



PIZZA RESTAURANT

# SQL PROJECT

# PIZZA SALES

@akashmula

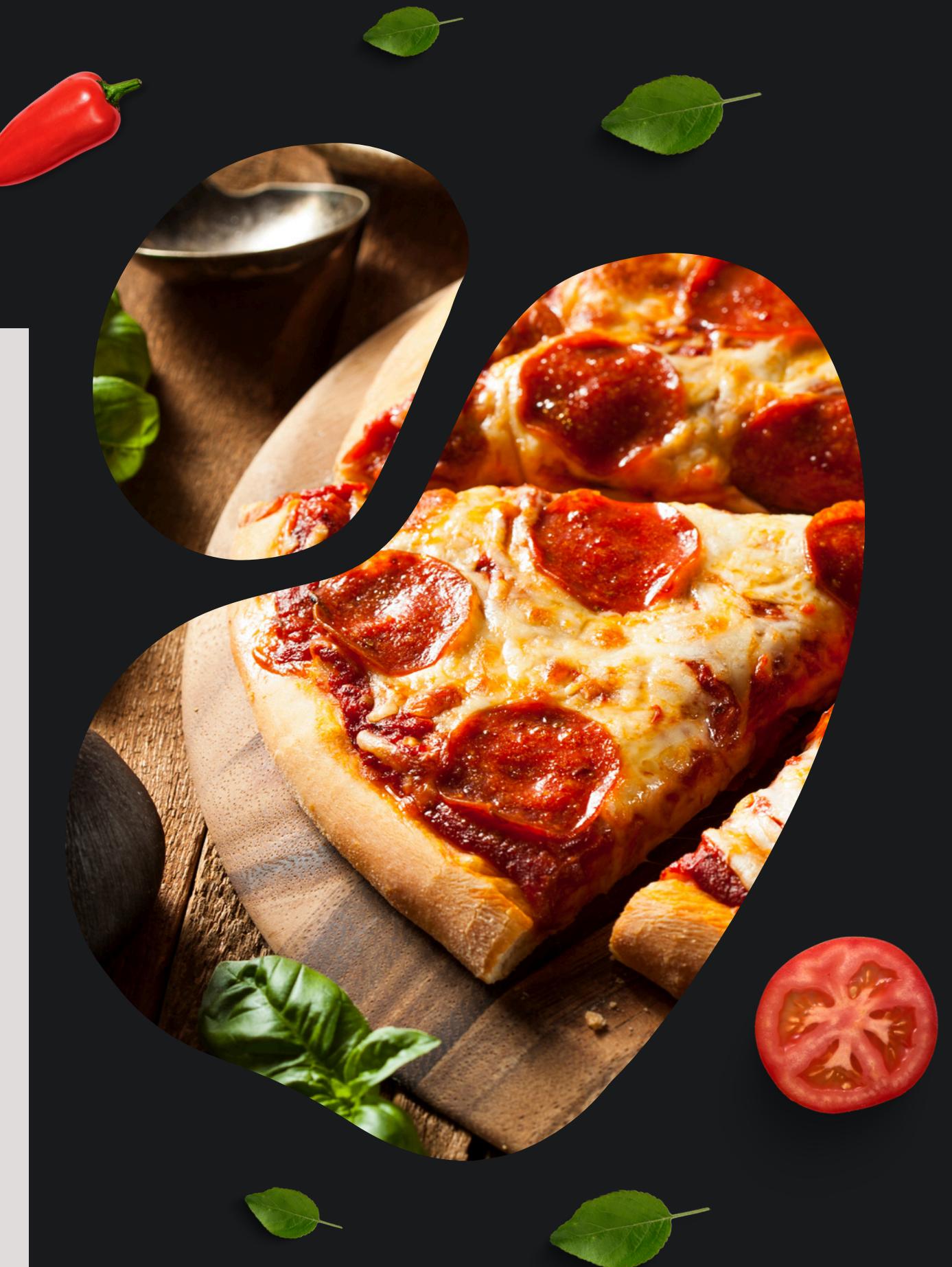
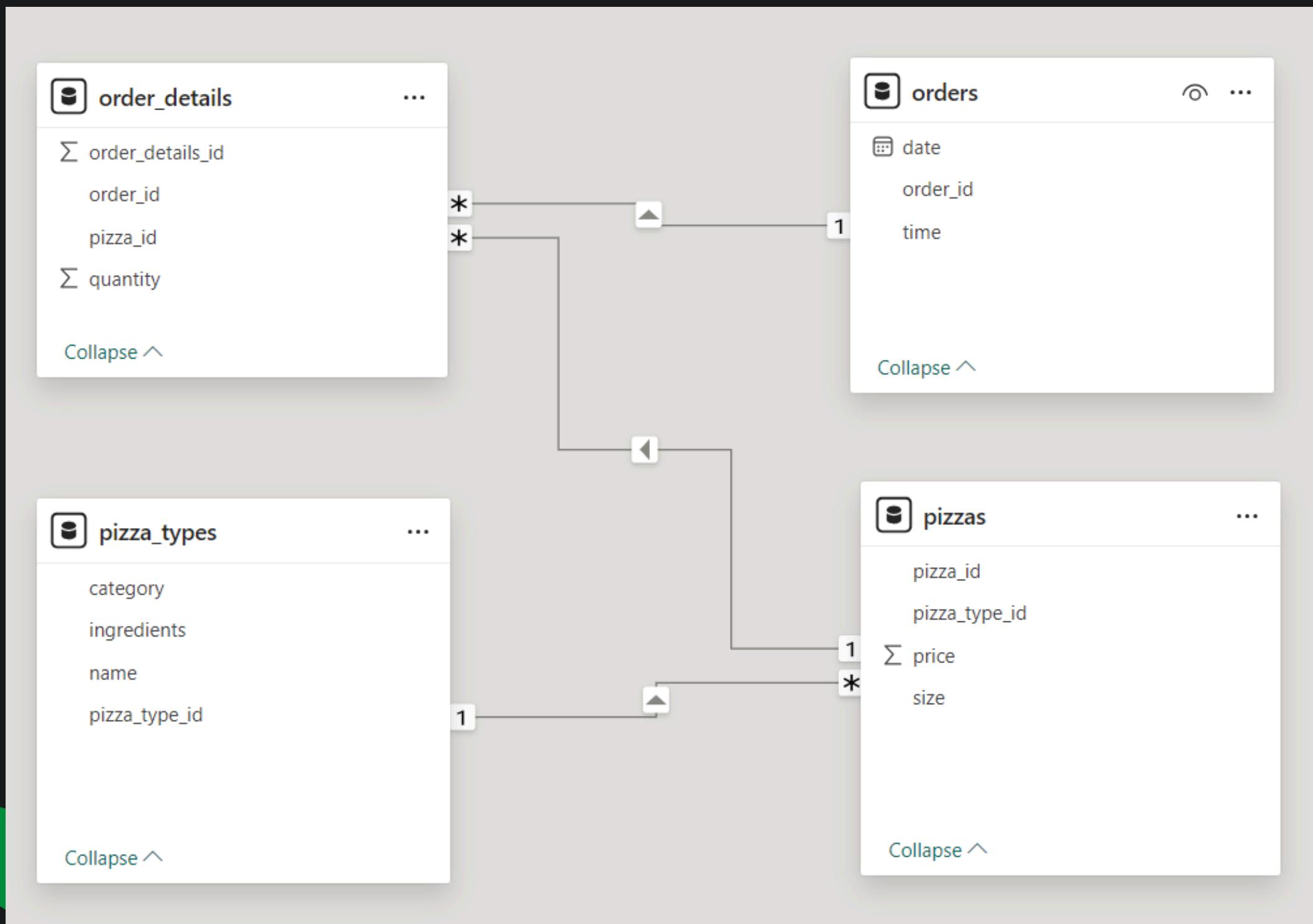




