using Power bi, and after watching some tutorials in YouTube I chose these tools:

- 1- Four filters (Dealsize – Status – Month - Year)

- 2- One treemap for the Countries.

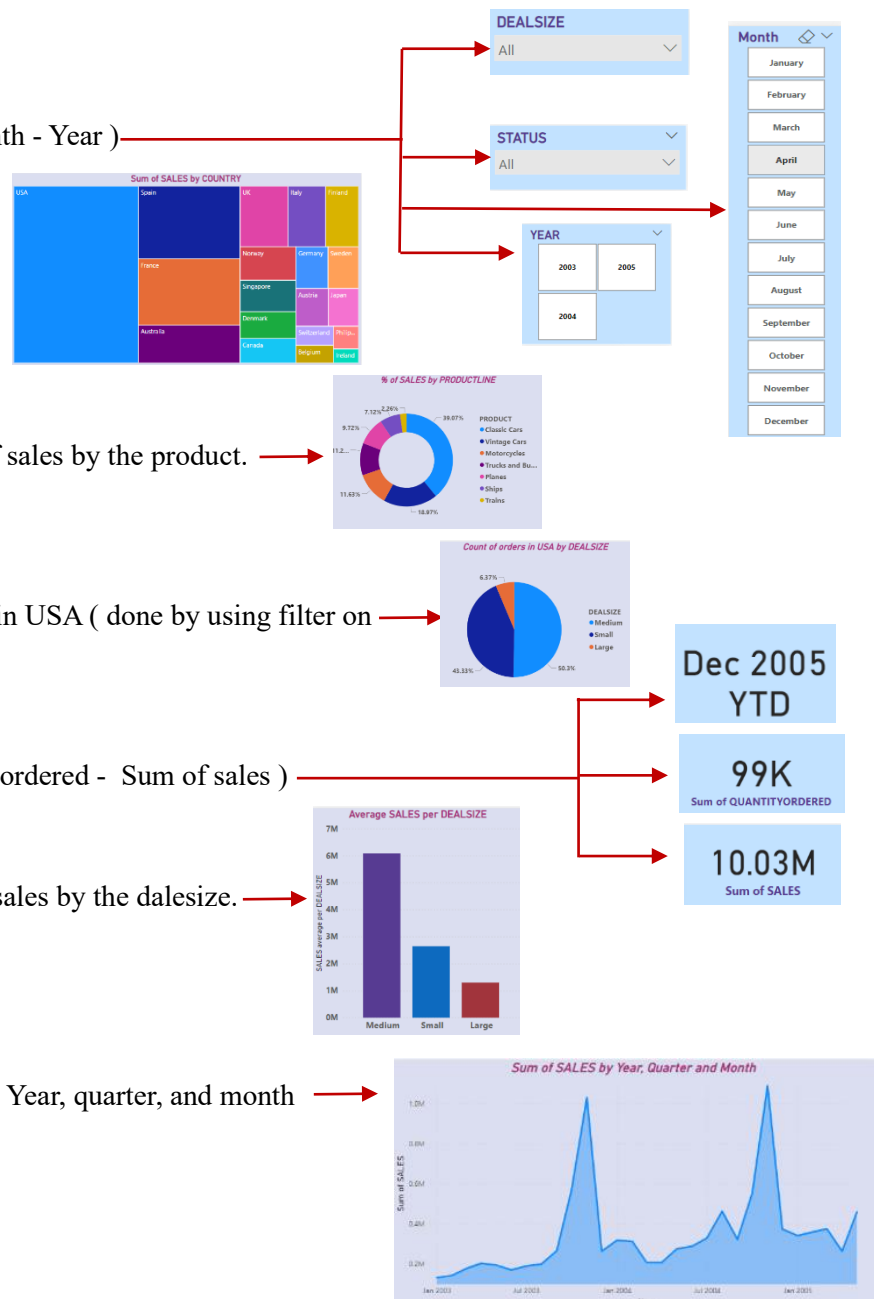
- 3- One donut chart for the percentage of sales by the product.

- 4- One pie chart for the count of orders in USA (done by using filter on Country) by the dalesize.

- 5- Three Cards (YTD – Sum of quantityordered - Sum of sales)

- 6- One column chart for the average of sales by the dalesize.

- 7- One line chart for the sum of sales by Year, quarter, and month

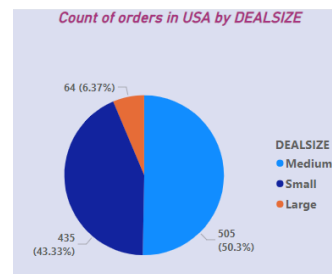
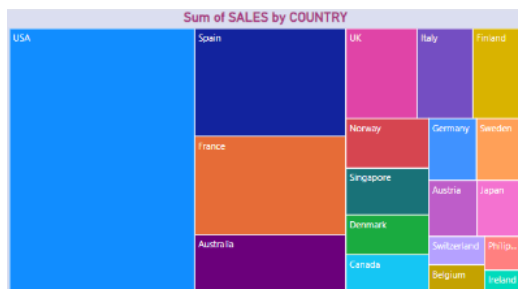


• Findings and observations:

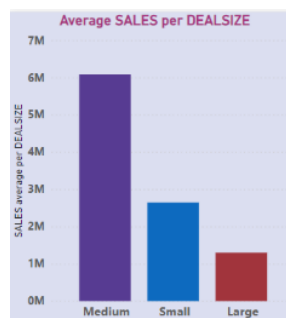
After using these tools and visualizes the data we can see that :



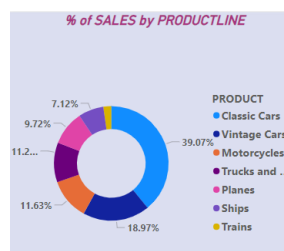
- 1- According to the line chart we can tell November 2004 was the highest sum of sales with (1,089,048,01) and the lowest was (129,753,60) in January 2003.



