Dear Data Science Team Leader,

On the given data set for Gala Groceries, I have performed handling of the data, cleaning and pre-processing and performed statistical summarisation (mean, medians and correlation matrices), exploratory visualisation and data visualisation (scatter plots, heat maps, bar charts and box plots).

From the above steps, I have derived multiple conclusions for the given data. Since the problem statement gives me a very vague idea of the problem to solve, I have multiple concurrent conclusions for the problem.

<What category of product sells more at what time of the day>

<What customer\_type brings what type and how much business>

[LINK](https://drive.google.com/file/d/1hlgvbMg5Txc16lhyajMfUva-tiGZrrjO/view?usp=sharing) to my findings.

However, there are problems with data set and problem statements. Dataset provided has only 1 week worth of data from one store which is too less. The problem statement is very broad, so we have no specific problem to solve.

I would recommend that we must ask the customer to give us a larger dataset with more features and narrow down the scope of the problem so we can deliver valuable insights to increase profits.

Best Regards,

Satwik Saurav