Brainwave-Matrix Intern

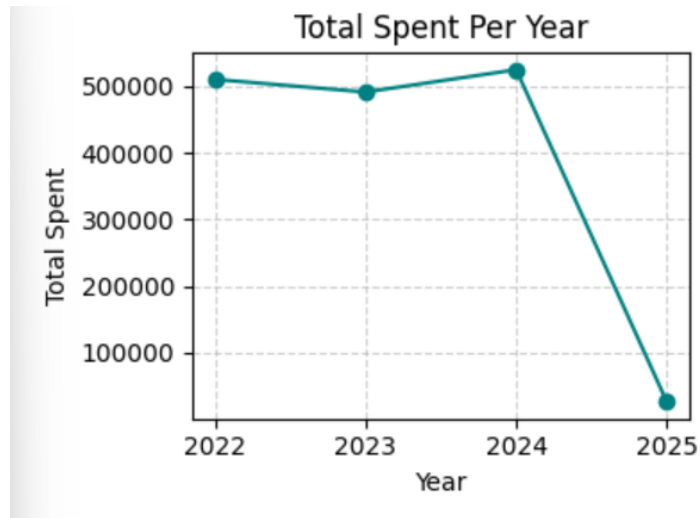## DATA SCIENCE/ DATA ANALYTICS

TASK 1: REPORT

Task Title: Data Analysis of a commercial store.
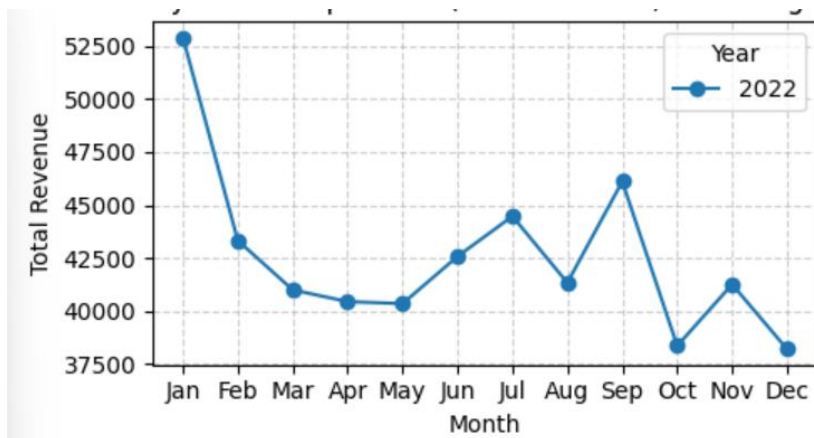
Report Summary:

1. Total number of unique categories: 8

2. Names of different categories:
   ['Patisserie' 'Milk Products' 'Butchers' 'Beverages' 'Food' 'Furniture'
   'Electric household essentials' 'Computers and electric accessories']

3. Total number of unique customers: 25

4. Unique Years: 2022,2023,2024,2025

5. Total revenue per year:

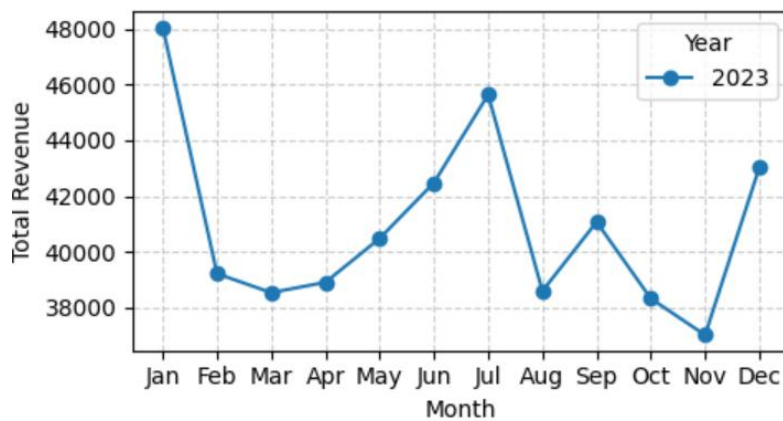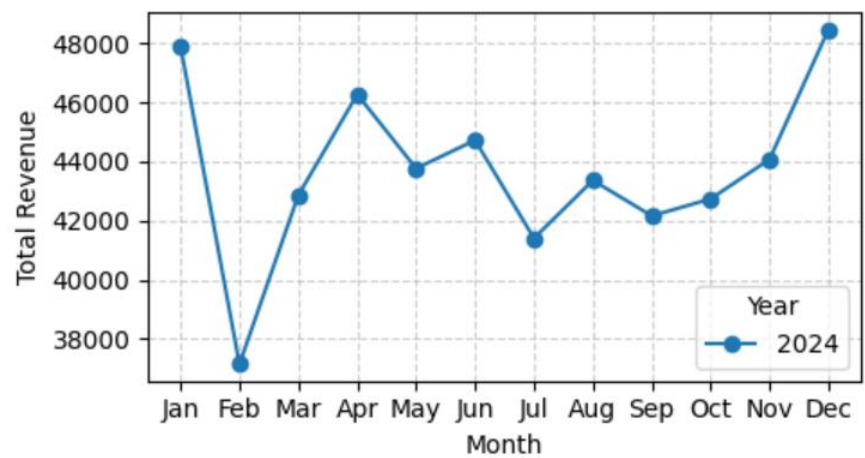| Year	Total Spent
2022	510329.5
2023	491312.0
2024	524881.0
2025	25548.5