**HELLO!  
I AM AKASH MULA.**

In this project, I have utilized sql queries to solve questions that are related to pizza sales.

# DATABASE SCHEMA



# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

Result Grid

	total_orders
▶	21350

SELECT

COUNT(order\_id) AS total\_orders

FROM

pizzahut.orders;



# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

Result Grid

	revenue
▶	817860.05

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



# IDENTIFY THE HIGHEST-PRICED PIZZA.

Result Grid | Filter Rows

	name	price
▶	The Greek Pizza	35.95



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

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

Result Grid | Filter

	size	order_count
▶	L	18526

```
SELECT
    p.size, COUNT(order_details_id) AS order_count
FROM
    pizzas p
    LEFT JOIN
    orders_details o ON p.pizza_id = o.pizza_id
GROUP BY p.size
ORDER BY order_count DESC
LIMIT 1;
```



# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.

Result Grid | Filter Rows:

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



SELECT

pt.name, SUM(o.quantity) AS order\_quantity

FROM

pizza\_types pt

JOIN

pizzas p

JOIN

orders\_details o ON pt.pizza\_type\_id = p.pizza\_type\_id

AND p.pizza\_id = o.pizza\_id

GROUP BY pt.name

ORDER BY order\_quantity DESC

LIMIT 5;

# JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

Result Grid | Filter Row

	category	order_quantity
▶	Chicken	11050
	Classic	14888
	Supreme	11987
	Veggie	11649



```
SELECT pt.category, SUM(o.quantity) AS order_quantity  
FROM pizza_types pt  
JOIN pizzas p  
JOIN orders_details o ON pt.pizza_type_id = p.pizza_type_id  
AND p.pizza_id = o.pizza_id  
GROUP BY pt.category;
```

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
SELECT  
    HOUR(order_time) AS per_hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY per_hour  
ORDER BY order_count DESC;
```

	per_hour	order_count
▶	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28
	10	8
	9	1



# JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS



A screenshot of a database query results grid. The grid has a header row with 'category' and 'no\_of\_pizza'. Below are four data rows: Chicken (6), Classic (8), Supreme (9), and Veggie (9). The 'Classic' row is highlighted with a light blue background.

	category	no_of_pizza
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

SELECT

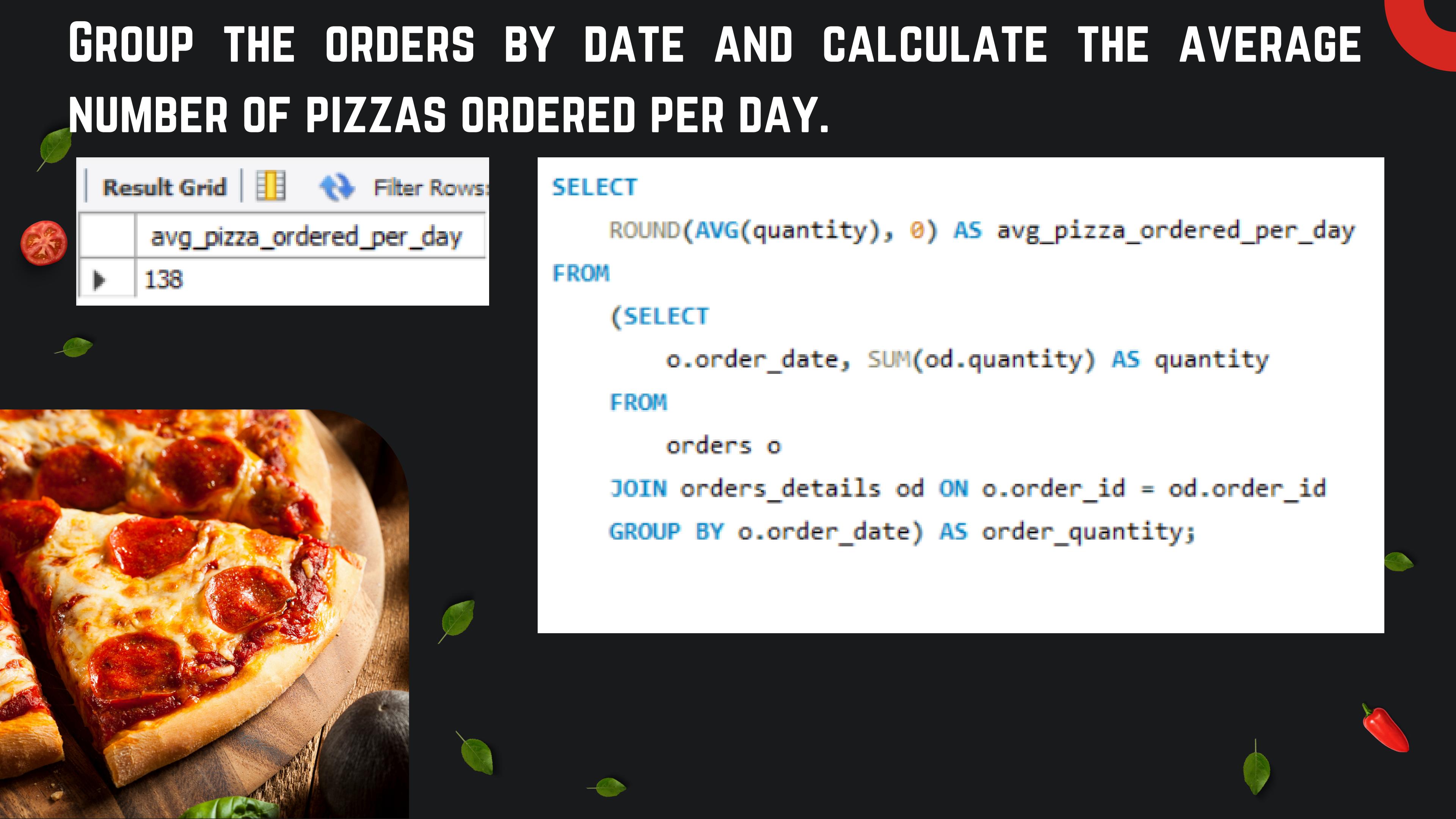
category, COUNT(name) AS no\_of\_pizza

FROM

pizza\_types

GROUP BY category;

# GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.



Result Grid | Filter Rows:

	avg_pizza_ordered_per_day
▶	138

