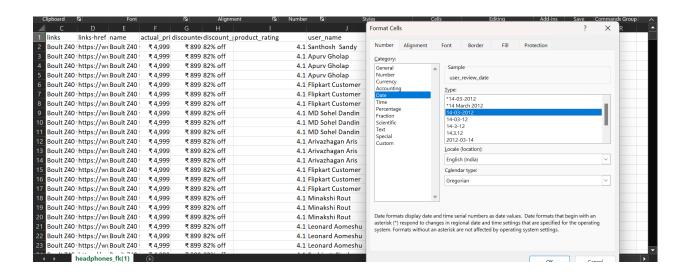
Team Genesis

Round_2: Envision

Data Cleaning and Solution Planning

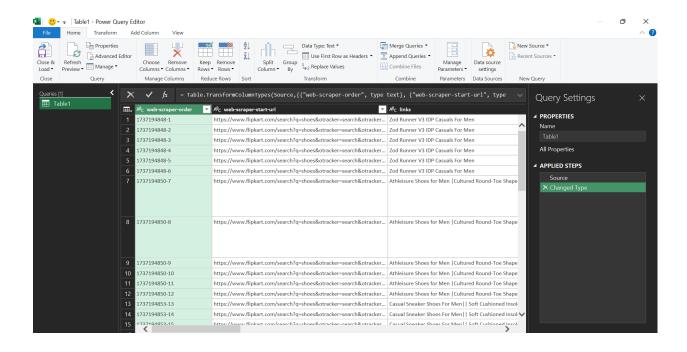
Step-1: Data Cleaning

1.1: Date Formatting:

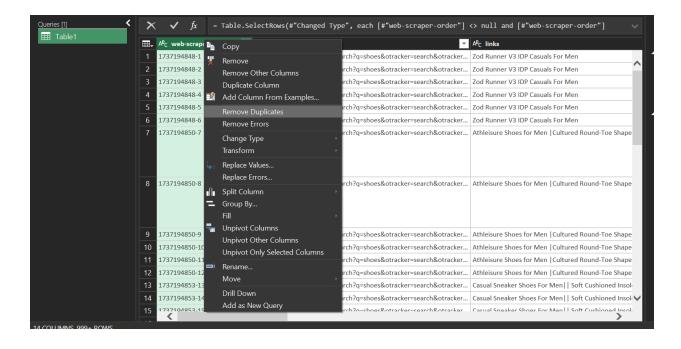


Used Power Query Model to Clean and Process data:

Team Genesis 1



Removing duplicates:



Data Preprocessing and Visualization:

Team Genesis 2

https://github.com/Meenalsh72/Envision/blob/main/envision.ipynb

data processing and visualization are mentioned in the ipynb notebook above

Solution Overview:

Customer Segmentation for Marketing Analysis

This project aims to segment customers based on purchasing behavior to enhance marketing strategies. By identifying key customer groups, businesses can personalize campaigns, improve retention, and maximize ROI.

Why RFM Analysis?

RFM (Recency, Frequency, Monetary) analysis evaluates customers on:

- **Recency**: How recently they purchased.
- **Frequency**: How often they purchase.
- Monetary: How much they spend.

RFM provides a clear framework for identifying high-value customers, loyal buyers, and churn risks, forming the foundation for actionable segmentation.

Why DBSCAN?

DBSCAN is ideal for clustering RFM data because:

- It handles outliers (e.g., sporadic buyers).
- Captures irregularly shaped clusters that match real-world customer behavior.
- Requires no predefined number of clusters, offering flexibility.

Team Genesis 3