

PowerBi Project

Sales Analysis Report/Dashboard

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End to End Project in PowerBI

Company statement :- TechnoEdge Learning Services faces the challenge of handling a significant amount of data on a monthly basis. To address this, the company has established a dedicated team responsible for cleaning and consolidating the data, as well as creating detailed Excel reports. However, this manual process is time-consuming and resource-intensive. By implementing Power BI, TechnoEdge can automate and streamline this data management process. Power BI offers powerful data cleansing and transformation capabilities, allowing the team to automate the cleaning and combining of data. Furthermore, Power BI provides a user-friendly interface for creating dynamic and interactive reports, eliminating the need for time-consuming manual report generation. With Power BI, TechnoEdge Learning Services can significantly reduce the time and effort required for data management and reporting, enabling the team to focus on more valuable analysis and insights.

Keywords- Power BI, automation

Data :- The data is been provided online in .csv file

End Goal :- "Transform your data management and reporting with our automated Power BI dashboard, providing insightful analytics and saving you valuable time."

Steps Performed:-

Here are the steps performed to create a beautiful and automated Power BI dashboard:

- 1) Ensure the company **data is clean and free** of duplicates using the **Power Query Editor window**.
- 2) Make necessary **updates and changes to the data**, ensuring accuracy and relevance.
- 3) Create visually appealing **charts, graphs, and pie charts in Power BI** to present the data effectively.
- 4) Apply proper **alignment, themes, and formatting** to enhance the visual appeal of the dashboard.
- 5) Publish the **Power BI desktop to the Power BI online service**, making it accessible to relevant personnel.
- 6) Set up **email automation** to automatically send updated results to company personnel, keeping them informed of the latest updates.
- 7) Integrate the Power BI dashboard with **Microsoft Teams** to facilitate seamless discussions and collaboration among team members.

Learnings:-

Here are the key learning points related to Power BI:

1) **Data Visualization:** Power BI enables users to create visually appealing and interactive charts, graphs, and dashboards to effectively analyze and present data.

2) **Data Cleaning & Automation:** Power Query, a part of Power BI, provides powerful data cleaning and transformation capabilities. It allows users to clean and shape the data, remove duplicates and automate the data cleaning process.

3) **Various Charts and Graphs:** Power BI offers a wide range of visualization options, including bar charts, line charts, pie charts, scatter plots, maps, and more. Users can leverage these visualizations to represent data in meaningful and insightful ways.

4) **Converting Desktop Service to Power BI Online Service:** Power BI allows users to publish their Power BI Desktop reports to the Power BI online service. This enables data sharing, collaboration, and access to the reports from anywhere with an internet connection.

By mastering these concepts, users can effectively analyze and present data, automate data cleaning processes, leverage different visualization techniques, and share their insights using Power BI's online service.