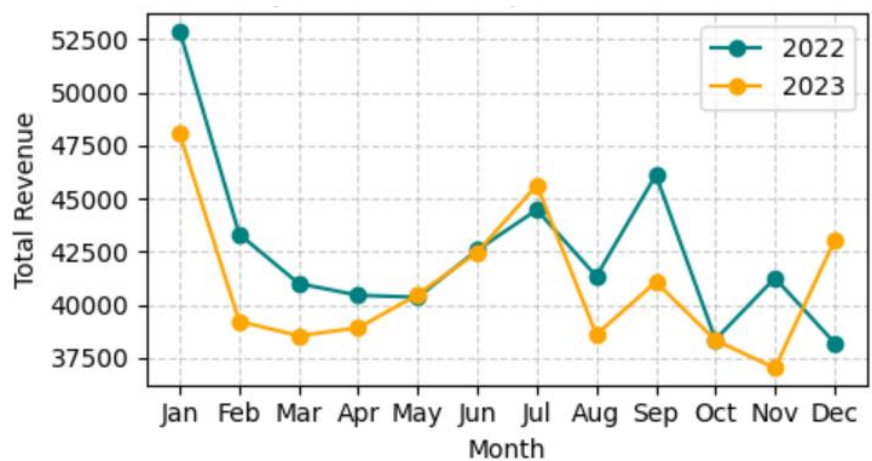6. Total Spent Per Year:

7. Monthly revenue for year:2022

8. Monthly revenue for year:2023

9. Monthly revenue for year:2024

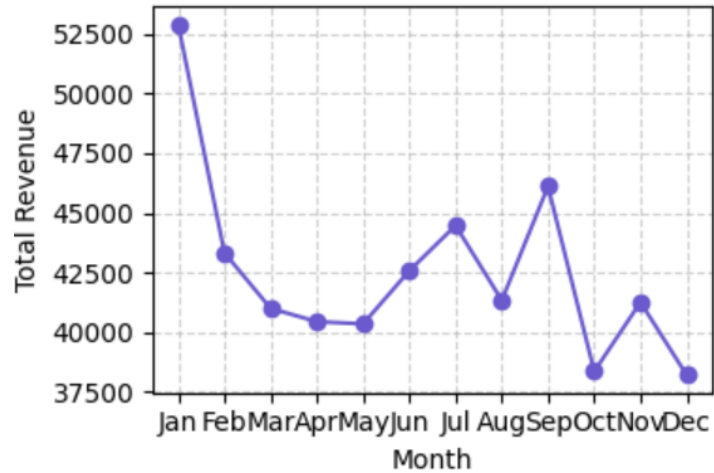10. Monthly revenue comparison 2022 vs 2023:
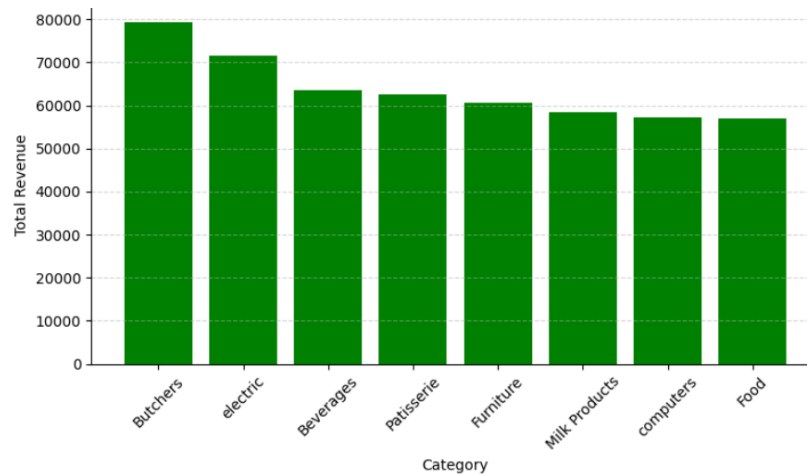

