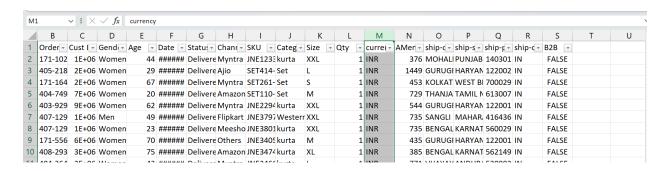
# Clothing Store Data Analysis - MS Excel

## **Data Cleaning**

- Checked for null values and duplicates in all columns.
- Standardized the Gender column by replacing 'M' with 'Men' and 'W' with 'Women'.
- Corrected the Quantity field by replacing 'One' with '1' and 'Two' with '2'.
- Removed the Currency column as it only contained 'INR', which is redundant for this analysis.

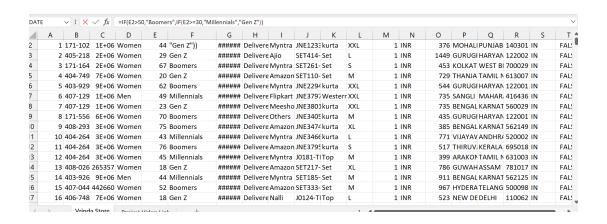


## **Data Processing**

#### **Creating Age Brackets:**

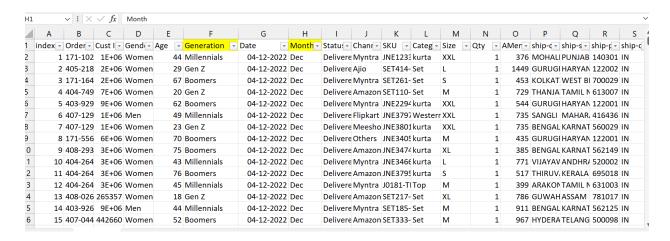
 Added a new column for Age Brackets using the formula. We use the IF formula to create age groups according to three generations.

```
=IF(E2>50, "Boomers", IF(E2>=30, "Millennials", "Gen Z"))
```



## **Extracting Month Names:**

 Added a new column for Month by extracting the month name from the date field using. =TEXT(G2, "mmm")



## **Data Analysis**

- Pivot Table for Monthly Sales vs. Orders:

Data: Sum of Amount and Count of OrderID against Month.

#### **Combo Chart:**

- Primary Y-Axis: Sum of Amount (formatted in millions).
- Secondary Y-Axis: Count of OrderID.

## - Pie Chart for Sales by Gender:

Data: Sum of Amount split by Gender.

#### - Pie Chart for Order Status:

**Data:** Count of OrderID split by Order Status.

#### - Column Chart for Top 5 States by Sales:

Data: Sum of Amount by State.

**Sort:** Sort Amount from highest to lowest.

Filter: Top 5 states.

## - Bar Chart for Sales by Generations:

**Data:** Sum of Amount split by Generations (Millennials, Gen Z and Boomers).

#### - Column Chart for Sales by Channels:

**Data:** Sum of Amount split by different sellers or channels (Amazon, Myntra, Flipkart etc).

## - Slicers for Filtering Data:

**Slicers:** Add slicers for Month, Category, and Channels to filter and view data accordingly.

## **Instructions to Implement in Excel:**

## 1. Pivot Table for Monthly Sales vs Orders:

- Insert Pivot Table:
  - 1. Select your data range.
  - 2. Insert > PivotTable.
  - 3. Drag 'Month' to Rows, 'Amount' to Values (set to Sum), and 'OrderID' to Values (set to Count).

#### Create Combo Chart:

- 1. Select Pivot Table data.
- 2. Insert > Combo Chart.
- 3. Set Sum of Amount to Primary Y-Axis and Count of OrderID to Secondary Y-Axis.
- 4. Format Sum of Amount to display in millions (0.0,,"M").

#### 2. Pie Chart for Sales by Gender:

- Insert Pivot Table:
  - 1. Drag 'Gender' to Rows and 'Amount' to Values.
- o Insert Pie Chart:
  - 1. Select Pivot Table data.
  - 2. Insert > Pie Chart.

#### 3. Pie Chart for Order Status:

- Insert Pivot Table:
  - 1. Drag 'Order Status' to Rows and 'OrderID' to Values (set to Count).
- Insert Pie Chart:
  - 1. Select Pivot Table data.
  - 2. Insert > Pie Chart.

## 4. Column Chart for Top 5 States by Sales:

- Insert Pivot Table:
  - 1. Drag 'State' to Rows and 'Amount' to Values.
  - 2. Sort Amount from highest to lowest.
  - 3. Filter to show the Top 5 states.
- Insert Column Chart:
  - 1. Select Pivot Table data.
  - 2. Insert > Column Chart.

## 5. Bar Chart for Sales by Generations:

- Insert Pivot Table:
  - 1. Drag 'Generation' to Rows and 'Amount' to Values.
- Insert Bar Chart:
  - 1. Select Pivot Table data.
  - 2. Insert > Bar Chart.

