Dear Data Science Team Lead,

I have received the sample dataset from the data engineering team. I have been exploring and analyzing the provided data and I have found the following key insights:

* Fruit & vegetables are the most sold product categories.
* Customers are uniformly distributed over the different customer types.
* There are 4 payment methods and they are used at similar rates.
* Most of the sales involve lower-priced items, while fewer sales are made for higher-priced items, which is what we would expect for a typical grocery store.
* Some product categories have two price ranges - lower prices for budget-friendly options and higher prices for premium offerings.

To address Gala Groceries' supply chain challenges, We need to narrow down the problem statement to this question “Can we forecast product demand in order optimize inventory management and stocking strategies?”

To achieve that, my recommendations are as follows:

* Gather more data that represents more grocery stores and a longer period of time.
* Provide data for stock levels for the different products sold by Gala Groceries.
* Measure different storage circumstances like temperature and humidity to ensure the best storing conditions.
* Collect data for the different products like the estimated shelf life and storage conditions requirements to ensure proper storage conditions are met.

Best regards,

Nacer KROUDIR