11. Yearly growth or decline:

Year	Total Revenue	% Change from Previous Year
2022	510329.5	NaN
2023	491312.0	-3.726514
2024	524881.0	6.832522
2025	25548.5	-95.132516

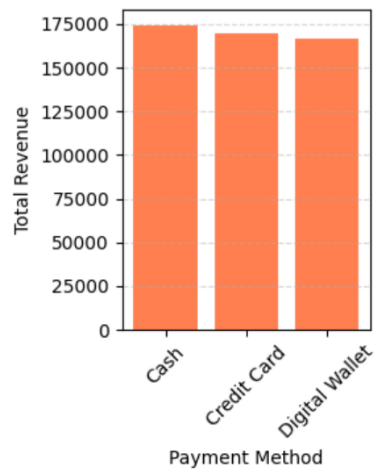12. EXCLUSIVE ANALYSIS: YEAR **2022:**
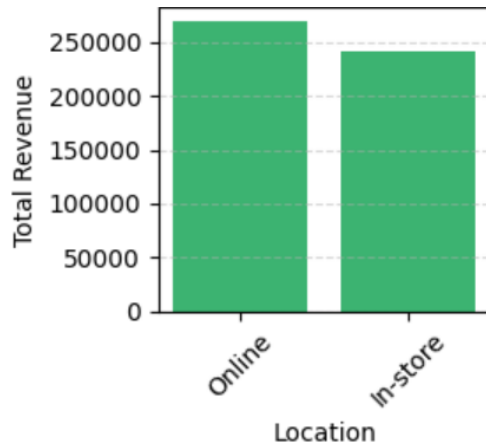
1. Monthly revenues for 2022:

2. Category-wise revenue for 2022:

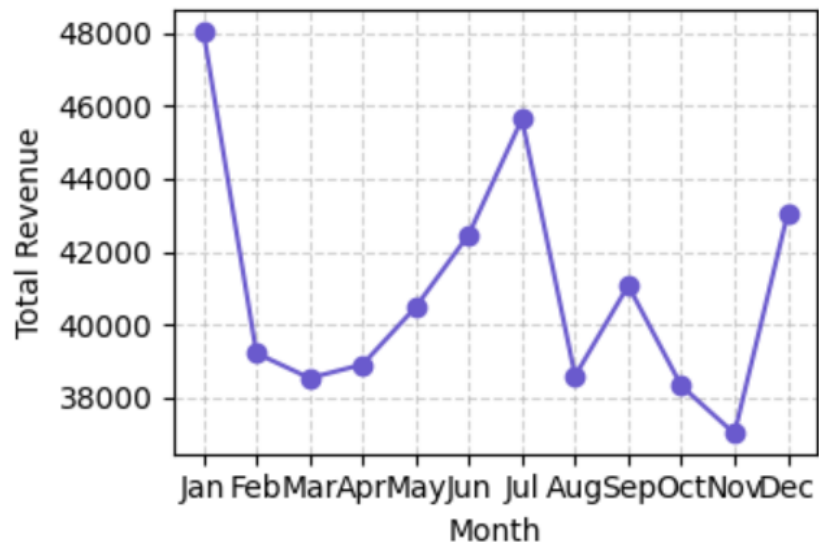3. Revenue by payment method for 2022:
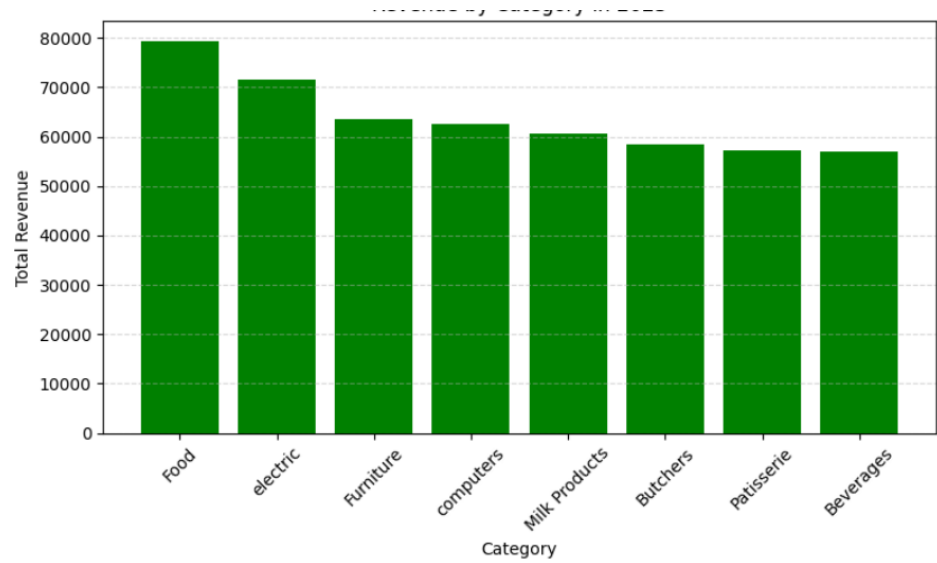
4. Revenue by Location in 2022:

