

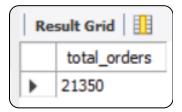
# Pizza Sales Analysis Using SQL

by Mahendralal Prajapati

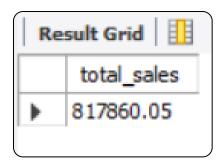
Q.1) Retrieve the Total number of Orders placed.

```
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```

**Output:** 



Q.2) Calculate the total revenue generated from pizza sales.

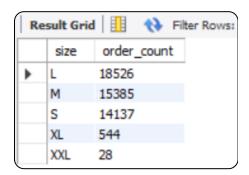


# Q.3) Identify the Highest-priced Pizza.

# **Output:**



Q.4) Identify the most common pizza size ordered.



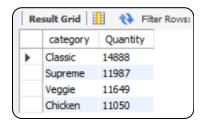
Q.5) List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity) AS total_quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY total_quantity DESC
LIMIT 5;
```



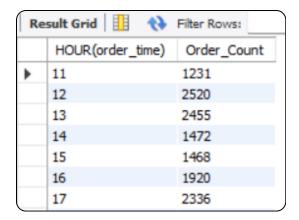
Q.6) Join the necessary tables to find the total quantity of each pizza category ordered.

```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS Quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY Quantity DESC;
```



Q.7) Determine the Distribution of orders by hour of the day.

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



Q.8) Join Relevant tables to find the Category-wise distribution of pizzas.

```
SELECT

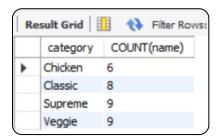
category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```

**Output:** 



Q.9) Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT
    ROUND(AVG(quantity), 0) as Avg_pizza_Per_day
FROM
    (SELECT
          orders.order_date, SUM(orders_details.quantity) AS Quantity
FROM
          orders
JOIN orders_details ON orders.order_id = orders_details.order_id
GROUP BY orders.order_date) AS order_Quantity;
```



## Q.10) Determine the top 3 most ordered pizza types based on revenue.

```
SELECT

pizza_types.name,

SUM(orders_details.quantity * pizzas.price) AS revenue

FROM

pizza_types

JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id

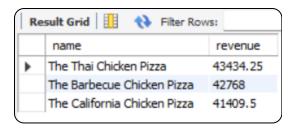
JOIN

orders_details ON orders_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY revenue DESC

LIMIT 3;
```



# Q.11)Calculate the Percentage contribution of each pizza type of total revenue.

```
SELECT

pizza_types.category,

round((SUM(orders_details.quantity * pizzas.price)) / (SELECT

ROUND(SUM(orders_details.quantity * pizzas.price),

2) AS total_sales

FROM

orders_details

JOIN

pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,2) as Revenue

FROM

pizza_types

JOIN

pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id

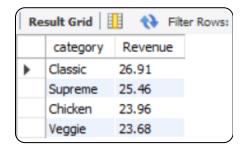
JOIN

orders_details ON orders_details.pizza_id = pizzas.pizza_type_id

GROUP BY pizza_types.category

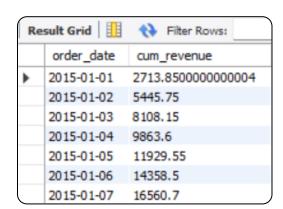
ORDER BY Revenue DESC;
```

### **Output:**



Q.12) Analyze the Cumulative revenue generated over time.

```
select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
sum(orders_details.quantity * pizzas.price) as revenue
from orders_details join pizzas
on orders_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = orders_details.order_id
group by orders.order_date) as sales;
```



Q.13) Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
select category, name, revenue,
rank() over(partition by category order by revenue desc) as rn
from
(select pizza_types.category, pizza_types.name,
SUM(orders_details.quantity * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
join orders_details
on orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <=3;</pre>
```

