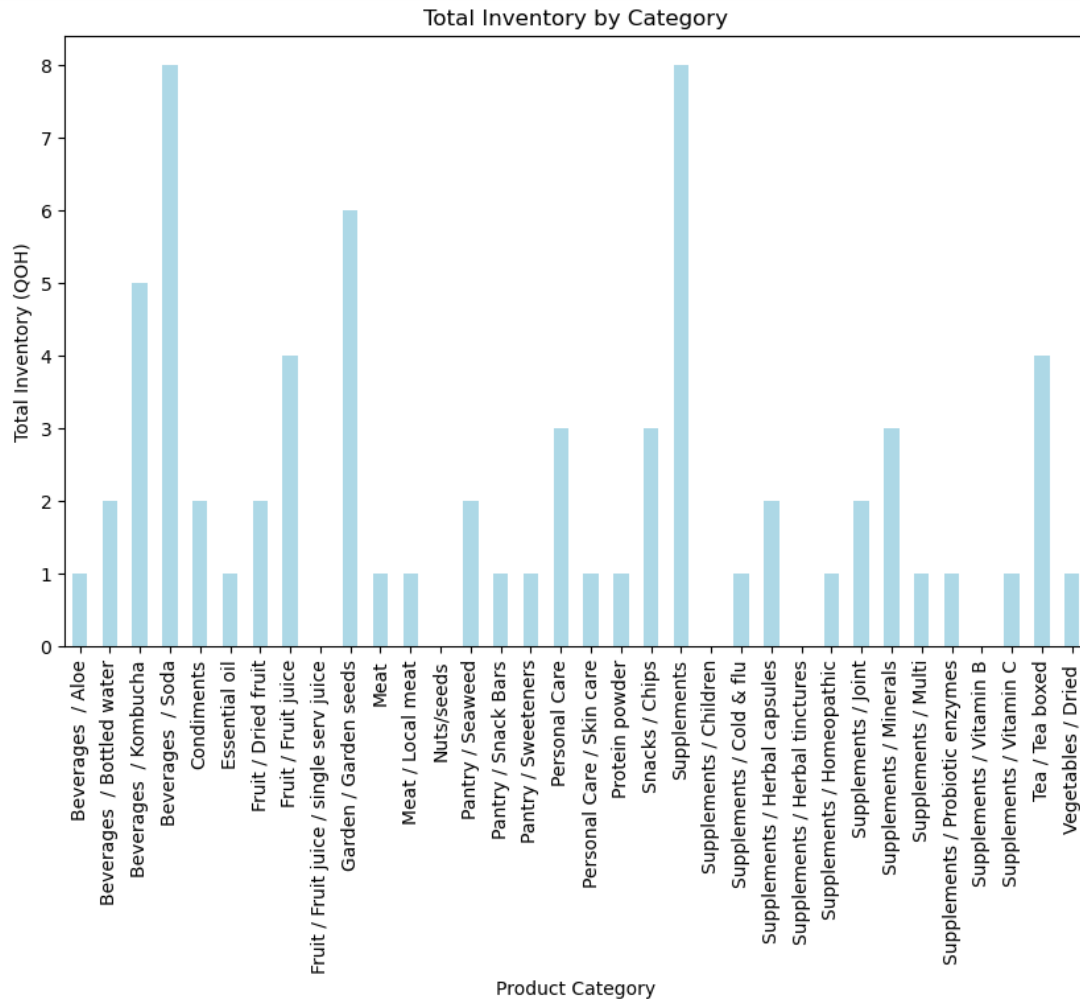


Milestone-1

In Milestone 1, our focus was on tidying up and getting the sales and inventory data ready for analysis, which is crucial for obtaining precise and informative outcomes. The sales data from January 1, 2024, to April 16, 2024, was reviewed for any missing values, with checks conducted to identify possible gaps. The dataset on inventory, showing items below reorder levels as of April 16, 2024, was examined for any missing information. Extraneous columns, like the 'Vendor #' column, were removed to simplify the analysis. This first round of cleaning enabled us to evaluate the data's quality and guarantee consistency among datasets.

After cleaning the data, we converted the 'Date' column in the sales data to a datetime format, which allowed us to group and examine sales patterns as time progressed. Sales were then organized by date to compute daily sums, serving as a foundation for observing patterns. For inventory data, items were categorized by type, enabling us to see how inventory is spread out among different product categories and determine which categories may have too much or too little stock. This summary and presentation provide a concise depiction of inventory quantities and transaction patterns, setting the stage for a deeper examination in the upcoming stage.





With the cleaning of both datasets and the standardization of key attributes, the project is in a good position for the next milestone, which will involve linking sales trends to inventory levels using interactive data tools. This will assist us in identifying trends, like items that are often understocked or overstocked, which aligns with the main objective of improving inventory control and decreasing instances of stock shortages and surplus inventory.