Logistics Dashboard

by

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Problem Statement:

The Convoy Logistics company wanted to make a dashboard on supply chain metric for measuring performance in the logistics industry. There were few specific features that the stakeholders wanted the data analyst to include in their dashboard, apart from that few more important metrics were also included.

The dataset included four excel sheets - Orders, Salespeople, Customers, and City. The data provided were raw in nature which has been cleaned and transformed to the required way. Using the transformed data, various KPIs and the advanced visualizations were generated.

About the data:

Data Set:

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

Link: https://drive.google.com/drive/folders/1lE3Z2NFN0zqXplKOfdrBPSHJvCaDO2RS?usp=sharing

Data Transformation:

The data consists of four excel sheets – Orders, Customers, Salesperson, City

The Orders table consists of data related to the placing of the order such as customer ID, Order ID, Order date, Scheduled delivery date, actual delivery date, etc. This excel sheet is moved into power BI and the data types are checked and altered wherever it was needed. Also, the Null values are eliminated from the columns. Similarly, the other excel sheets are also imported into Power BI and checked for the data types of the respective column and the Null values are eliminated.

Data Model:

In Power BI, the data models are checked for the relationships. There is one to many relationship between City query and the customer query with the common column being city ID. Similarly, there is a one-to-many relationship between Customer and the Orders query with the common column referred by Customer ID. Also, there exists another one-to-many relationship between orders and salesperson column with the column being Salesperson ID.

Insights gathered:

- 182K is the OTD and the total orders delivered were 242.27K

- 11.62K customers are in total .

- OTD is not met in the months of 2019 except for the month March, June, September and December.

- The city Victorville and Vista places highest orders in the range of 21K to 19K.

- The grocery store service channel receives maximum orders.

- The highest customer counts are for the service channels Grocery stores, checkouts, confectionary and Convenience shops.

- The year 2019 contributes to major order placed and delivered in the range of 60.34%

- The march and June are the months in the year 2019 that has high OTD.
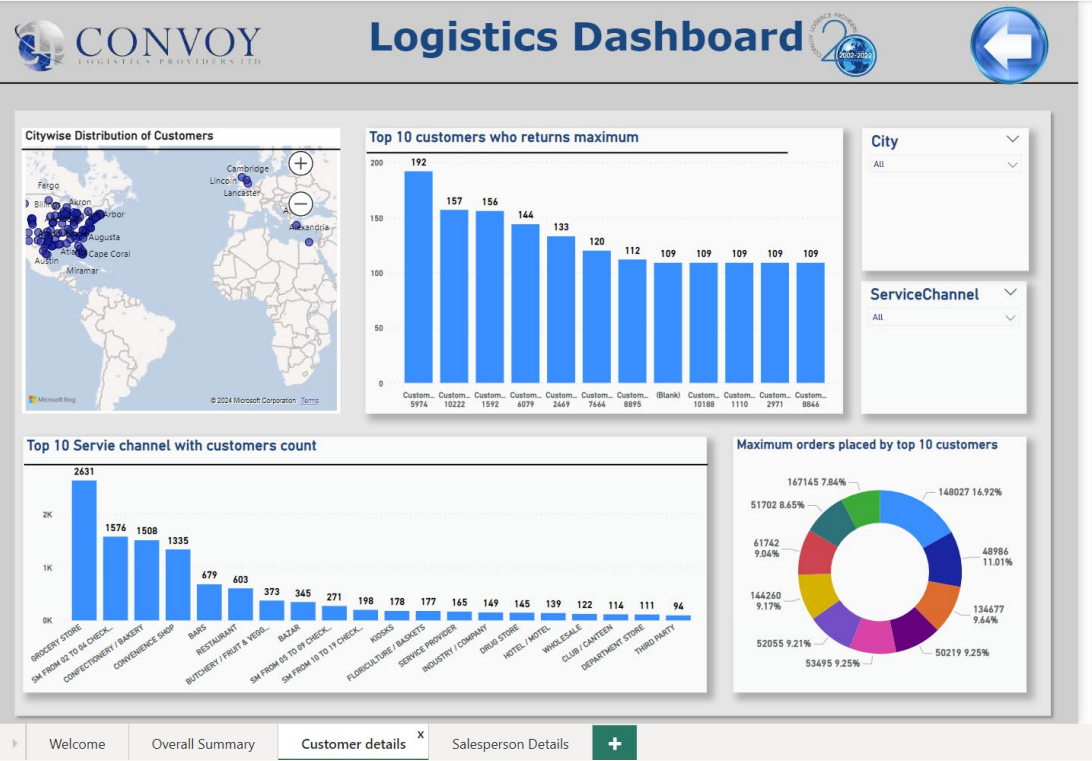
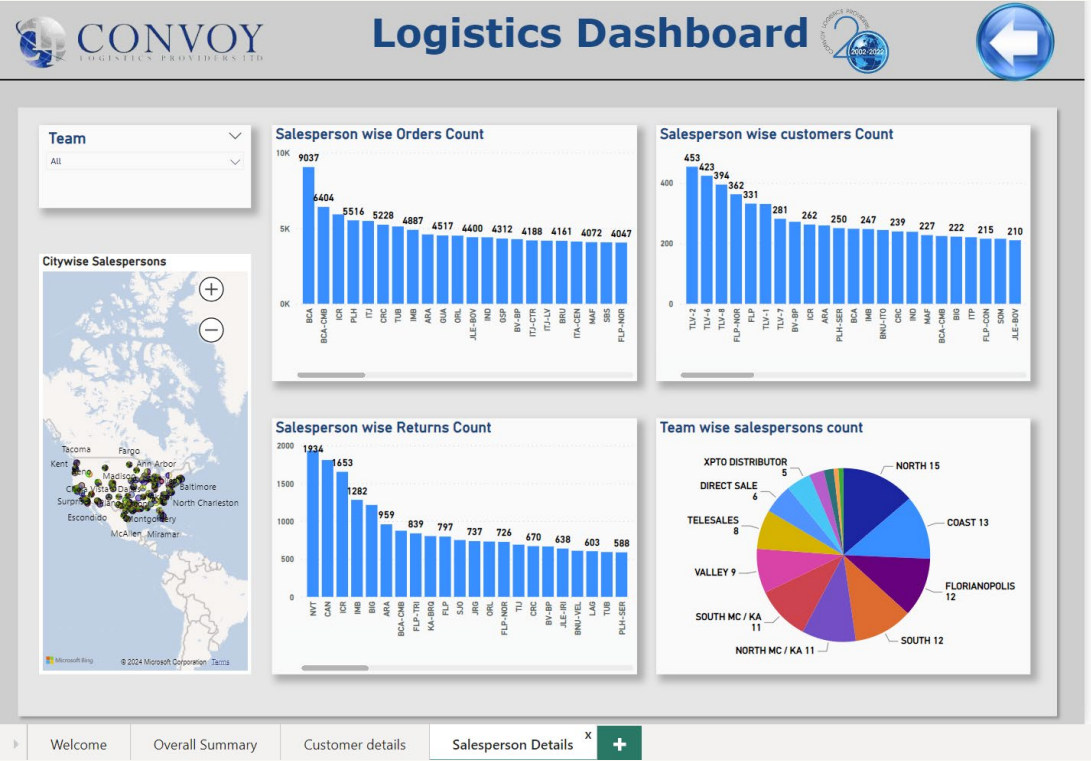# Dashboards:

