HELLO!

"My name is Reema. In this SQL project on pizza sales, I used queries to analyze data, answer key questions, and gain valuable insights into customer preferences, sales trends, and inventory management."



Q:Basic:

Retrieve the total number of orders placed.

Calculate the total revenue generated from pizza sales.

Identify the highest-priced pizza.

Identify the most common pizza size ordered.

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

Q:Intermediate:

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

Determine the distribution of orders by hour of the day.

Join relevant tables to find the category-wise distribution of pizzas.

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

Determine the top 3 most ordered pizza types based on revenue.

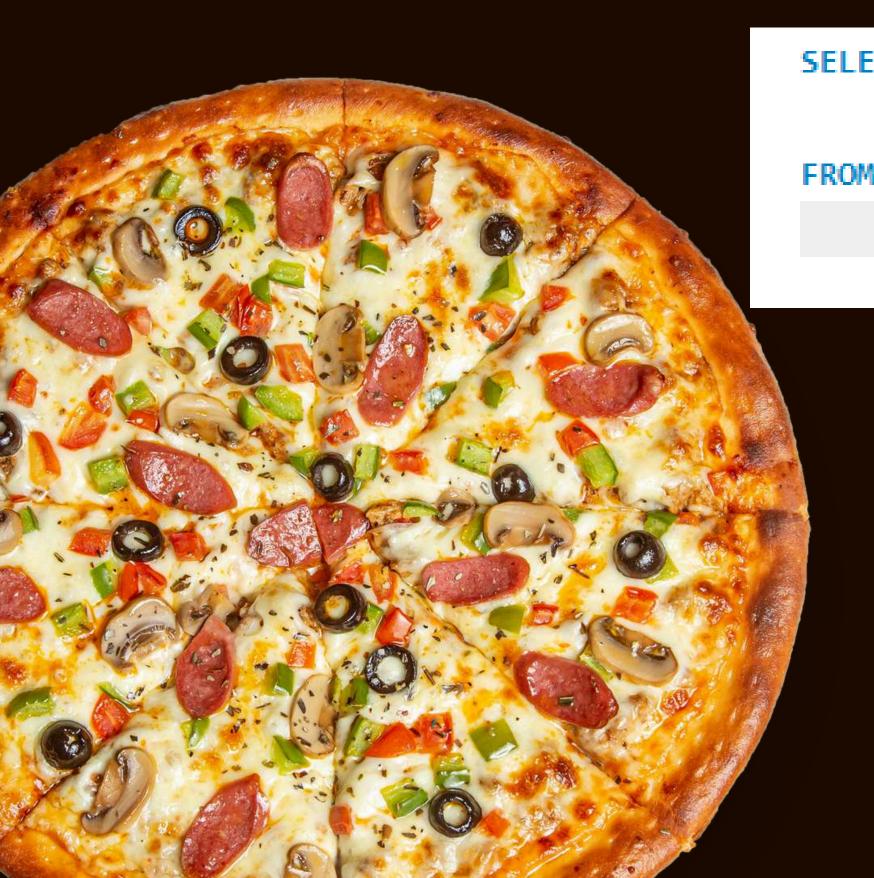
Q:Advanced:

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

Analyze the cumulative revenue generated over time.

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

Retrieve the total number of orders placed.?



SELECT

COUNT(order_id) AS total_orders

FROM

orders;

