Project Brief: Pizza Sales Performance Analysis

Objective:

The goal is to analyze this data to gain insights into the effectiveness of pizza sales, optimize best performing pizza category and size to improve future market strategies.

QUESTIONS TO ANSWER

- 1. What is the total revenue generated from Pizza sales?
- 2. What is the average order value?
- 3. What is the total quantity of pizza sold?
- 4. What is the total amount of orders?
- 5. What is the average pizza price per order?
- 6. How is the performance on daily and monthly basis?
- 7. What is the Percentage of sales by pizza category?
- 8. What is the Percentage of sales by pizza size?
- 9. Compute the Quantity sold by each pizzas category?
- 10. Identify Top performing pizzas that generated the most in revenue?
- 11. Identify the least performing pizzas that generated the least revenue?
- 12. Find the pizza with the second highest quantity sold

Data Cleaning & Processing

What is the total revenue generated from Pizza sales? <u>SQL QUERY</u>

```
SELECT SUM(quantity * Unit_price) AS Revenue --Total Revenue
FROM pizza_sales;
```

 What is the average order value? <u>SQL QUERY</u>

```
SELECT SUM(total_price) / COUNT(DISTINCT(order_id)) AS AvgOrderValue -- AO-Value
FROM pizza_sales;
```

What is the total quantity of pizza sold? SQL QUERY

```
SELECT SUM(quantity) AS TotalPizzaOrder -- Total Pizza sold
FROM pizza_sales;
```

4. What is the total amount of orders? <u>SQL QUERY</u>

```
SELECT COUNT(DISTINCT(order_id)) AS TotalOrders -- Total Orders
FROM pizza sales;
```

5. What is the average pizza price per order? <u>SQL QUERY</u>

```
SELECT CAST(SUM(quantity) AS DECIMAL (10,2)) / COUNT(DISTINCT(order_id)) AS APPO --
AveragePizzasPerOrder
FROM pizza_sales;
```

6. How is the performance on daily and monthly basis? SQL QUERY

```
SELECT DATENAME(DW, order_date) AS OrderDay, COUNT(order_id) AS DayTotalOrders
FROM pizza_sales
GROUP BY DATENAME(DW, order_date); -- Daily trend total orders
```

```
SELECT DATENAME (MONTH, order date) AS OrderMonth, SUM(quantity * unit price) AS
MntRevenue
FROM pizza sales
GROUP BY DATENAME(MONTH, order_date);
                                               -- Monthly trend total orders
7.
      What is the Percentage of sales by pizza category?
      SQL QUERY
SELECT pizza_category, CAST(SUM(total_price) AS DECIMAL (10,2)) AS Revenue,
CAST(SUM(total_price) * 100.0 / (SELECT SUM(total_price) FROM pizza_sales)
AS DECIMAL (10,2)) AS 'Percentage'
FROM pizza sales
GROUP BY pizza_category; --% of sales by Pizza Category
8.
      What is the Percentage of sales by pizza size?
      SQL QUERY
SELECT pizza_size, CAST(SUM(total_price) AS DECIMAL (10,2)) AS Rev,
CAST(SUM(total_price) * 100.0 / (SELECT SUM(total_price) FROM pizza_sales)
AS DECIMAL(10,2)) AS 'Percentage'
FROM pizza_sales
GROUP BY pizza_size --% of sales by pizza size
      Compute the Quantity sold by each pizzas category?
9.
      SQL QUERY
SELECT SUM(quantity) AS PizzaSoldCategory, pizza category -- Total pizzas sold by
pizzas category
FROM pizza sales
GROUP BY pizza category;
10.
      Top performing pizzas that generated the most in revenue?
SQL QUERY
SELECT TOP 5 pizza name, SUM(total price) AS Top5Revenue -- Top 5 revenue
FROM pizza sales
GROUP BY pizza_name
ORDER BY Top5Revenue DESC;
      Least performing pizzas that generated the least revenue?
11.
      SQL QUERY
SELECT TOP 5 pizza name, SUM(total price) AS Top5Rev enue --Bottom 5 revenue
FROM pizza sales
GROUP BY pizza_name
ORDER BY Top5Revenue ASC;
12.
      Find the pizza name with the second highest quantity sold
      SQL QUERY
SELECT TOP 2 pIZZA NAME, SUM(quantity) AS RankQty FROM Pizza sales WHERE quantity <
```

(SELECT MAX(QUANTITY) FROM pizza sales)

ORDER BY RankOty DESC; -- Second with the highest qty sold

GROUP BY pizza name

<u>INSIGHTS</u>

- Classic pizza outshines every other pizzas with the highest order and revenue. Supreme made the second spot, while chicken and veggie have a slight difference between them.
- Pizza with the "L" size performs significantly higher than other size whilst pizza with the "xxl" size performs very low compare to others.
- The month of February & December generated low revenue but September & October are lowest in both revenue and quantity sold.
- Pizzas are mostly ordered by weekends than midweek and at dinner, lunch and evening with dinner topping the list.
- Classic deluxe performs best, with Barbecue chicken, Hawaii pizza, Pepperoni pizza and Thai chicken having slight or no difference between them.
- Soppresata, Spinach, Calabrese, Mediterranean and Brie-carrie pizza performs the lowest.

RECOMMENDATIONS

- Increase in production of Pizza with "L" size should be made priority as it performs the best.
- Pizzas categories are doing well but the strategy used for the Classic pizza can be applied to others in the same category as there's slight difference between them.
- Increase in production should be prioritize by mid-year starting from March-August and towards ending and new year (November-January). As sales seems to skyrocket at midyear.
- Plan for the increase in weekends pizza production than midweek.
- Least selling pizza production needs to be halted and invest more on top performing ones.