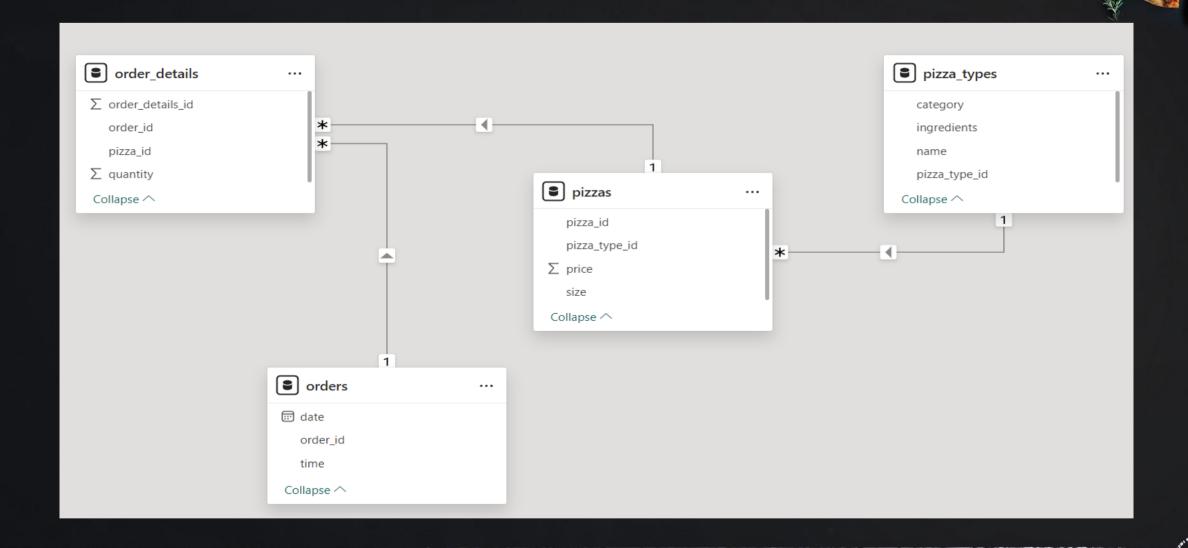




INTRODUCTION

Hello! My name is Sahil Sambhaji Honyalkar and in the highly competitive food and beverage industry, understanding sales patterns is crucial for making informed business decisions. This project focuses on analyzing pizza sales data using various SQL queries, providing valuable insights that can help improve operations, optimize inventory, and enhance customer satisfaction. By leveraging SQL queries, we will explore various dimensions of sales, such as popular pizza types, peak sales periods, customer preferences, and more. The insights gained will support data-driven decisions to boost sales and operational efficiency.