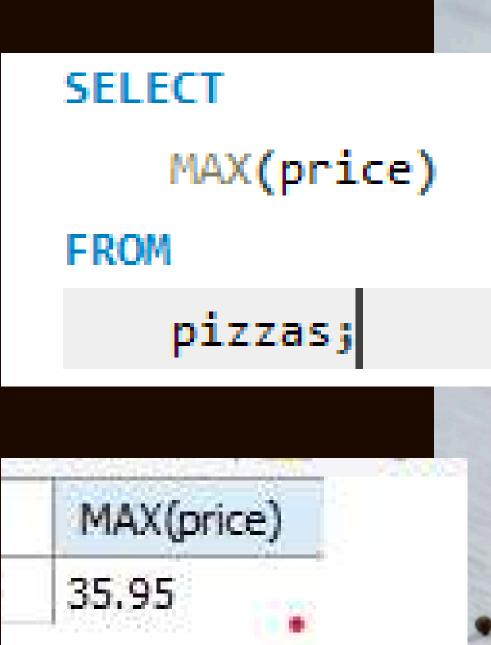
total_orders

21350

Calculate the total revenue generated from pizza sales?

```
SELECT
   ROUND(SUM(quantity * price), 2) AS total_revenue
FROM
   order_details
       JOIN
   pizzas ON pizzas.pizza_id = order_details.pizza_id;
                 total_revenue
                817860.05
```

Identify the highest-priced pizza?.





Identify the most common pizza size ordered?



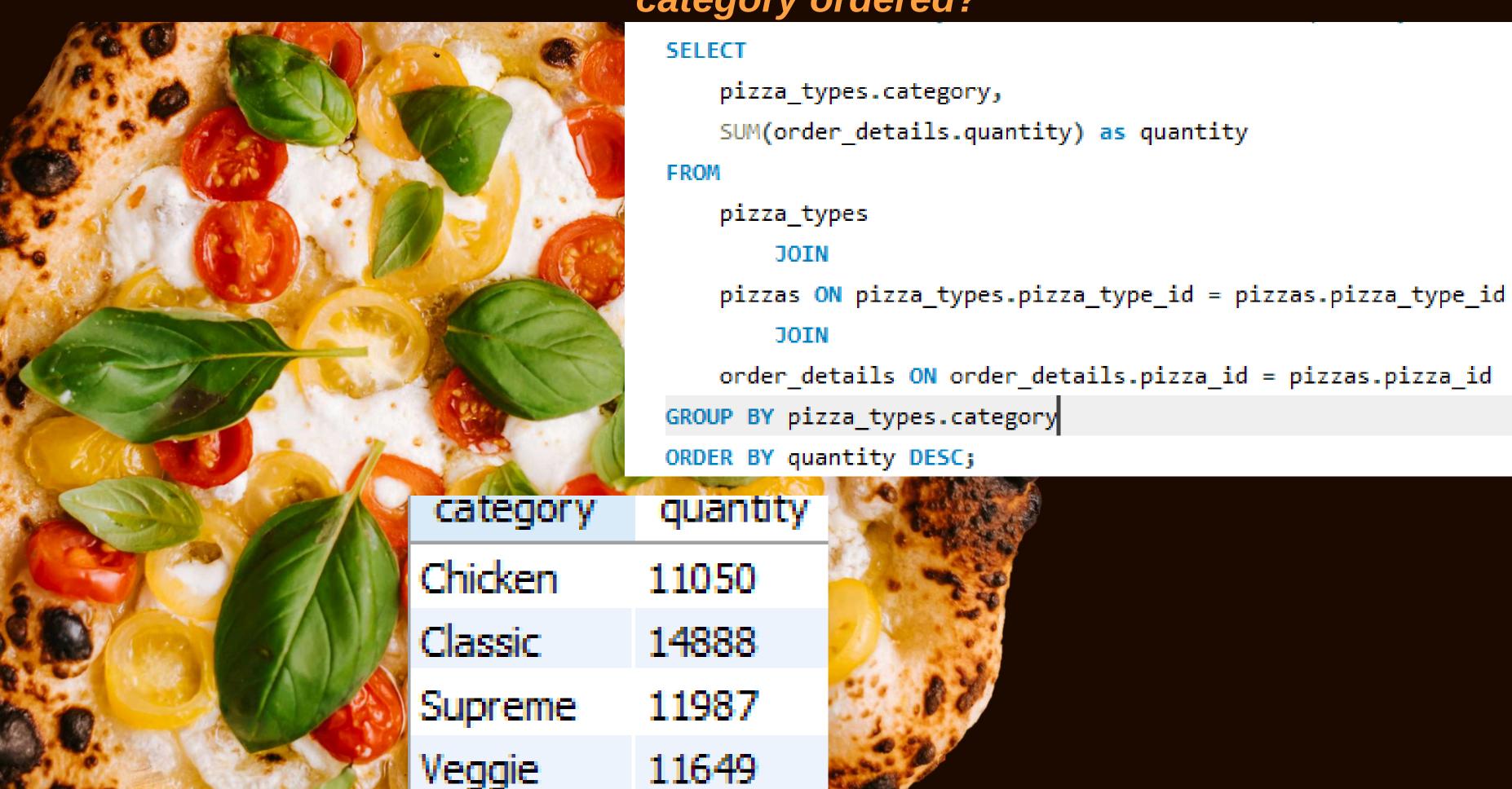
List the top 5 most ordered pizza types along with their quantities?.

