

# Problem Statement

## KPI'S Requirement

We need to analyze key indicators for our pizza sales data to gain insights into our business performance. Specifically, we want to calculate the following metrics:

- Total Revenue: The sum of the total price of all pizza orders.
- Average Order Value: The average amount spent per order, calculated by dividing the total revenue by the total number of orders.
- Total Pizzas Sold: The sum of the quantities of all pizzas sold.
- Total Orders: The total number of orders placed.
- Average Pizzas Per Order: The average number of pizzas sold per order, calculated by dividing the total number of pizzas sold by the total number of orders.

## Charts Requirement

We would like to visualize various aspects of our pizza sales data to gain insights and understand key trends. We have identified the following requirements for creating charts:

- Daily Trend for total orders:
  - Create a bar chart that displays the daily trend of total orders over a specific time period. These charts will help us identify any patterns or fluctuations in order volumes on a daily basis.
- Hourly Trend for Total Orders:
  - Create a line chart that illustrates the hourly trend of total orders throughout the day. This chart will allow us to identify peak hours or periods of high order activity.
- Percentage of Sales by Pizza Category
  - Create a pie chart that shows that distribution of sales across different pizza categories. This chart will provide insights into the popularity of various pizza categories and their contribution to overall sales.
- Percentage of sales by Pizza Size:
  - Generate a pie chart that represents the percentage of sales attributed to different pizza sizes. This chart will help us understand customer preferences for pizza sizes and their impact on sales.
- Total Pizzas Sold by Pizza Category
  - Create a funnel chart that presents the total number of pizzas sold for each pizza category. This chart will allow us to compare the sales performance of different pizza categories.
- Top 5 Best sellers by Total Pizzas Sold:
  - Create a bar chart highlighting the top 5 best -selling pizzas based on the total number of pizzas sold. This chart will help us identify the most popular pizza options.
- Bottom 5 Worst Sellers by Total Pizza Sold:
  - Create a bar chart showcasing the bottom 5 worst-selling pizzas based on the total number of pizzas sold. This chart will enable us to identify underperforming or less popular pizza options.