SCHEMA



LIST OF CONTENTS

Basic Questions

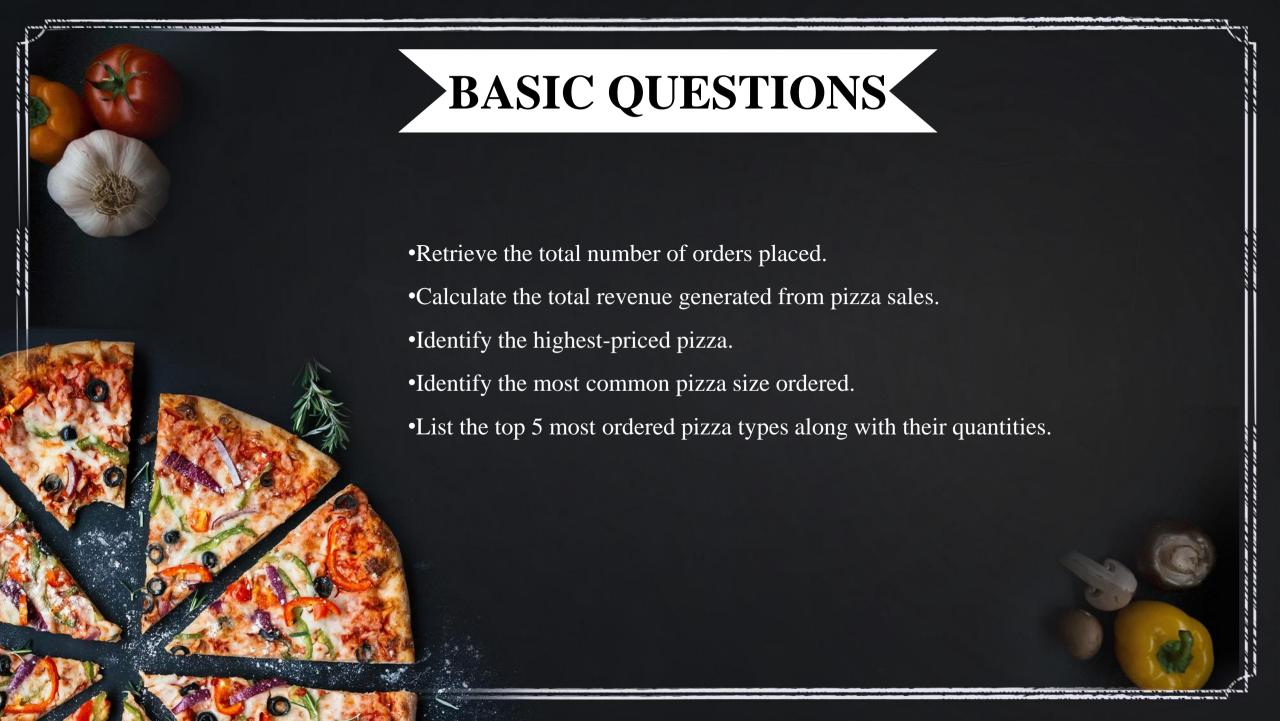
- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.

Intermediate Questions

- 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.

Advanced Questions

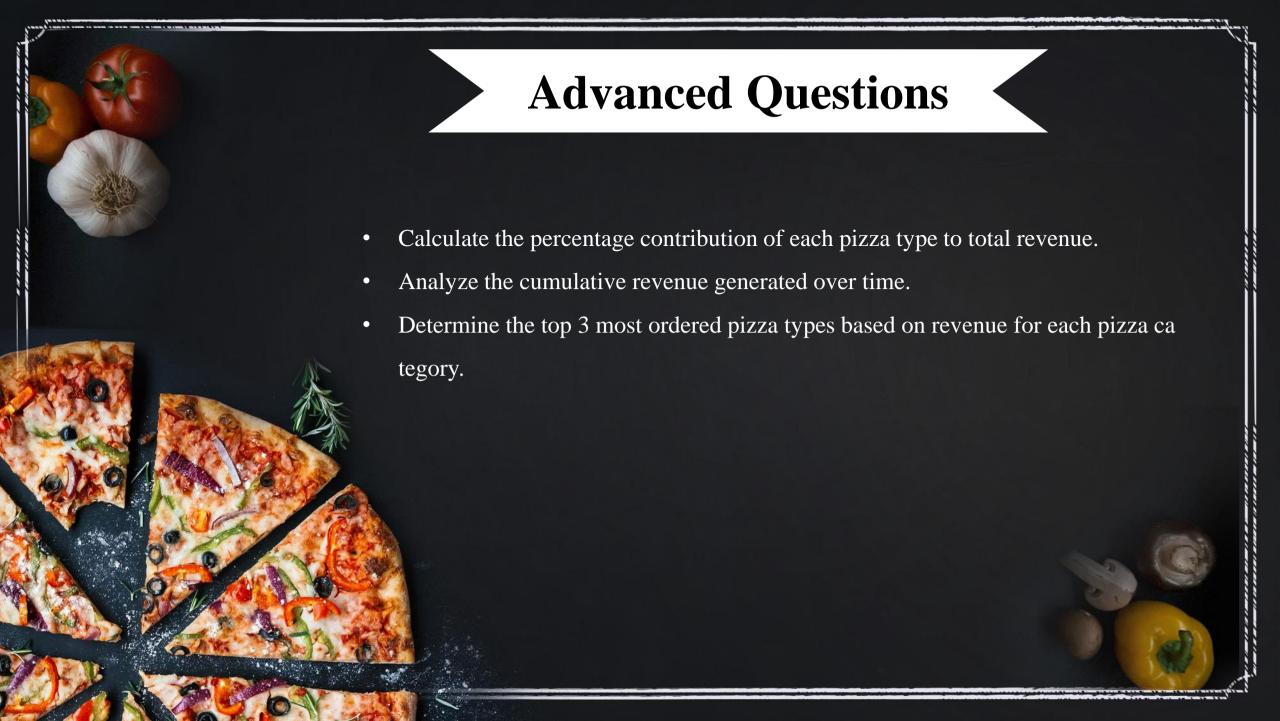
- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.