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

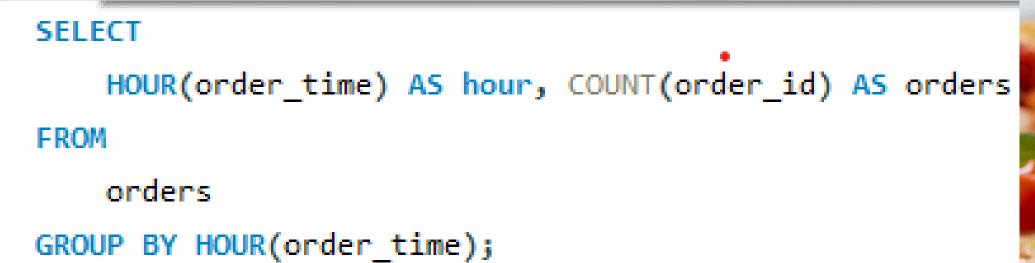


name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

Join the necessary tables to find the total quantity of each pizza category ordered?

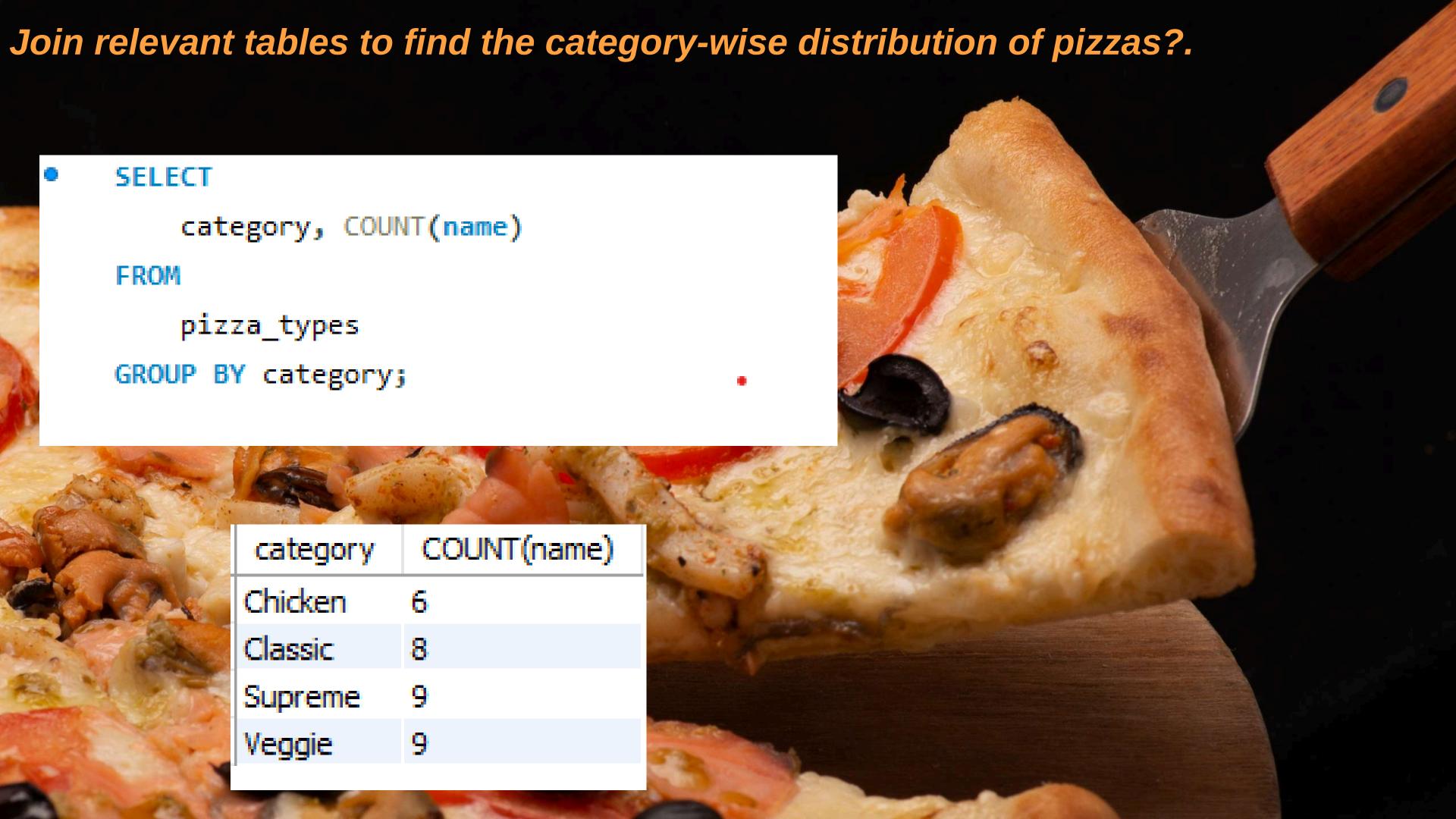


Determine the distribution of orders by hour of the day?



hour	orders
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
24	1100





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

```
SELECT
   ROUND(AVG(quantity), 0)
FROM
    (SELECT
       orders.order_date,
       SUM(order_details.quantity) AS quantity
   FROM
       orders
    JOIN order_details ON
   orders.order_id = order_details.order_id
   GROUP BY
   orders.order_date) AS order_quantity;
  ROUND(AVG(quantity), 0)
  138
```

Determine the top 3 most ordered pizza types based on 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) A5 total_sales
            FROM
        order_details
            JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
        AS revenue
    FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
    GROUP BY pizza_types.category
ORDER BY revenue DESC;
```



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(order_details.quantity* pizzas.price)