```
SELECT  
    ROUND(AVG(quantity), 0) AS avg_pizza_ordered_per_day  
FROM  
    (SELECT  
        o.order_date, SUM(od.quantity) AS quantity  
    FROM  
        orders o  
    JOIN orders_details od ON o.order_id = od.order_id  
    GROUP BY o.order_date) AS order_quantity;
```

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



Result Grid | Filter Rows:

	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

SELECT

pt.name, SUM(p.price \* od.quantity) AS revenue

FROM

pizza\_types pt

JOIN

pizzas p

JOIN

orders\_details od ON pt.pizza\_type\_id = p.pizza\_type\_id

AND p.pizza\_id = od.pizza\_id

GROUP BY pt.name

ORDER BY revenue DESC

LIMIT 3;

# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.



Result Grid | Filter Rows:

	category	revenue_percentage
▶	Chicken	23.96
	Classic	26.91
	Supreme	25.46
	Veggie	23.68

```
SELECT pt.category,  
ROUND((SUM(od.quantity * p.price) / (SELECT  
SUM(p.price * o.quantity) AS total_revenue  
FROM pizzas p  
LEFT JOIN orders_details o ON p.pizza_id = o.pizza_id)) * 100,  
2) AS revenue_percentage  
FROM pizza_types pt  
JOIN pizzas p  
JOIN orders_details od ON pt.pizza_type_id = p.pizza_type_id  
AND p.pizza_id = od.pizza_id  
GROUP BY pt.category;
```

# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select o.order_date, round(sum(p.price*od.quantity),2) as revenue,  
round(SUM(sum(p.price*od.quantity))) OVER (ORDER BY o.order_date),2) AS CumulativeRevenue  
from orders o  
join pizzas p  
join orders_details od  
on o.order_id = od.order_id  
and p.pizza_id = od.pizza_id  
group by o.order_date;
```



	order_date	revenue	CumulativeRevenue
▶	2015-01-01	2713.85	2713.85
	2015-01-02	2731.90	5445.75
	2015-01-03	2662.40	8108.15
	2015-01-04	1755.45	9863.60
	2015-01-05	2065.95	11929.55
	2015-01-06	2428.95	14358.50
	2015-01-07	2202.20	16560.70
	2015-01-08	2838.35	19399.05
	2015-01-09	2127.35	21526.40
	2015-01-10	2463.95	23990.35
	2015-01-11	1872.30	25862.65
	2015-01-12	1919.05	27781.70
	2015-01-13	2049.60	29831.30
	2015-01-14	2527.40	32358.70
	2015-01-15	1984.80	34343.50
	2015-01-16	2594.15	36937.65
	2015-01-17	2064.10	39001.75
	2015-01-18	1976.85	40978.60

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

```
select name, category, revenue from
(select pt.name, pt.category, sum(p.price*od.quantity) as revenue,
rank() over(partition by pt.category order by revenue desc) as rn
from pizza_types pt
join pizzas p
join orders_details od
on pt.pizza_type_id = p.pizza_type_id
and p.pizza_id = od.pizza_id
group by pt.category, pt.name) as a
where rn<=3;
```

	name	category	revenue
▶	The Barbecue Chicken Pizza	Chicken	42768
	The California Chicken Pizza	Chicken	41409.5
	The Thai Chicken Pizza	Chicken	43434.25
	The Classic Deluxe Pizza	Classic	38180.5
	The Hawaiian Pizza	Classic	32273.25
	The Pepperoni Pizza	Classic	30161.75
	The Italian Supreme Pizza	Supreme	33476.75
	The Sicilian Pizza	Supreme	30940.5
	The Spicy Italian Pizza	Supreme	34831.25
	The Five Cheese Pizza	Veggie	26066.5
	The Four Cheese Pizza	Veggie	32265.7...
	The Mexicana Pizza	Veggie	26780.75



THANK  
FOR YOU