Logistics Dashboard by

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Agenda

- Problem Statement
- Data Set
- Data Transformation
- Data Model
- Insights gathered
- Dashboards
- Conclusion

Problem Statement

A logistics and supply chain company wants to make a dashboard for OTIF Analysis. On-time in full is a supply chain metric for measuring performance in the logistics industry. OTIF generally refers to a supplier's ability to deliver product within prescribed delivery windows and at full quantities ordered.OTIF was designed to improve store operations within Walmart itself and quickly led to a series of major changes as other retailers and companies quickly adopted it.

So I have data which considers 4 sheets that are Orders, Salesperson, Customers, and City.

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Data Set

- The data set for the analysis is obtained from the below link.

- Link: https://drive.google.com/drive/folders/1IE3Z2NFN0zqXpl KOfdrBPSHJvCaDO2RS?usp=sharing

Data Transformation

- The dataset comprises four Excel sheets: Orders, Customers, Salesperson, and City. Within the Orders table, data concerning order placement, including customer ID, Order ID, Order date, Scheduled delivery date, actual delivery date, etc., is present. This Excel sheet is transferred to Power BI, where data types are reviewed and adjusted as necessary. Additionally, any Null values within the columns are removed. The same process is applied to the other Excel sheets, as they are imported into Power BI, ensuring data type consistency and eliminating Null values in their respective columns.

Data Model

- Within Power BI, the data models undergo scrutiny to validate relationships. A one-to-many relationship is established between the City query and the customer query, sharing a common column identified as city ID. Likewise, there is a one-to-many relationship between the Customer and Orders queries, with the common column referenced as Customer ID. Furthermore, an additional one-to-many relationship is identified between the Orders and Salesperson queries, where the connecting column is the Salesperson ID.

Insights gathered

➢ The delivery punctuality stands at 183,000 units, while the overall count of successfully delivered orders amounts to 243,340 units.

➢ The total number of customers is 11,630.

➢ In 2019, the total orders delivered amounted to 146,338, while in 2020, the number decreased to 97,005.

➢ The total number of returns was 37,000.

➢ The grocery store service channel received a maximum of 59,930 orders and The Bazar service channel received the minimum number of orders

➢ City Vista and Warren collectively accounted for the highest order placement, making up approximately 28.2% of the total orders.

➢ Customer 5974 had the highest sum of returns, totaling 192 and The customer with ID 148027 placed the maximum number of orders.