- 2- From the treemap above we can see that USA is the highest country with sales so I used this information to make my pie chart to see which DealSize was ordered the most in USA and it turns out to be Medium with (505 order).

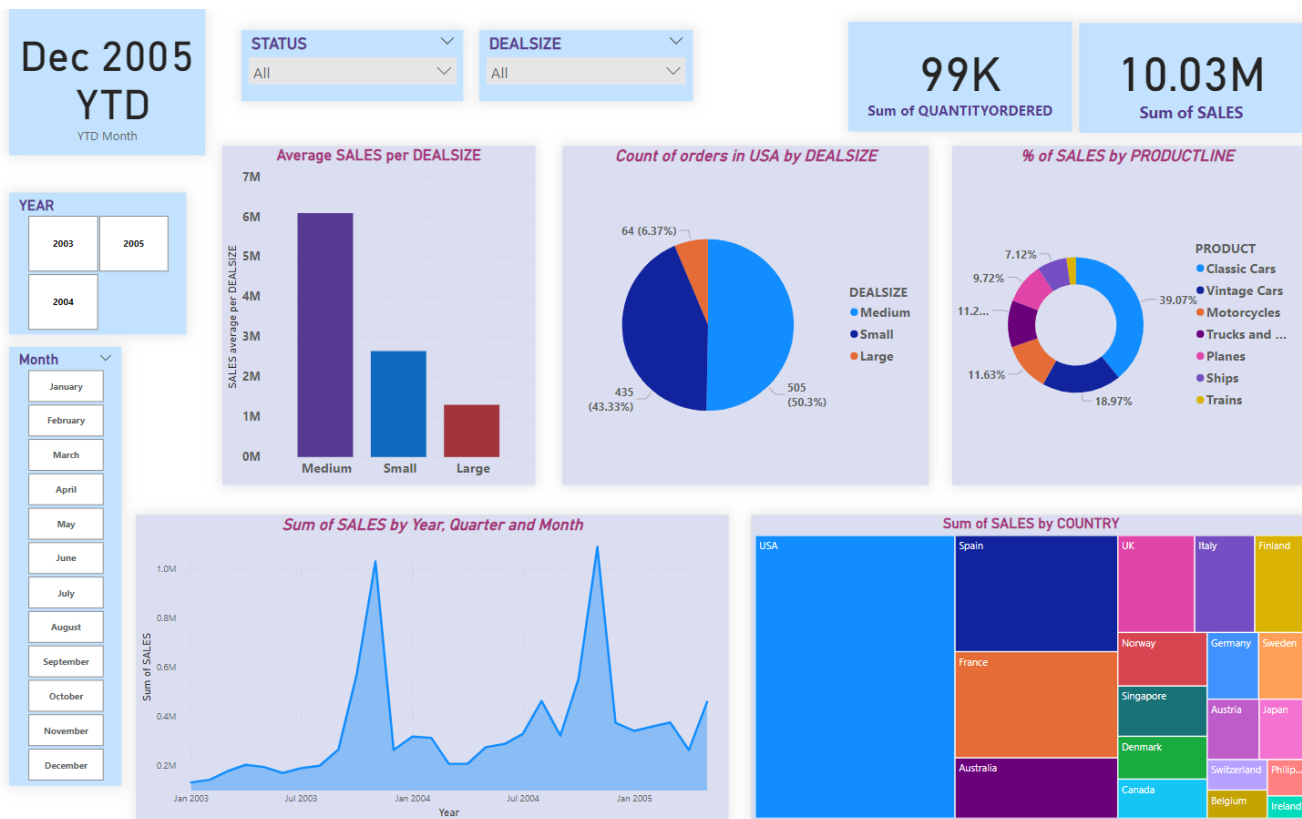


- 3- After calculating the average of sales per DealSize I used column chart above to see which DealSize have the most average sales and it was medium with 6 million and the Lowes was large with 1 million.



- 4- After calculating the percentage of sales per ProductLine I used donut chart to visualize the result and we can see that (classic cars) have the highest sales among the other products.
- 5- I calculate the YTD which provide the reader when the data is last updated which is to (December 2005) and put it in a card in the top of my dashboard.
- 6- I also visualize the sum of sales and the sum of orders as Cards. And I used some filters in the side such as (year – status of order – dealsize – month) the reader can choose anything from the filters and all the charts and the cards (expect YTD card) will change automatically according to the information chosen in the filters.

- **A look at the report:**



(you can use the filters and the charts only if you open the power bi file itself)

- **Conclusion:**

I enjoy using power bi and find it easy to use with its user-friendly interface and easy-to-understand insights.