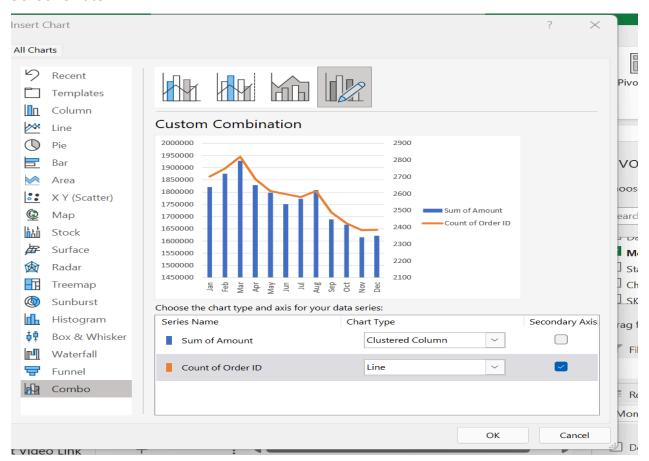
## 6. Column Chart for Sales by Channels:

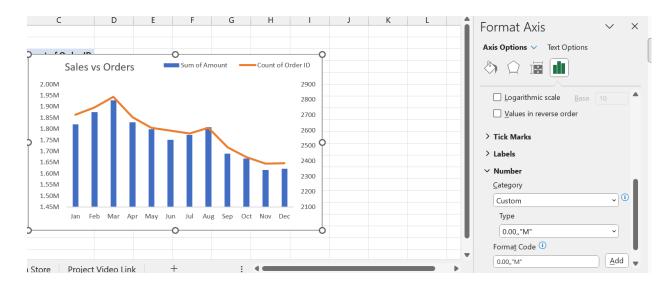
- Insert Pivot Table:
  - 1. Drag 'Channel' to Rows and 'Amount' to Values.
- Insert Column Chart:
  - 1. Select Pivot Table data.
  - 2. Insert > Column Chart.

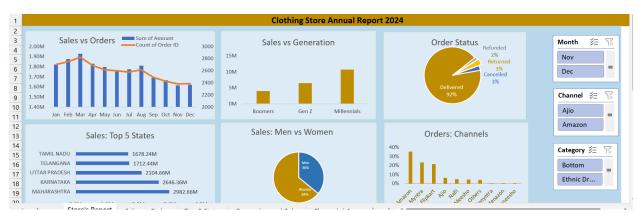
## 7. Add Slicers:

- Insert Slicers:
  - 1. Select Pivot Table.
  - 2. Insert > Slicer.
  - 3. Add slicers for 'Month', 'Category', and 'Channels'.

#### **Screenshots:**







## Insights

#### - Peak Sales Months:

Our highest sales volumes are observed in the months of March and August, which also correspond with the highest number of orders placed during these periods.

## - Customer Demographics:

Millennials, particularly those aged between 30 and 50 years, represent our highest paying customer segment.

## - Geographical Performance:

In the southern region of India, including Maharashtra, Maharashtra and Karnataka emerge as top consumers. Meanwhile, Uttar Pradesh leads in performance in the northern region.

#### Gender-based Spending:

Women demonstrate a significantly higher propensity to spend in the clothing industry, accounting for approximately 64% of sales, compared to Men who contribute around 36%.

#### Preferred Shopping Platforms:

Amazon, Myntra, and Flipkart are the top preferred online platforms for purchasing clothes among our customers.

These insights highlight key trends and patterns in our sales data, providing a clearer understanding of our customer base and their purchasing behaviors.

## Recommendations

By implementing these recommendations, the business can effectively leverage the insights to drive higher sales, improve customer engagement, and enhance overall profitability.

Based on the insights provided, here are several targeted recommendations to enhance sales:

#### Leverage Peak Sales Months

**Promotional Campaigns:** Implement targeted marketing and promotional campaigns in the months leading up to March and August to maximize sales during these peak periods.

**Stock Management:** Ensure adequate inventory levels to meet the increased demand in these months to avoid stockouts and capitalize on the sales surge.

#### Target Millennials Effectively

**Tailored Marketing:** Develop marketing strategies specifically aimed at Millennials (ages 30-50). Utilize platforms and channels that are popular with this age group, such as social media (Instagram, Facebook) and influencer partnerships.

**Product Selection:** Curate and promote product lines that appeal to Millennial tastes and preferences, such as trendy, sustainable, and affordable clothing options.

#### Geographical Focus

**Regional Promotions:** Design region-specific promotions and advertisements for Maharashtra, Karnataka, and Uttar Pradesh to reinforce and build on the existing strong customer base in these areas.

#### Engage Female Shoppers

**Exclusive Collections:** Introduce exclusive collections and fashion lines targeted at women, considering their higher spending propensity.

**Women-centric Campaigns:** Run marketing campaigns highlighting women's clothing, accessories, and fashion trends. Collaborate with female influencers and fashion bloggers to reach a broader audience.

#### Optimize Online Sales Channels

**Enhance Online Presence:** Strengthen the presence on Amazon, Myntra, and Flipkart by ensuring top visibility, participating in special sales events, and optimizing product listings for better discoverability.

**Customer Reviews and Ratings:** Encourage satisfied customers to leave positive reviews and high ratings on these platforms to build trust and attract more buyers.

**Exclusive Online Deals:** Offer exclusive deals, discounts, and early access to sales on these preferred platforms to drive more traffic and conversions.