- 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.





Retrieve the total number of orders placed.

SELECT

COUNT(order_id) AS Total_Orders

FROM

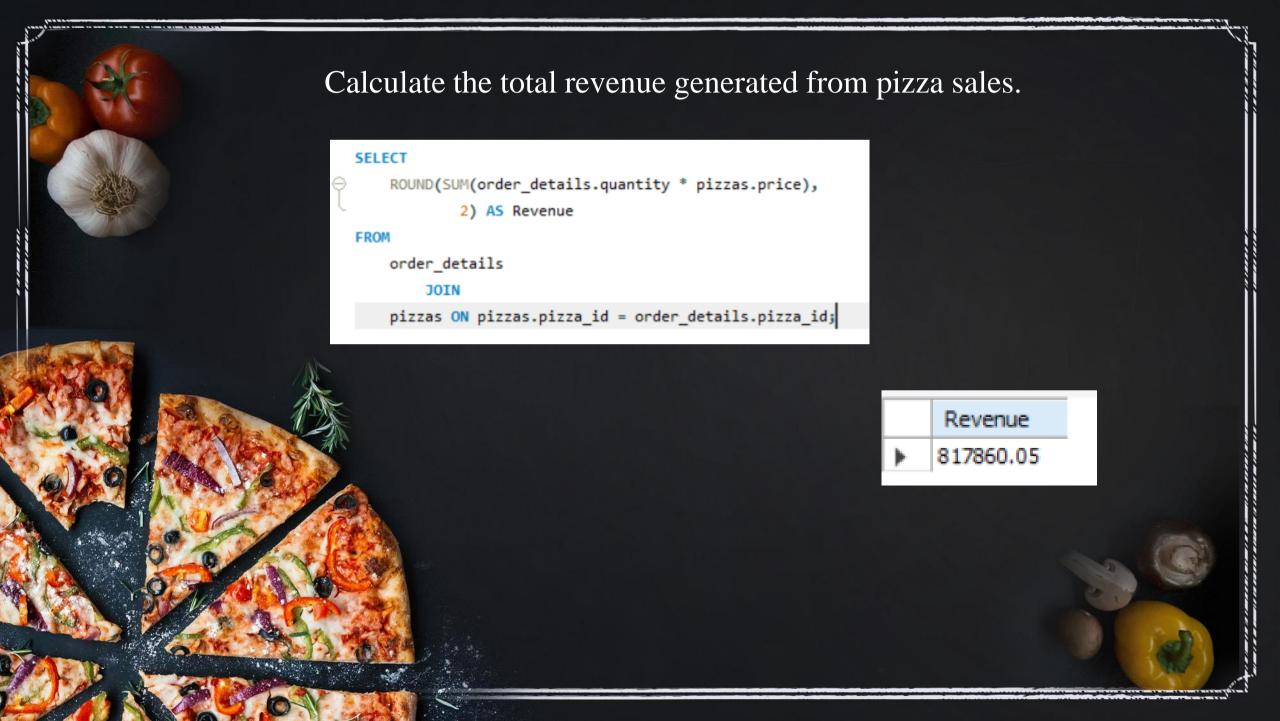
orders;









