SQL+ Excel Project

Context of dataset: Pizza Shop Data

Data Source: ■ Pizza Data For SQL & Excel

KPI Requirement

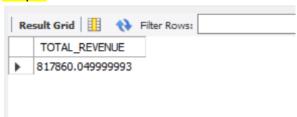
To analyze key indicators for pizza sales data to gain insights into the business.

Metrics to calculate:

1. Total Revenue: This is the sum of the total price of all pizza orders

Select SUM(total_price) AS TOTAL_REVENUE from pizza_sales

Output:

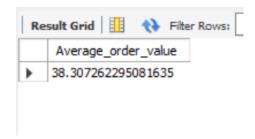


2. Average Order Value: This is the average amount spent per order.

Select * FROM pizza_sales;

Select SUM(total_price) /count(DISTINCT order_id) AS Average_order_value from pizza_sales

Output:



3. Total Pizzas sold

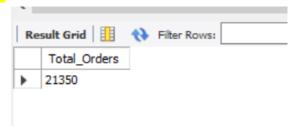
SELECT * FROM pizza_sales; SELECT sum(quantity) AS Total_Pizzas_Sold from pizza_sales;



4. Total Orders

SELECT * FROM pizza_sales; SELECT COUNT(DISTINCT order_id) AS Total_Orders from pizza_sales;

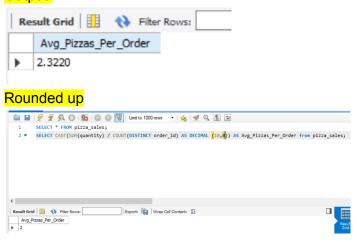
Output:



5. Total number of pizzas sold

SELECT * FROM pizza_sales; SELECT SUM(quantity) / COUNT(DISTINCT order_id) AS Avg_Pizzas_Per_Order from pizza_sales;

Output:



Additionally, I want to create some charts with further insights into the data provided to answer the questions below.

- i) To identify any patterns in order volumes on a daily basis Daily trend for total orders
- ii) To identify peak hours or periods of high order activity- Hourly trend for total orders

- iii) To provide insight into the popularity of various pizza categories- Percentage of sales by pizza category
- iv) Percentage of sales by pizza size
- v) Total pizzas sold by pizza category
- vi) Top 5 best sellers by total pizzas sold
- vii) Bottom 5 sellers by total pizzas sold

Daily trend for total orders

select * from pizza_sales;

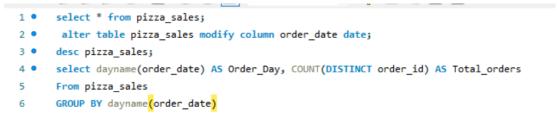
alter table pizza_sales modify column order_date date;

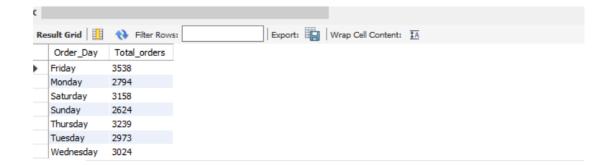
desc pizza_sales;

select dayname(order_date) AS Order_Day, COUNT(DISTINCT order_id) AS Total_orders From pizza_sales

GROUP BY dayname(order_date);

Output:



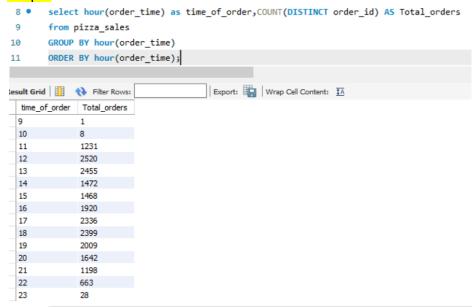


2. Hourly trend for total orders

select hour(order_time) as time_of_order,COUNT(DISTINCT order_id) AS Total_orders from pizza_sales

GROUP BY hour(order time)