Welcome Dashboard
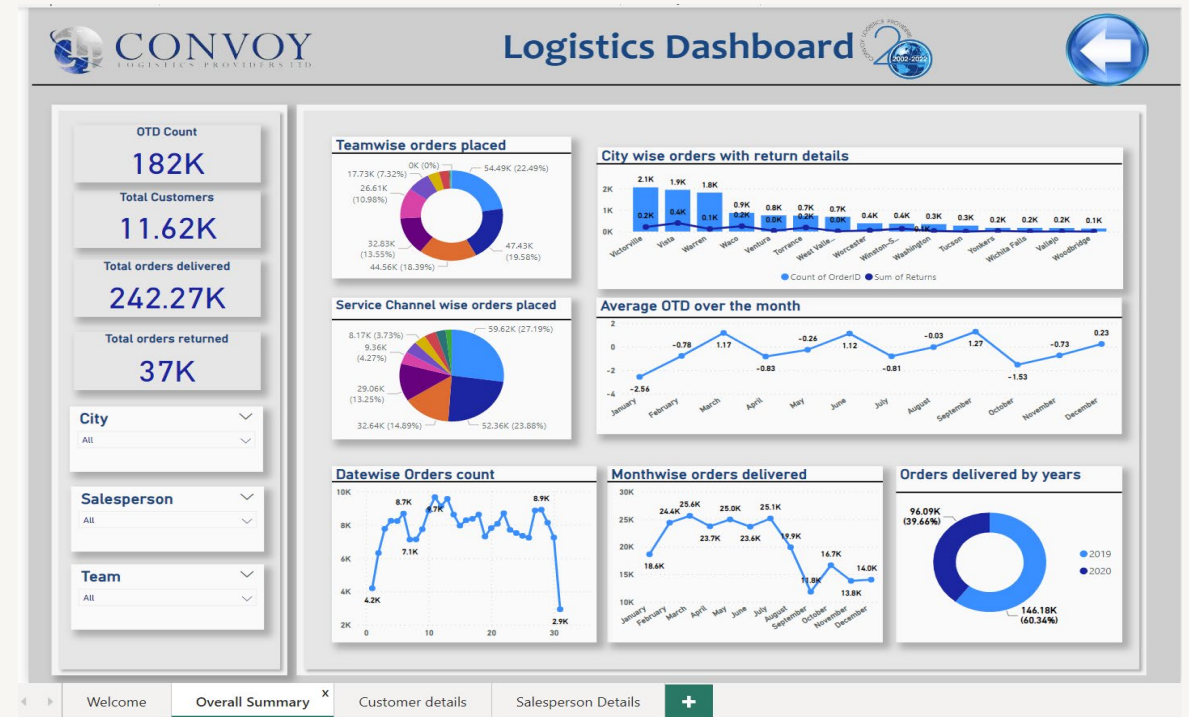
Overall Summary Dashboard

Dashboards:

Customer details Dashboard

Salesperson details Dashboard

Conclusion:

The logistic dashboard is generated and the KPIs are listed. The report also includes the visualization that displays various metrics to analyze the given data.