

## **Data Cleaning and Analysis Process**

### **Data Cleaning**

The dataset underwent a detailed cleaning process to ensure accuracy and completeness. Below were the steps taken;

1. Duplicate Removal:
  - There were no duplicate values.
2. Handling Errors and Missing Data:
  - There were no blank cells.
  - I performed some data cleaning on the pizza\_size column by changing the abbreviations to full words. I changed; S to Regular, M to Medium, L to Large, XL to X-Large and XXL to XX-Large.
3. Creating an Additional Column:

The charts required showing the orders per day, hence I created a new column: 'order\_day' by using the text function to extract the days of the week from the order\_date column.

  - Order\_day; Extracted using the formula =TEXT([@[order\_date]],"dddd")

### **Data Analysis**

Pivot tables were created to calculate the key point indicators and support visualization. The KPIs were:

1. **Total Revenue**
  - The sum of prices of all pizza orders.
2. **Average Order Value**
  - The average amount spent per order i.e total revenue/total orders.
3. **Total pizzas sold**
  - Sum of quantity of pizza sold
4. **Total orders**
  - Number of orders placed.
5. **Average pizzas per order**
  - Total no. of pizzas/total no. of orders

### **Dashboard Creation**

The cleaned and analysed data was used to create an interactive dashboard with the following features:

- **KPIs:** visualized using bar charts, line charts, pie charts and donut charts.
- **Timeline functionality:** This was created to allow filtering by months/quarters of the year for a tailored view of the data.