5. Total number of transactions in 2022: **4134**
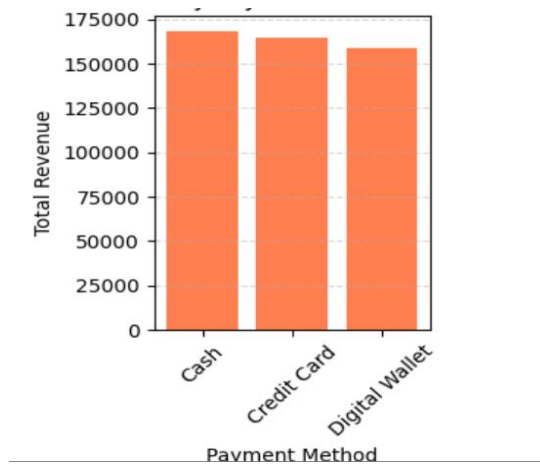
13. Exclusive analysis of year **2022:**
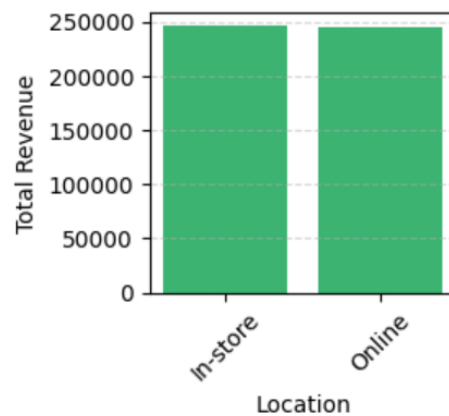
1. Monthly revenue for 2023:

2. Category-wise revenue for 2023:

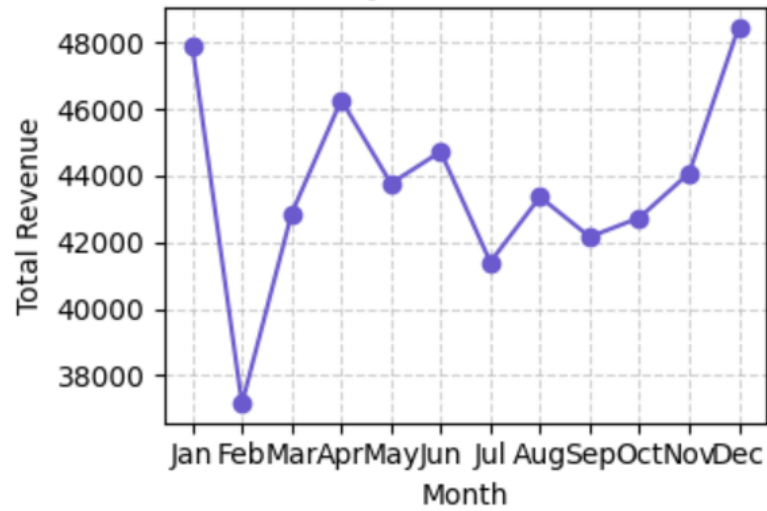3. Revenue by payment method in 2023:

