Background

You have been given a dataset containing transaction data for a retail store. The data includes information on transaction ID, user ID, amount, transaction date, item description, inventory category, color, size, zone of the billing store, and store name.

Data is available year wise in the following location (to be updated)

Total number of rows 1.1 Million, split year wise, you are free to use all data or few data based on your system capability



Instructions

- 1. Load the data into a tool such as python, R or SQL.
- 2. Clean the data as necessary, handling any missing or invalid values.

Objective 0 (Data Exploration)

Explore the data and develop insights - Sales trends over time, Item sales trends and Customer behavior, any other matric you think is important.

Objective 1 (Customer Segmentation)

Your objective is to segment customers based on their purchasing behavior and develop effective marketing strategies for each segment. You will be evaluated on your ability to analyze customer behavior and develop effective marketing strategies for each segment.

Create a new column that groups customers based on their purchasing behavior. You can use any segmentation method of your choice

Explore the data and develop insights on each customer segment. It is up to you to decide what are the relevant business kpis

Develop marketing strategies for each segment. If you think that is relevant.

Objective 2 (Generalized Strategy Making)

Develop effective marketing strategies for each segment to achieve the following you are free to use any insights you have gained from earlier objectives:

- 1. How to increase repeat purchase of customers
- 2. How to revive customer who has not been shopping from quite a while
- 3. How to keep active customers engaged.
- 4. How to identify areas where we can make customers spend more on each visit.
- 5. If you can come up with more recommendations it will be an added bonus.

Deliverables

Your deliverables should include:

- 1. A report summarizing your findings and recommendations.
- 2. Marketing strategies for each segment which you think make sense.

Story building, articulation, connecting the dots etc will be 4. some of the aspects we will look for :)