PIELOGY SALES ANALYSIS

Objective :- This project will show you how to analyze sales of Pizza company. I have examined the dataset with SQL and helped the company understands its business growth by answering simple and complex questions based on , total revenue, Most sold pizza types ,sales distribution acorss the hours,average pizza sales for each day. This analysis will provide great insights to the Company to make the right and effective decisions

Database and Tools Used :- MySQL

Concepts used for this Project:

1.Aggregation functions like sum, average, count

2.Window functions

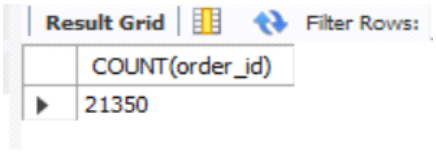
3.Sub-queries

4. Joins: join, Left join, Inner join

1.To get the total number of orders

```
-- To get the total number of orders--
SELECT
    COUNT(order_id)
FROM
    orders;
```

Result:-

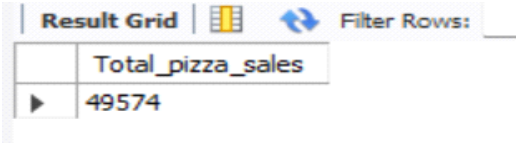


2.To get total number of pizza sales

```sql
-- To get toatl number of pizza sales --

SELECT
    SUM(quantity) AS Total_pizza_sales
FROM
    order_details;
```

Result:-

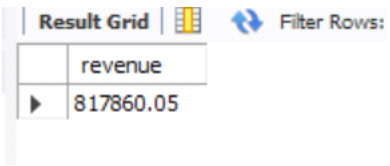


3.To calculate total revenue

```sql
-- To caluculate total revenue--

SELECT
    ROUND(SUM(quantity * price), 2) AS revenue
FROM
    order_details
        LEFT JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id;
```

Result:-

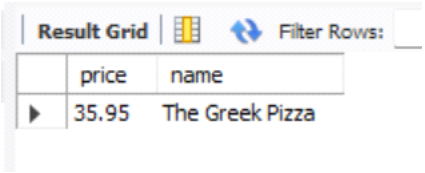


4.To get the most expensive pizza

```sql
-- To get the most expensive pizza--

SELECT
    price, pizza_types.name
FROM
    pizzas
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```

Result:-

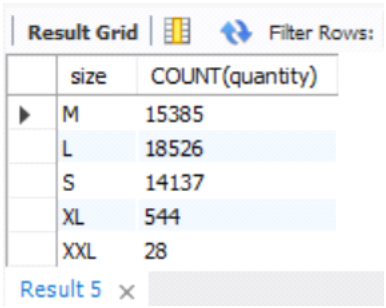


5.To get top 5 commonly orderded pizza size

```sql
-- To get top 5 commonly orderded pizza size--

SELECT
    size, COUNT(quantity)
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY size;
```

Result:-

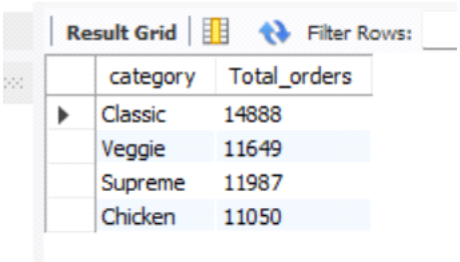


6.To get most number of orders category in pizza

```sql
-- To get most number of  orderes  catagory  in pizza  --

SELECT
    category, SUM(order_details.quantity) AS Total_orders
FROM
    pizzas
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.category;
```

Result:-

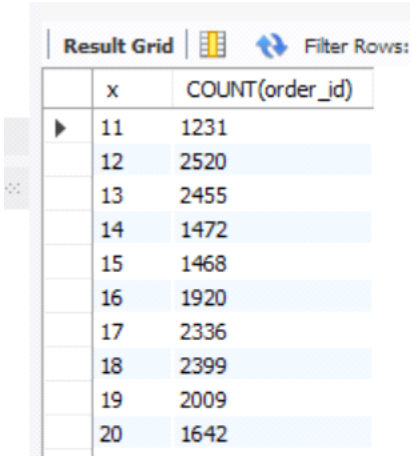


7.To know Hourly distribution of sales

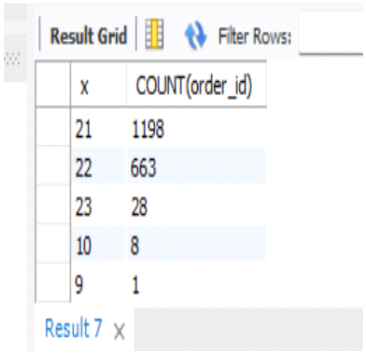
```
-- To know Which Hour has most number of sales --

SELECT
    HOUR(order_time) AS x, COUNT(order_id)
FROM
    orders
GROUP BY HOUR(order_time);
```

Result:-



x	COUNT(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642



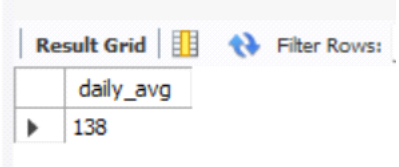
x	COUNT(order_id)
21	1198
22	663
23	28
10	8
9	1

Result 7 X

8.Group the orders by date and calculate the average number of pizzas ordered per day

```
-- Group the orders by date and calculate the average number of pizzas ordered per day--
SELECT
    ROUND(AVG(sold), 0) AS daily_avg
FROM
    (SELECT
        order_date AS z, SUM(quantity) AS sold
    FROM
        order_details
    JOIN orders ON orders.order_id = order_details.order_id
    GROUP BY z
    ORDER BY sold DESC) AS orders_quantity;
```

Result:-

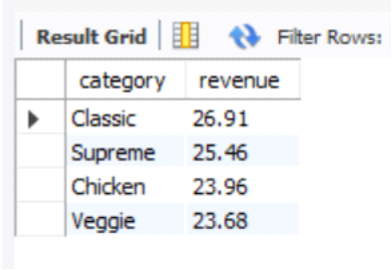


9.Calculate the percentage contribution of each pizza type to total revenue

```
-- Calculate the percentage contribution of each pizza type to total revenue --

SELECT
    pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.quantity * pizzas.price),
                                2)
                FROM
                    order_details
                        JOIN
                    pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
            2) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Result:-



category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68