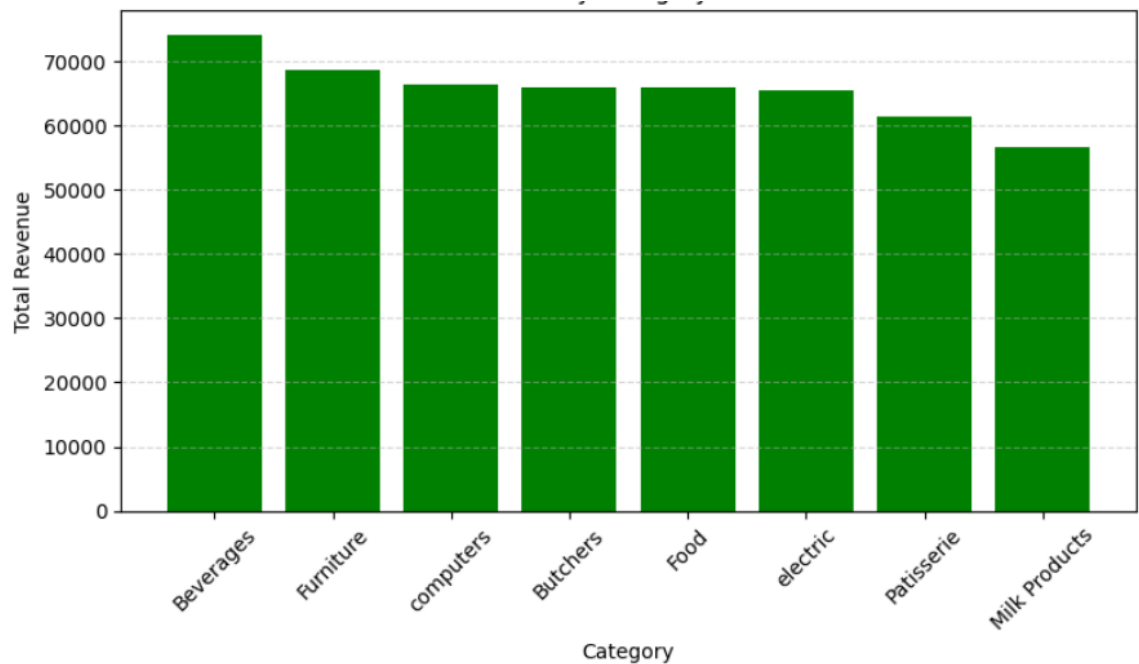4. Revenue by Location in 2023:

5. Total number of transactions in 2023: **3987**

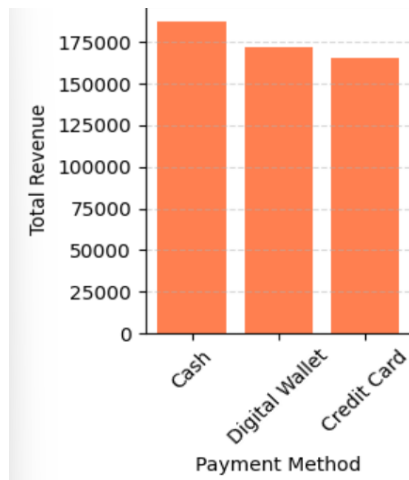14. Exclusive analysis of year: **2024**
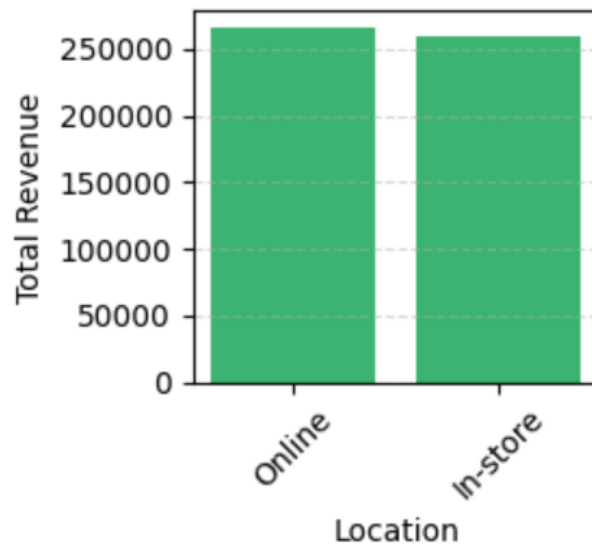
1. Monthly revenue for 2024:

2. Category-wise revenue for 2024:

3. Revenue by payment method 2024

4. Revenue by location in 2024:

5. Total number of transactions of 2024: **4241**