Screenshots :-

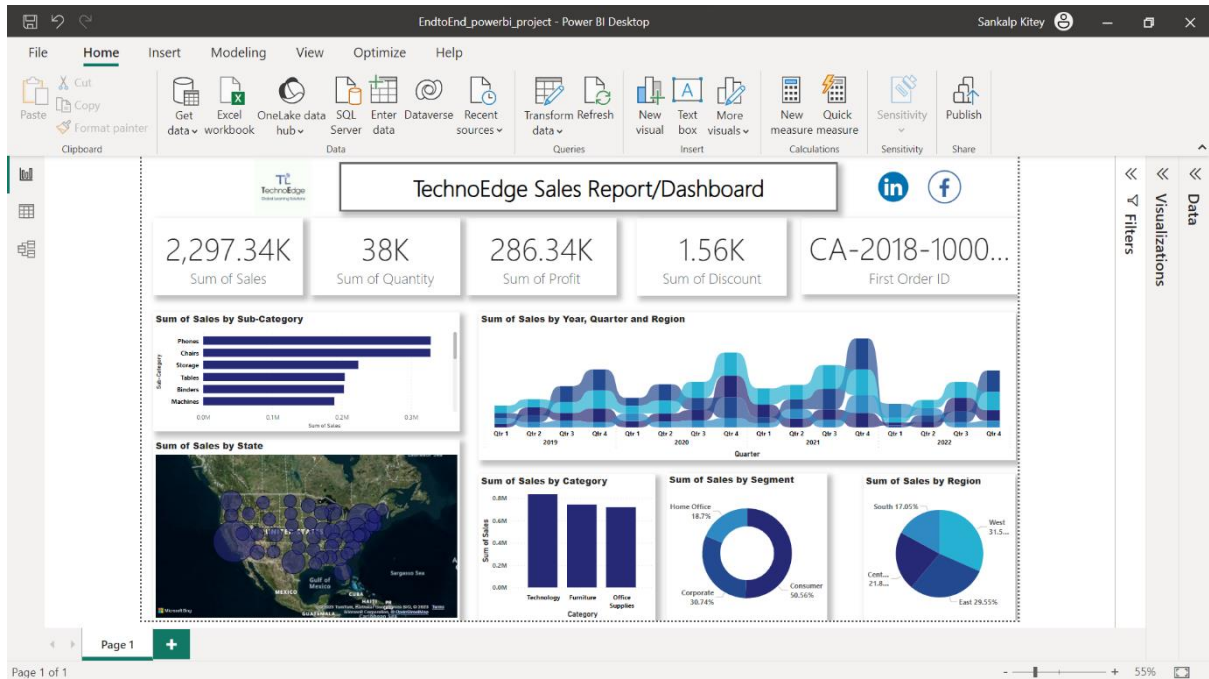


Fig :- PowerBI desktop

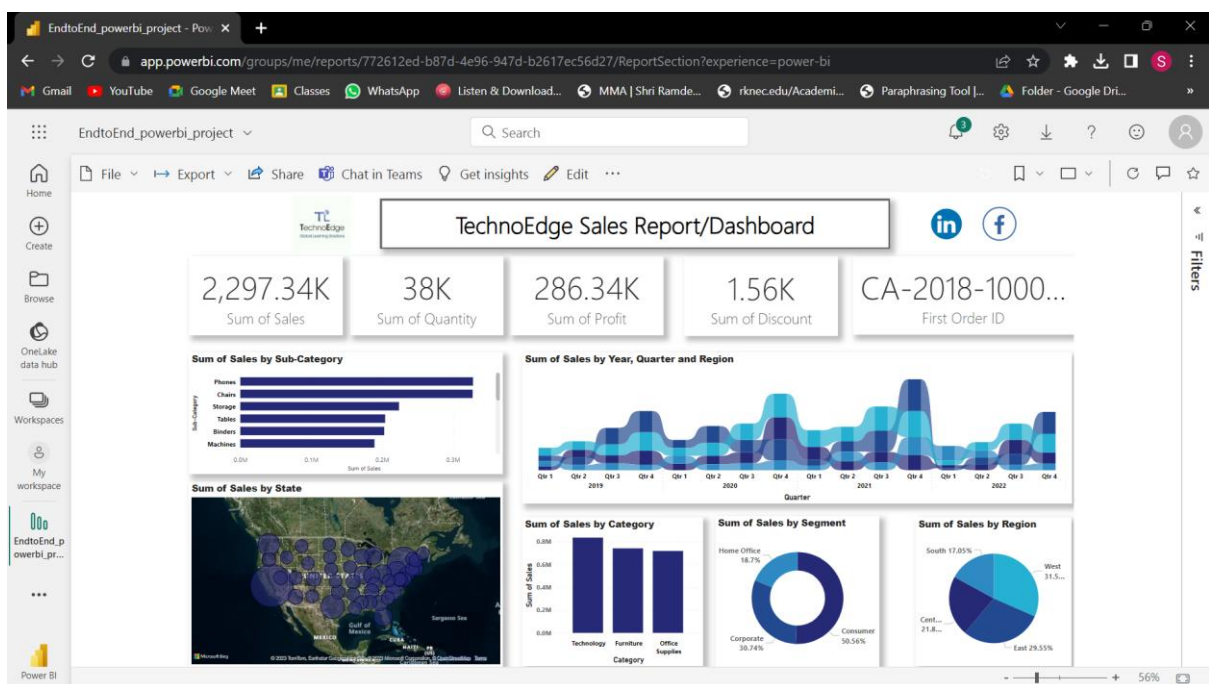


Fig:- PowerBi Service

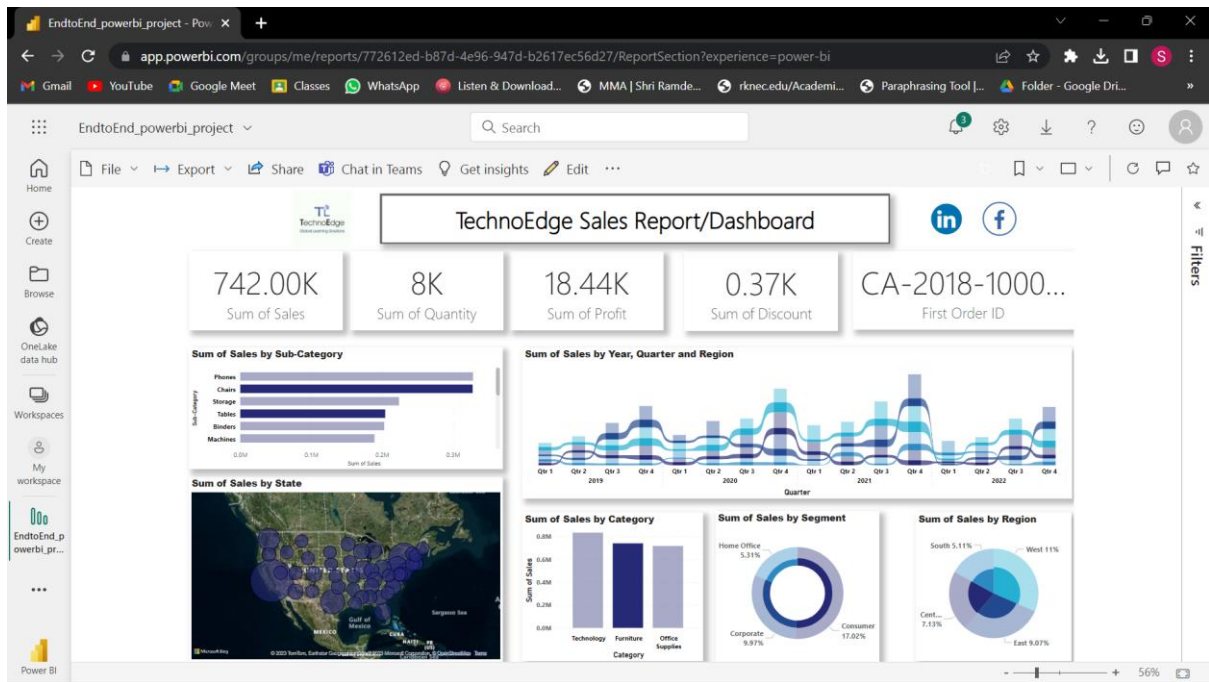


Fig :- Interaction with the dashboard when Furniture category is selected

Link :- For online viewing

<https://app.powerbi.com/groups/me/reports/772612ed-b87d-4e96-947d-b2617ec56d27/ReportSection?experience=power-bi>