PIZZA SALES (SQL Report)

Problem Statement:

KPI's requirement:

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

- 1. **Total Revenue:** The sum of the total price of all pizza orders.
- 2. **Average Order value:** The average amount spent per order, calculated by dividing the total revenue by the total number of orders.
- 3. **Total Pizzas Sold:** The sum of the quantities of all pizzas sold.
- 4. **Total Orders:** The total number of orders placed.
- 5. **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 will visualize various aspects of our pizza sales data to gain insights and understand key trends. We have identified the following requirements for creating charts:

1. Daily Trend for total orders:

Create a 'bar chart' that displays the daily trend of total orders over a specific time period. This chart will help us identify any patterns or fluctuations in order volumes on a daily basis.

2. Hourly trend for total Orders:

Create a 'line chart' that illustrates the hourly trend of total orders thoroughly the day. This chart will allow us to identify peak hours or periods of high order activity.

3. Percentage of Sales by Pizza Category:

Create a 'pie chart' the shows the 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.

4. 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.

5. Total Pizza sold by Pizza Category:

Create a 'funnel chart' that represents the total number of pizzas sold for each pizza category. This chart will allow us to compare the sales performance of different pizza categories.

6. Top 5 Best Sellers by Total Pizza sold:

Create a 'bar chart' highlighting the top 5 best-selling pizzas on the total number of pizzas sold. This chart will help us identify the most popular pizza options.

7. Bottom 5 Worst sellers by total pizzas 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.

Software used:

MS Excel

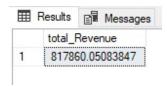
Microsoft SQL Server Management Studio

Pizza sales SQL queries:

A. KPI's:

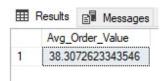
1. Total Revenue:

```
CREATE DATABASE PizzaDB
select * from pizza_sales
Select SUM(total_price) AS total_Revenue from pizza_sales
```



2. Average Order Value:

select sum(total_price) / count(distinct order_id) as Avg_Order_Value from pizza_sales



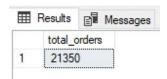
3. Total Pizzas Sold:

select sum(quantity) AS total_Pizza_Sold from pizza_sales



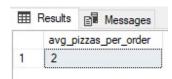
4. Total Orders:

select count(distinct order_id) AS total_orders from pizza_sales



5. Average Pizzas per Order:

select sum(quantity) / count(distinct order_id) as avg_pizzas_per_order from pizza_sales



B. Charts Requirement:

1. Daily Trend for total orders:

select DATENAME(DW, order_date) as order_day, COUNT (distinct order_id) as Total_orders from pizza_sales group by DATENAME (DW, order_date)



2. Hourly trend for total Orders:

```
select DATEPART(HOUR, order_time) as order_hours, COUNT (distinct order_id) as Total_orders from pizza_sales group by DATEPART(HOUR, order_time)
ORDER BY DATEPART(HOUR, order_time)
```



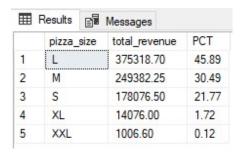
3. Percentage of Sales by Pizza Category:

```
SELECT pizza_category, CAST(SUM(total_price) AS DECIMAL(10,2)) as total_revenue, CAST(SUM(total_price) * 100 / (SELECT SUM(total_price) from pizza_sales) AS DECIMAL(10,2)) AS PCT # PCT is percentage of total FROM pizza_sales
GROUP BY pizza_category
```

	pizza_category	total_revenue	PCT
1	Chicken	195919.50	23.96
2	Supreme	208197.00	25.46
3	Classic	220053.10	26.91
4	Veggie	193690.45	23.68

4. Percentage of Sales by Pizza Size:

SELECT pizza_size, CAST(SUM(total_price) AS DECIMAL(10,2)) as total_revenue, CAST(SUM(total_price) * 100 / (SELECT SUM(total_price) from pizza_sales) AS DECIMAL(10,2)) AS PCT FROM pizza_sales GROUP BY pizza_size ORDER BY pizza_size



5. Total Pizza sold by Pizza Category:

select pizza_category, SUM(quantity) as Total_Pizzas_Sold from pizza_sales
Group by pizza_category



6. Top 5 Best Sellers by Total Pizza sold:

select TOP 5 pizza_name, sum(quantity) as Total_pizzas_sold from pizza_sales
GROUP BY pizza_name
ORDER BY sum (quantity) DESC



7. Bottom 5 Worst sellers by total pizzas sold:

select TOP 5 pizza_name, sum(quantity) as Total_pizzas_sold from pizza_sales
GROUP BY pizza_name
ORDER BY sum (quantity) ASC

