Below are some of the points taken under consideration while developing the code:

1. Discounts data is entered in excel sheet and from there the data is extracted. This will help to change discounts rates simply by making changes in file rather than code
2. Folder and file location for JSON and discount is taken from config file so that it can be used to mapped to other folders/file easily.
3. As per mail stats for only two status is required but keeping in mind that client might change the status frequently. Stats for which status needs to be calculated is taken from config file. Similar approach is used for bulk discount scheme and sales trend
4. Considering if logs are saved locally where code is running, last 10 run logs are saved and other logs are removed to save size. Number 10 can be changed using configuration
5. Parquet formatted data is stored under folder structure (timestamp) when code was run to avoid overlapping the data or to easily find out which data is generated by which run

Total Value of Cancelled Orders with segmented by year wise

Text

Description automatically generated

Total Value of On Hold Orders with segmented by year wise

Text

Description automatically generated

Count of Unique products per product line:

A picture containing text

Description automatically generated

Sales trend for Classic cars having status Shipped segmented by year and months

Text

Description automatically generated

Data frame with discount column:

A screenshot of a computer

Description automatically generated with medium confidence