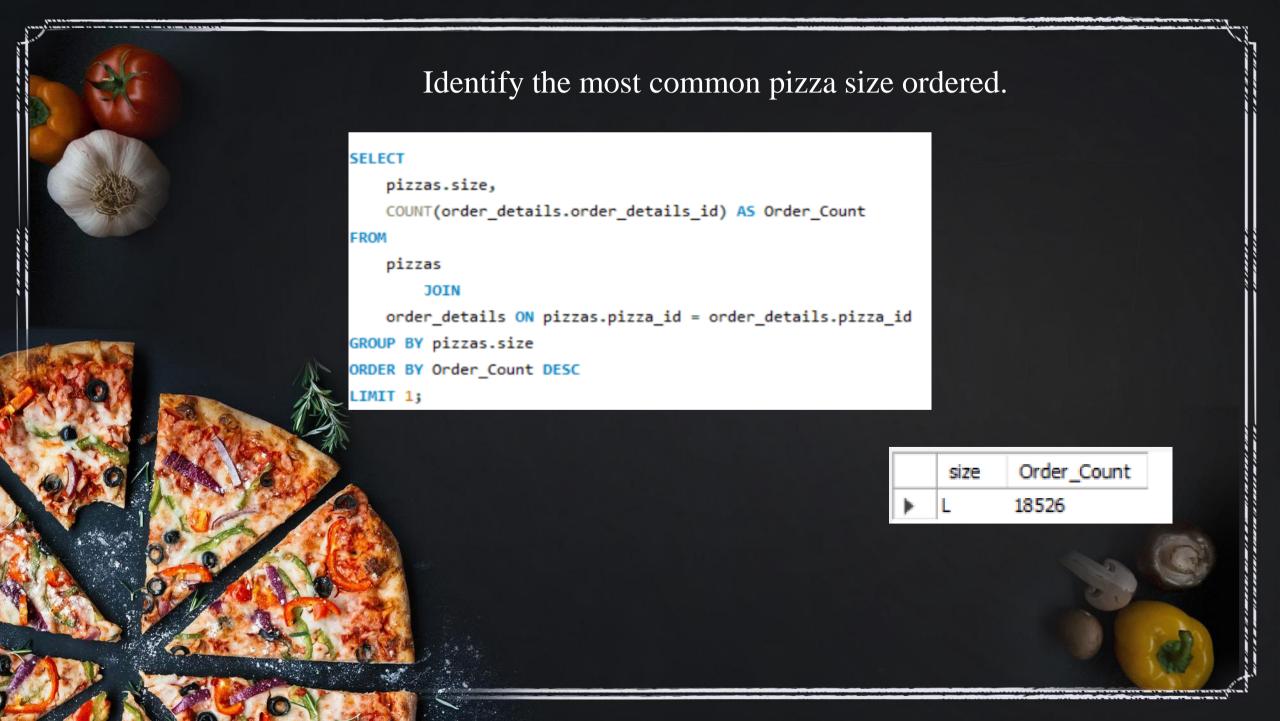


Identify the highest-priced pizza.