➢ March and June of the year 2019 exhibited high On-Time Delivery (OTD) performance.
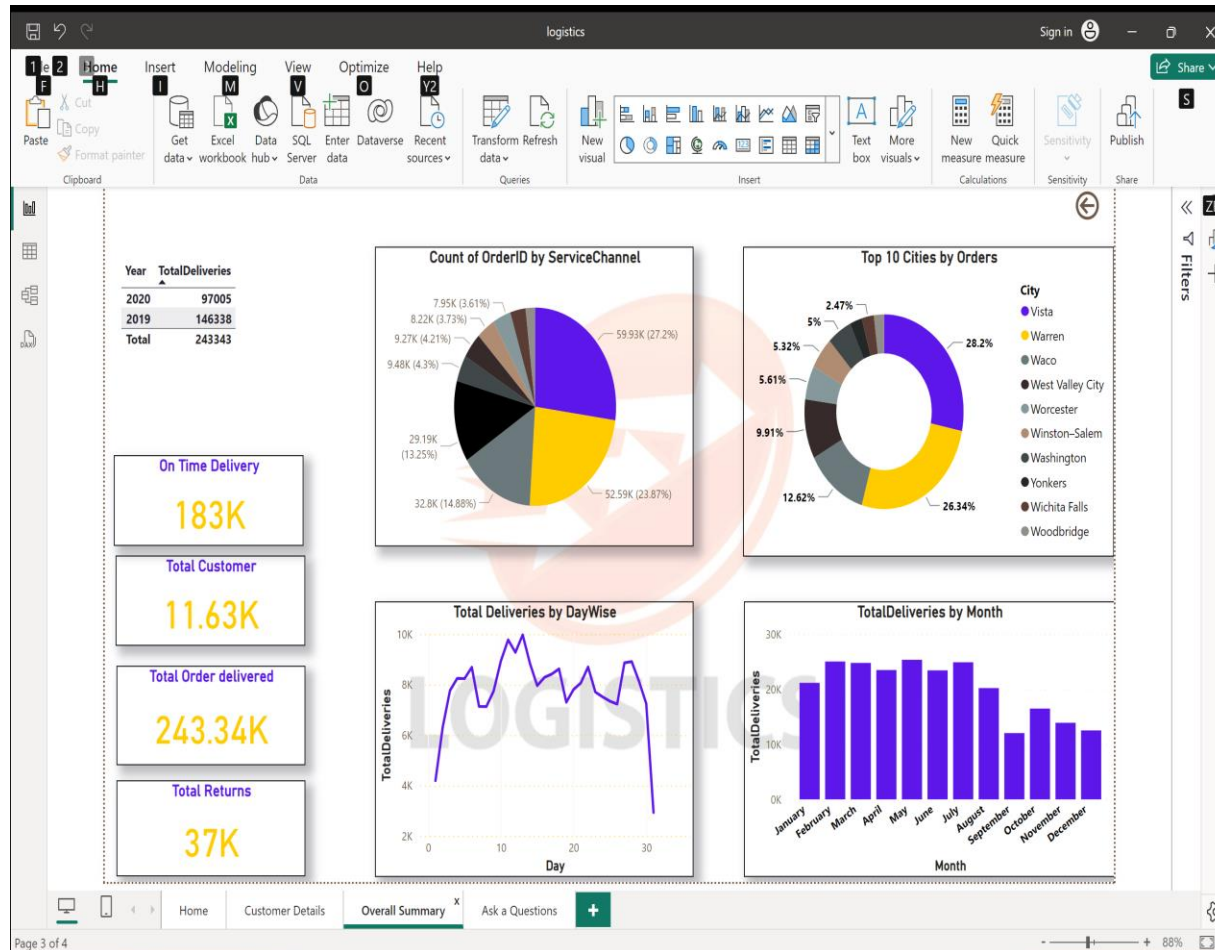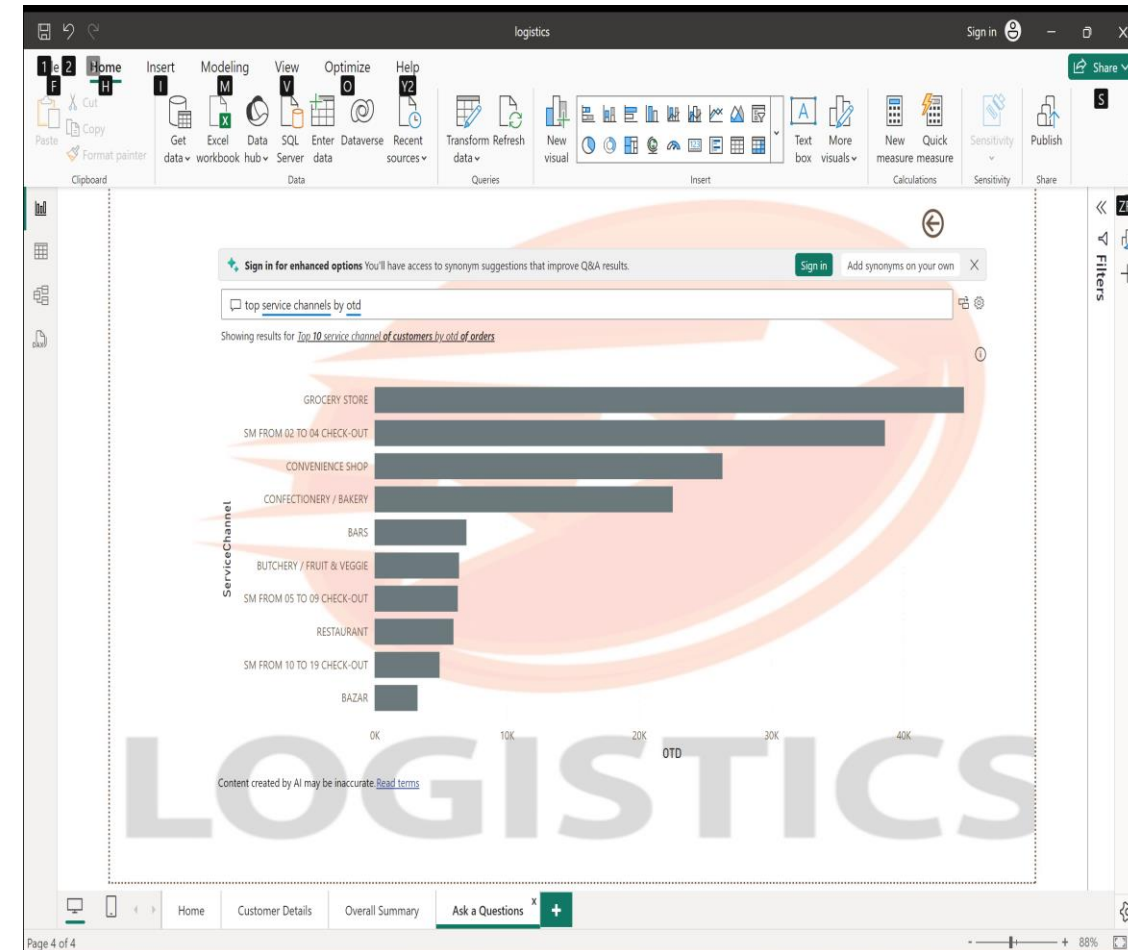
Dashboards