 as revenue
 from order_details join pizzas on order_details.pizza_id=pizzas.pizza_id
 join orders on orders.order_id=order_details.order_id
 group by orders.order_date) as sales;

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order_date	cum_revenue
2015-01-28	63059.85000000001
2015-01-29	65105.150000000016
2015-01-30	67375.45000000001
2015-01-31	69793.30000000002
2015-02-01	72982.50000000001
2015-02-02	75311.10000000002
2015-02-03	77925.90000000002
2015-02-04	80159.80000000002
2015-02-05	82375.60000000002
2015-02-06	84885.55000000002



Determine the top 3 most ordered pizza types based on revenue for each pizza category?

```
revenue, rank(), revenue from (select category, name, revenue)
 over(partition by category order by revenue desc) as rn
from (select pizza_types.category,pizza_types.name,
sum((order_details.quantity)* pizzas.price)
as revenue from pizza_types join pizzas on
pizza_types.pizza_type_id=pizzas.pizza_type_id
join order details
on order details.pizza id=pizzas.pizza id
group by pizza_types.category,pizza_types.name) as a) as b
where rn <=3;
```





Tienne	TEVERIGE
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5
The Classic Deluxe Pizza	38180.5
The Hawaiian Pizza	32273.25
The Pepperoni Pizza	30161.75

THANK YOU!