	name	price
•	The Greek Pizza	35.95





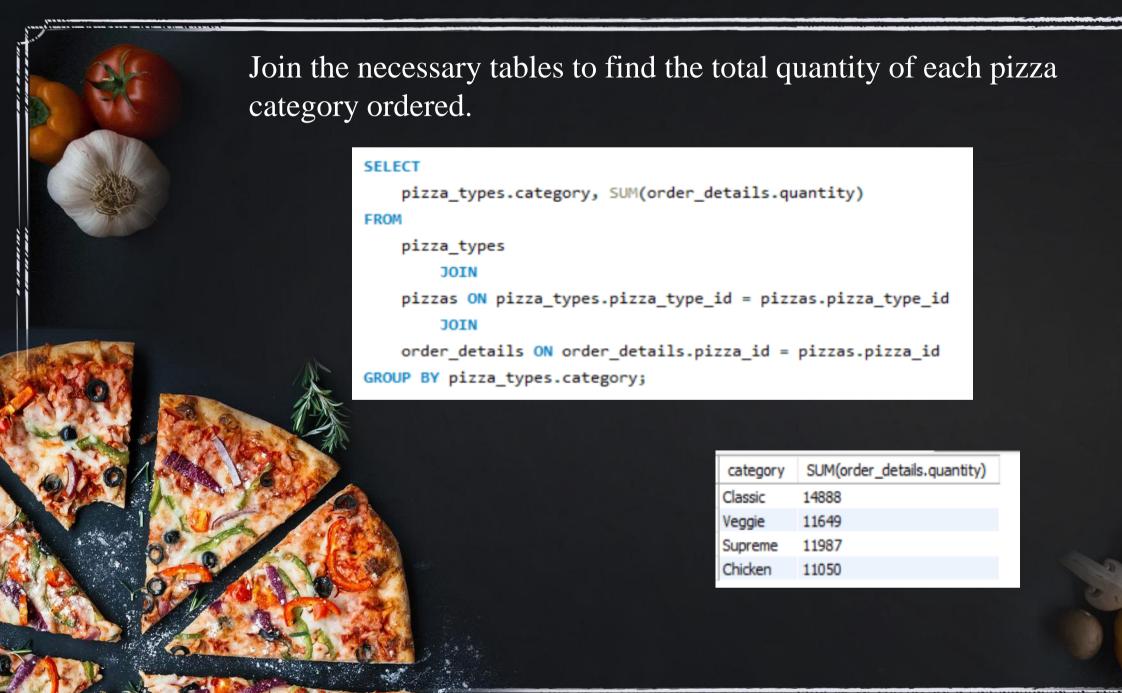
List the top 5 most ordered pizza types along with their quantities.

```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS Top_5
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.name
ORDER BY Top_5 DESC
LIMIT 5;
```





name	Top_5
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371



Determine the distribution of orders by hour of the day.

SELECT

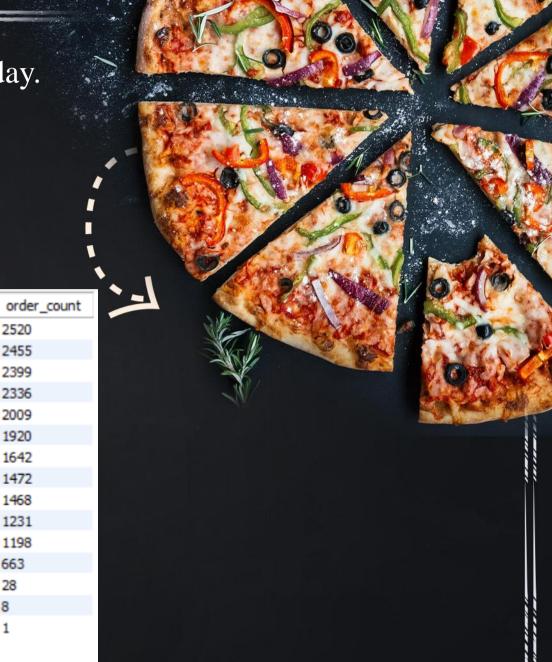
HOUR(order_time) AS hour, COUNT(order_id) AS order_count