Home
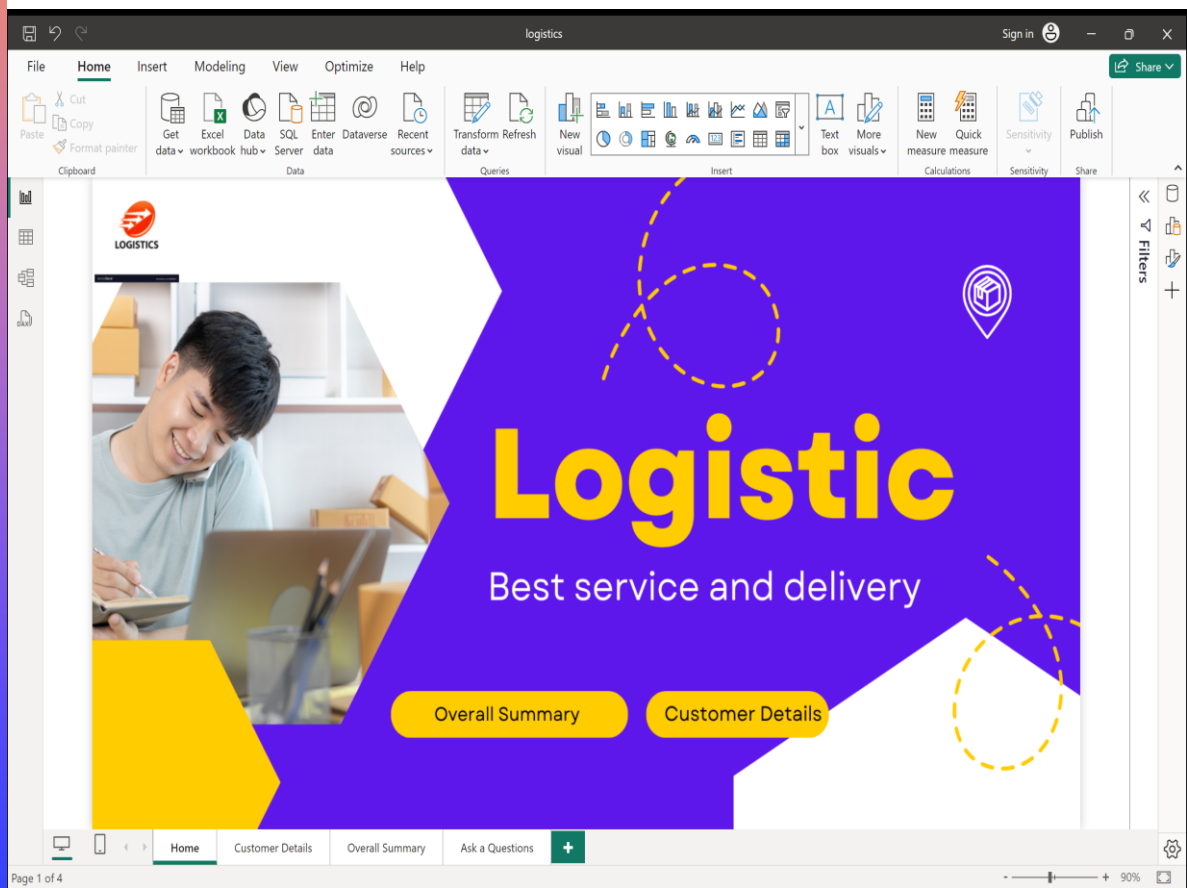
Customer Details
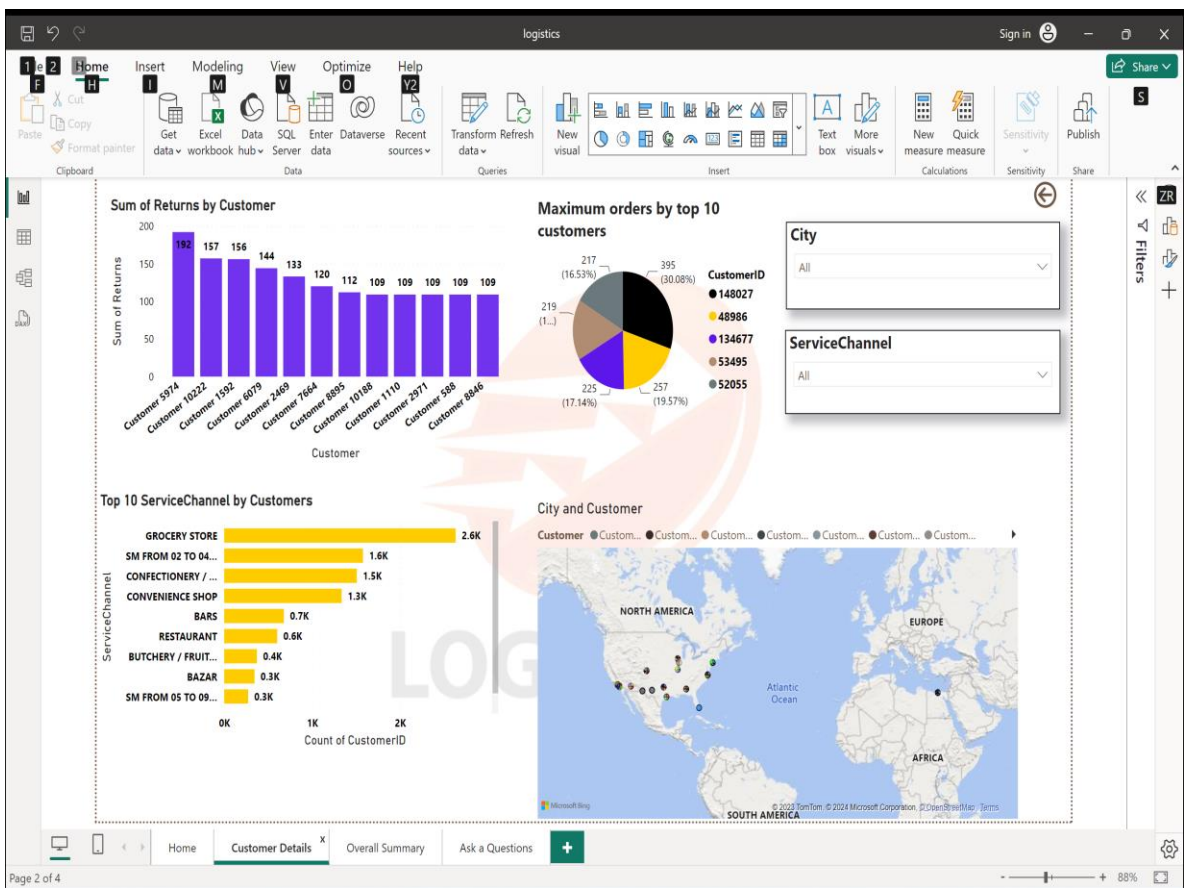
Dashboard

Overall Summary

Ask A Question

Conclusion

The logistics dashboard is created, featuring a list of Key Performance Indicators (KPIs). The report incorporates visualizations that present diverse metrics for in-depth analysis of the provided data.

THANK YOU

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