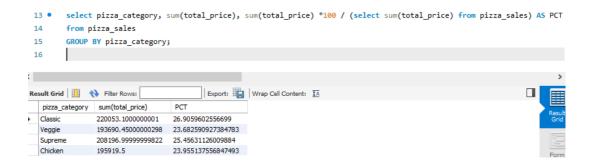
ORDER BY hour(order_time);



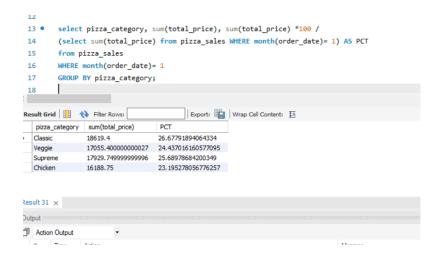
3. Percentage of sales by pizza category

select pizza_size, sum(total_price), sum(total_price) *100 / (select sum(total_price) from pizza_sales) AS PCT from pizza_sales
GROUP BY pizza_size
ORDER BY PCT;

Output:



Further to show the percentage of sales by pizza category by month; Where 1 refers to Jan



4. Percentage of sales by pizza size

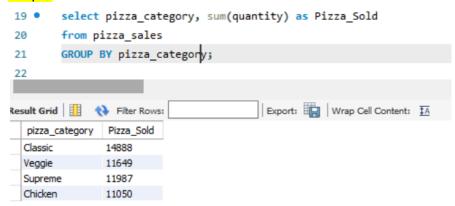
select pizza_size, sum(total_price), sum(total_price) *100 / (select sum(total_price) from pizza_sales) AS PCT from pizza_sales
GROUP BY pizza_size
ORDER BY PCT;

Output:

```
13 • select pizza_size, sum(total_price), sum(total_price) *100 /
     (select sum(total_price) from pizza_sales) AS PCT
     from pizza_sales
15
     GROUP BY pizza_size
16
       ORDER BY PCT;
17
18
19 • select pizza_category, sum(quantity) as Pizza_Sold
Export: Wrap Cell Content: IA
  pizza_size sum(total_price)
                          PCT
           1006.6000000000005 0.12307729176892906
          14076 1.7210768517181052
 XL
          178076.49999999843 21.773468455880682
  S
        249382.25 30.492044451859723
 L
          375318.7000000087 45.8903329487743
```

5. Total pizzas sold by pizza category

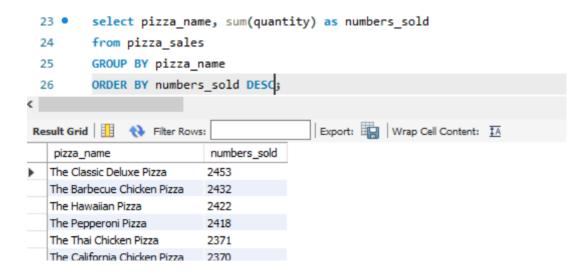
select pizza_category, sum(quantity) as Pizza_Sold from pizza_sales GROUP BY pizza_category;



6. Top best sellers by total pizzas sold

select pizza_name, sum(quantity) as numbers_sold from pizza_sales
GROUP BY pizza_name
ORDER BY numbers_sold DESC;

Output:



7. Bottom 5 worst sellers by total pizzas sold

select pizza_name, sum(quantity) as numbers_sold from pizza_sales
GROUP BY pizza_name
ORDER BY numbers_sold ASC
LIMIT 5;

```
28 •
         select pizza_name, sum(quantity) as numbers_sold
         from pizza_sales
 29
         GROUP BY pizza_name
 30
         ORDER BY numbers_sold ASC
 31
 32
         LIMIT 5;
(
Export: Wrap Cell Content
   pizza_name
                         numbers_sold
  The Brie Carre Pizza
                         490
   The Mediterranean Pizza
                        934
   The Calabrese Pizza
                         937
   The Spinach Supreme Pizza
                        950
  The Soppressata Pizza
                         961
```