FROM

orders

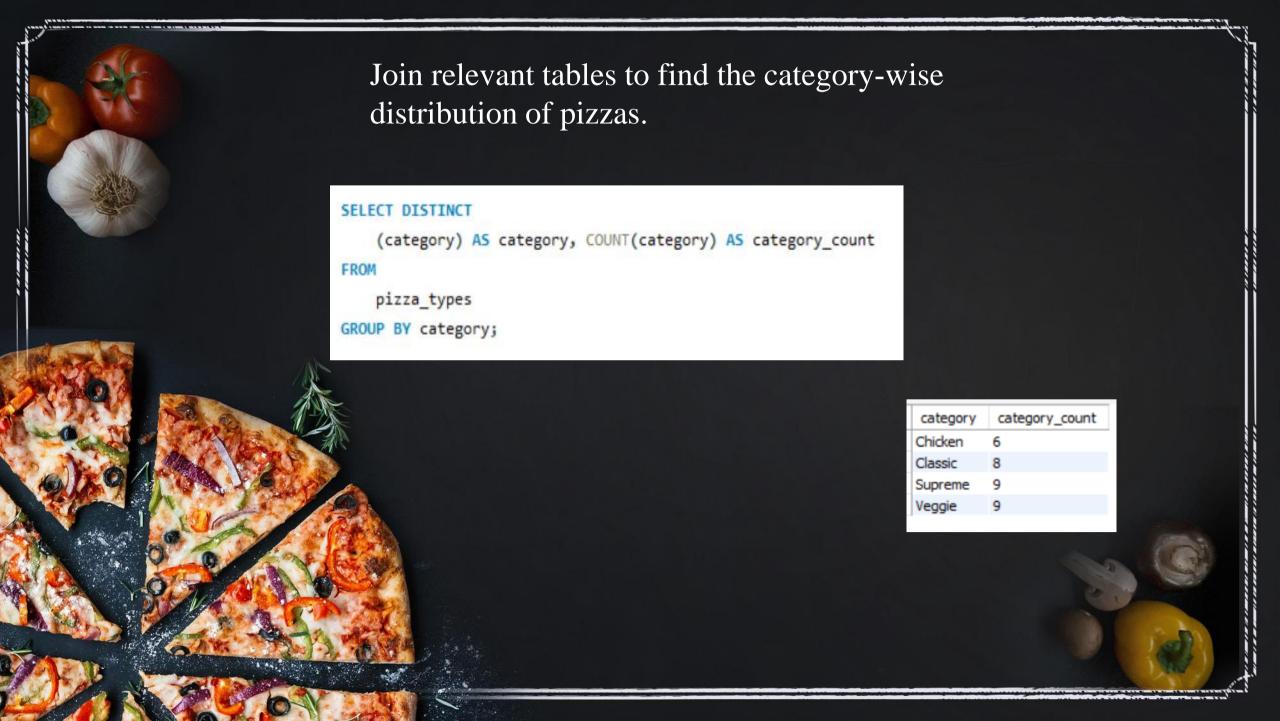
ORDER BY order_count DESC;







GROUP BY hour



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

```
SELECT

ROUND(AVG(quantity), 0) AS Avg_Pizzas_Ordered_PerDay

FROM

(SELECT

orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

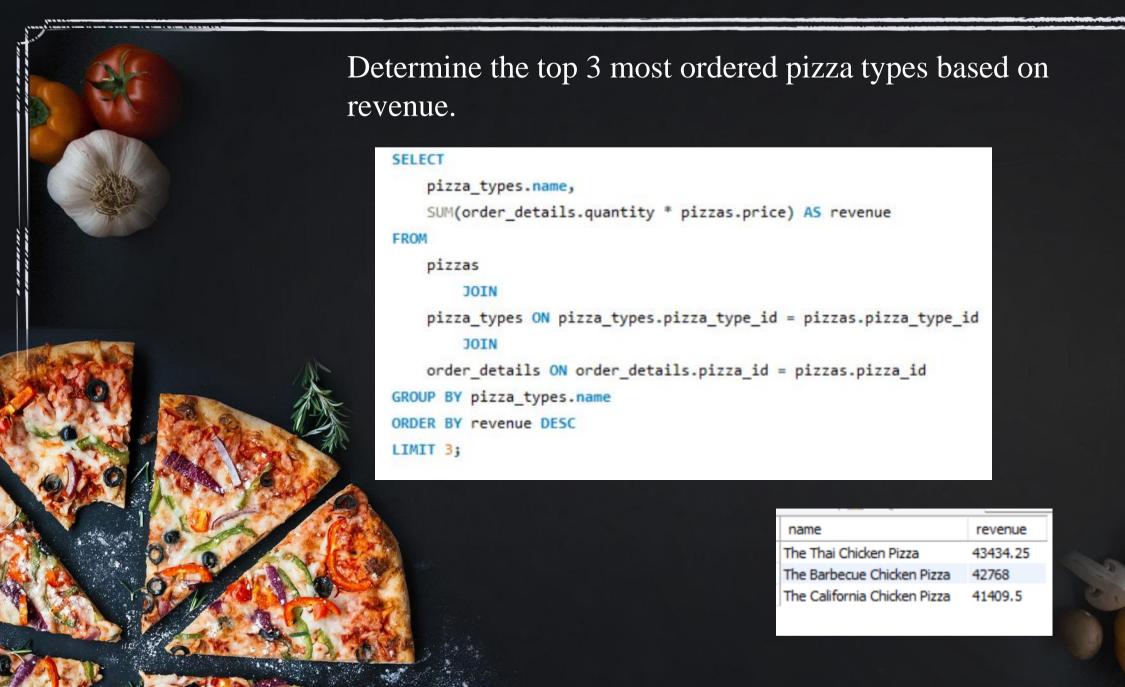
GROUP BY orders.order_date) AS order_quantity;
```





