

User's Manual

Description of the Dataset Used

This visualization's data source, Kaggle open source, was used to obtain the information for our Tableau visualization. The following fields in the excel spreadsheet were utilized to build different interactive visualizations.

- Product Category: The dataset has three significant categories. Technology, furniture, and office supplies.
- Product subcategory: Each major product category includes several subcategories, for example, furniture has subcategories for tables, chairs, chair mats, bookcases, and office furniture. Similar to how each product category has its own respective subcategories.
- Region: An examination of the United States' central, eastern, western, and southern regions.
- State: Data on sales and profits for the entire state, broken down by product type and subcategory.
- Sales: The total quantity of purchases made by Walmart in a given year and category.
- Profit: In a given year, profit was made in each category.
- Order Date: Order date in the following format of DD-MM-YYYY
- Order Priority: It represents various order importance values, including "high," "low," "medium," and "critical."
- Product Container: It shows a variety of container sizes, such as jumbo drums, wrap bags, small packs, medium boxes, large boxes, and jumbo boxes.
- Shipping mode: Three delivery options are available to analyze the data: express air, regular air, and delivery truck.

The dataset can be loaded into tableau public by directly importing the data file as a “data source” by navigating to the Data -> New Data Source option.

By Default, the Dashboard displays the visualizations corresponding to all the product categories and subcategories for all the respective years in the data set that can be selected to view analysis of sales based on user requirements.

Interacting with the system:

Interactions can primarily be altered in multiple ways.

- By category: There are three main options available in the select category section of the dashboard: furniture, office supplies, and technology. Each category has a different analysis, and the interaction varies according to the category. The visuals can then be viewed and analyzed if the user hovers over and chooses the necessary category.

- By year: The dashboard's year section offers four different years to pick from. The depictions change depending on the year. Each interactive visualization allows the visitor to see the data and analysis for a particular year.

Summary for all categories: For the given year, this part gives a summary of all sales, earnings, total orders, and order volume. This is a summary of the revenue and earnings by year for every category combined.

Dashboard contains interactive options that the user can choose from based on their needs.

Data can be viewed using the metrics Sales, Profit, Order Quantity, and Shipping Cost.

The data can be displayed using a few more sub measures on the dashboard, including

- Date type: By choosing a date type from the dropdown in the Measures panel, the user can view the analysis based on month, year, quarter, week, and day.
- Order Priority: By selecting an option from the dropdown menu in the Measures pane, the user can choose to view the data as a whole or by specific priorities for the following categories: crucial, high, low, medium, not specified, and all.
- Product container: By selecting the option in the Measures panel for this measure, the user can select from a variety of container sizes, such as jumbo, wrap bags, small packs, medium boxes, big boxes, and jumbo drums.
- Region: The viewer has the option of seeing the center, east, south, west, or all regions. By selecting the choice in the Measures panel, the user is given information based on a regional sales study.
- Shipping Mode: There are three distinct shipping options. Users have a choice of three modes to look at the data depending on how it was delivered: delivery truck, express air, and regular air.
- State: The user can choose and examine the data for each state separately from the dropdown, for a few states at once, or for all the states at once, depending on the situation.

It is crucial to remember that specific quantitative fields, such "Order Date," have been used to extract various time periods, including month, year, quarter, week, and day. There has been thorough analysis and visualization of the Walmart Retail Dataset.