Name: Samuel Tan Joo Woon
Student ID: S2196123

Github Link:

Star Schema Diagram:
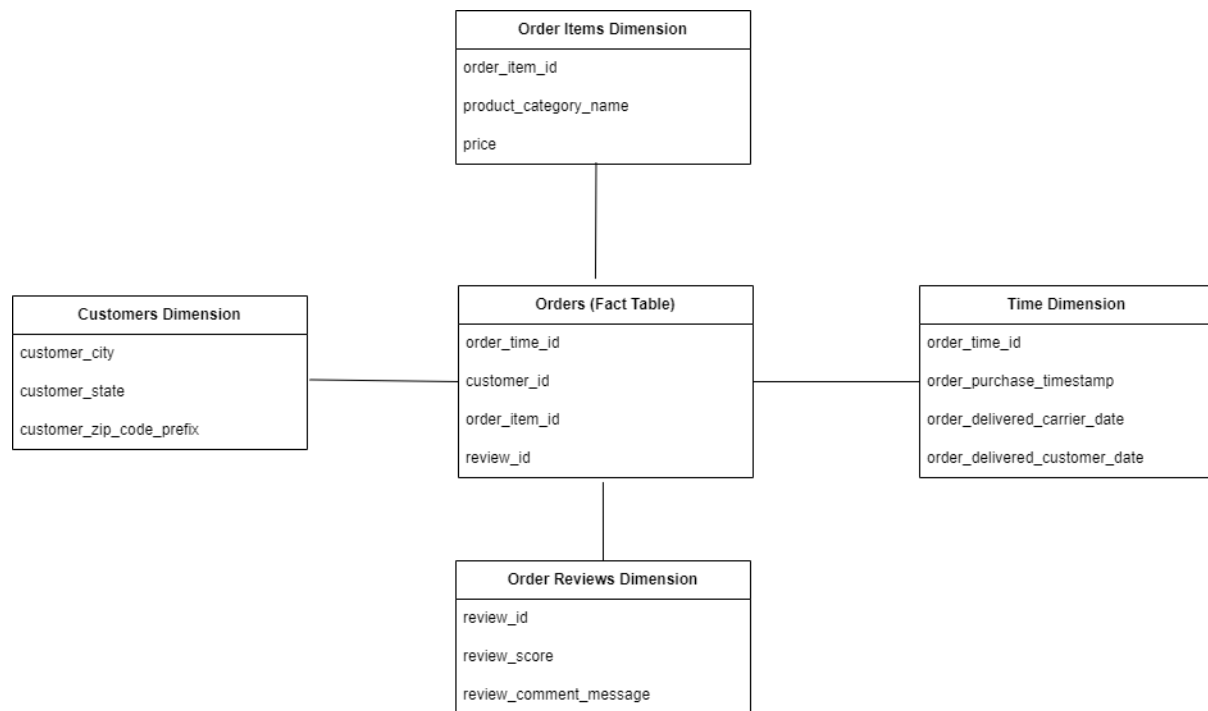
It is important to ensure that all attributes included in the star schema are relevant and useful for analysis and reporting because irrelevant attributes can detract from the usability and effectiveness of the data warehouse. Irrelevant or poorly defined attributes can lead to confusion and errors in data analysis, reporting, and decision-making.

Furthermore, including unnecessary attributes in the star schema can increase the complexity of the data warehouse and the time and effort required to maintain it. This can result in longer query times and slower performance, which can be frustrating for end-users and limit the usefulness of the data warehouse. Moreover, these unnecessary attributes will take up spaces in the data warehouse storage causing the owner paying unnecessary additional cost for the storage purpose. The cost become even more higher if the owner decides to host the data warehouse over cloud, where the cost is calculated based on the pay-per-use basis.

In conclusion, ensuring that all attributes included in the star schema are relevant and useful for analysis and reporting is essential for the effectiveness and usability of the data warehouse. This can prevent creating confusion and errors that leads to wrong decision-making, increase the unnecessary complexity of data warehouse to maintain, and paying unnecessary additional costs for the storage.