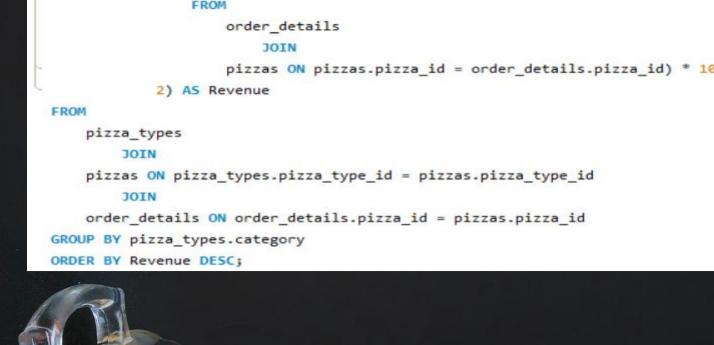
Avg_Pizzas_Ordered_PerDay

138



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

```
pizza types.category,
    ROUND(SUM(order details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order details.quantity * pizzas.price),
                                2) AS Total Sales
                FROM
                    order details
                        JOIN
                    pizzas ON pizzas.pizza id = order details.pizza id) * 100,
           2) 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;
```





category	Revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
/eggie	23.68



order_date	cummalative_revenue
2015-01-01	2713.8500000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7
2015-01-08	19399.05
2015-01-09	21526.4
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978.600000000006
2015 01 10	42265 25000000001

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

```
select category,name,revenue,rn from

(select category,name,revenue,
    rank() 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
    order_details join pizzas on
    order_details.pizza_id = pizzas.pizza_id
    join pizza_types on
    pizza_types.pizza_type_id = pizzas.pizza_type_id group by pizza_types.category, pizza_types.name) as a) as b
    where rn<=3;</pre>
```





category	name	revenue	rn		
Chicken	The Thai Chicken Pizza	43434.25	1		
Chicken	The Barbecue Chicken Pizza	42768	2		
Chicken	The California Chicken Pizza	41409.5	3		
Classic	The Classic Deluxe Pizza	38180.5	1		
Classic	The Hawaiian Pizza	32273.25	2		
Classic	The Pepperoni Pizza	30161.75	3		
Supreme	The Spicy Italian Pizza	34831.25	1		
Supreme	The Italian Supreme Pizza	33476.75	2		
Supreme	The Sicilian Pizza	30940.5	3		
Veggie	The Four Cheese Pizza	32265.70000000065	1		
Veggie	The Mexicana Pizza	26780.75	2		
Veggie	The Five Cheese Pizza	26066.5	3		

