

HELLO, I'M FATHIMA S.,

Coro.

A PASSIONATE AND DETAIL-ORIENTED
GRADUATE WITH AN INTEREST IN DATA
ANALYSIS AND SQL-BASED PROJECTS. THIS
PRESENTATION SHOWCASES ONE OF MY
RECENT HANDS-ON PROJECTS FOCUSED ON
ANALYZING PIZZA SALES USING SQL.





PROJECT OVERVIEW

THIS PROJECT AIMS TO ANALYZE PIZZA SALES DATA TO UNCOVER MEANINGFUL INSIGHTS SUCH AS TOP-SELLING PIZZAS, REVENUE TRENDS, CUSTOMER PREFERENCES, AND OVERALL BUSINESS PERFORMANCE. USING SQL, I QUERIED A STRUCTURED RELATIONAL DATABASE TO GENERATE DATA-DRIVEN ANSWERS FOR



DATABASE STRUCTURE



Table: pizzas

Columns:

pizza_id text
pizza_type_id text
size text
price double

Table: pizza_types

Columns:

pizza_type_id text name text category text ingredients text

Table: orders

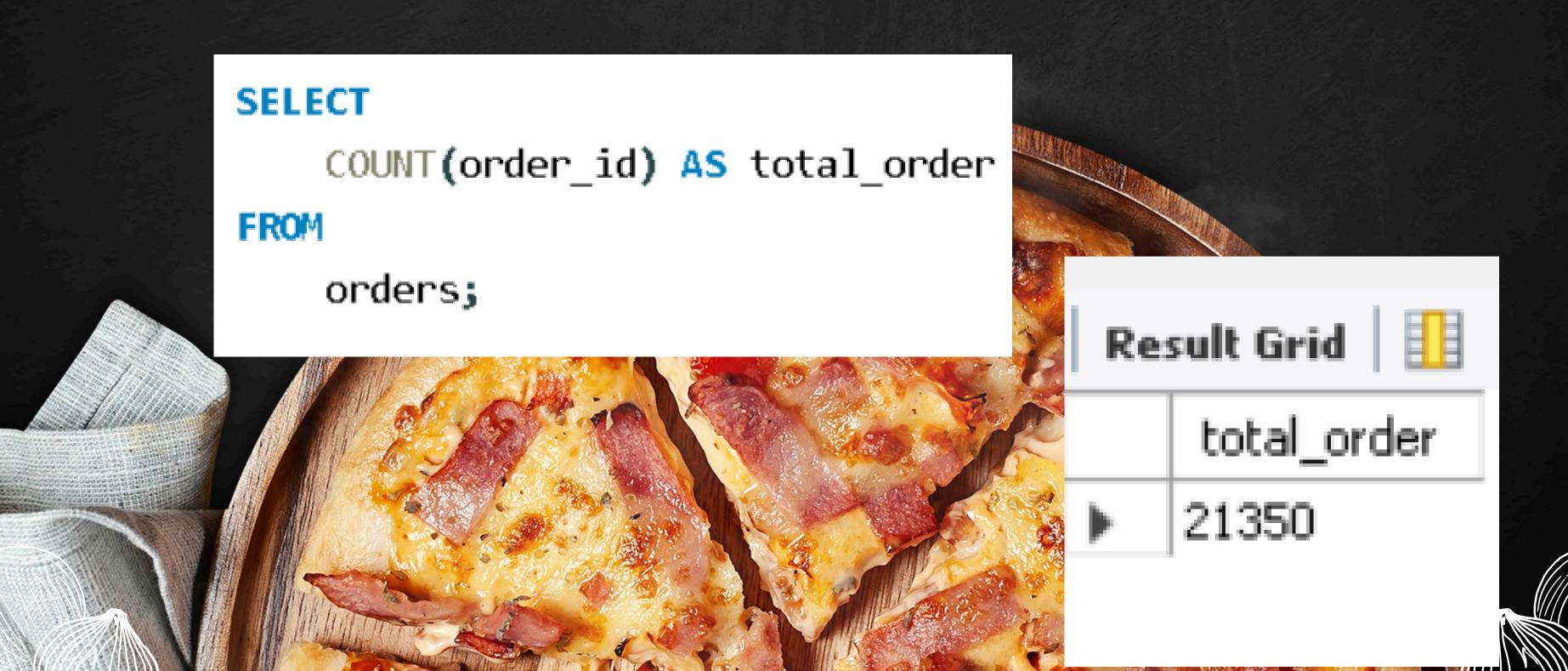
Columns:

order_id int PK order_date date order_time time Table: order_details

Columns:

order_details_id int PK order_id int pizza_id text quantity int

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

```
SELECT
    ROUND(SUM(price * quantity), 2) A5 total_revenue
FROM
    pizzas p
        JOIN
    order_details o ON p.pizza_id = o.pizza_id;
```





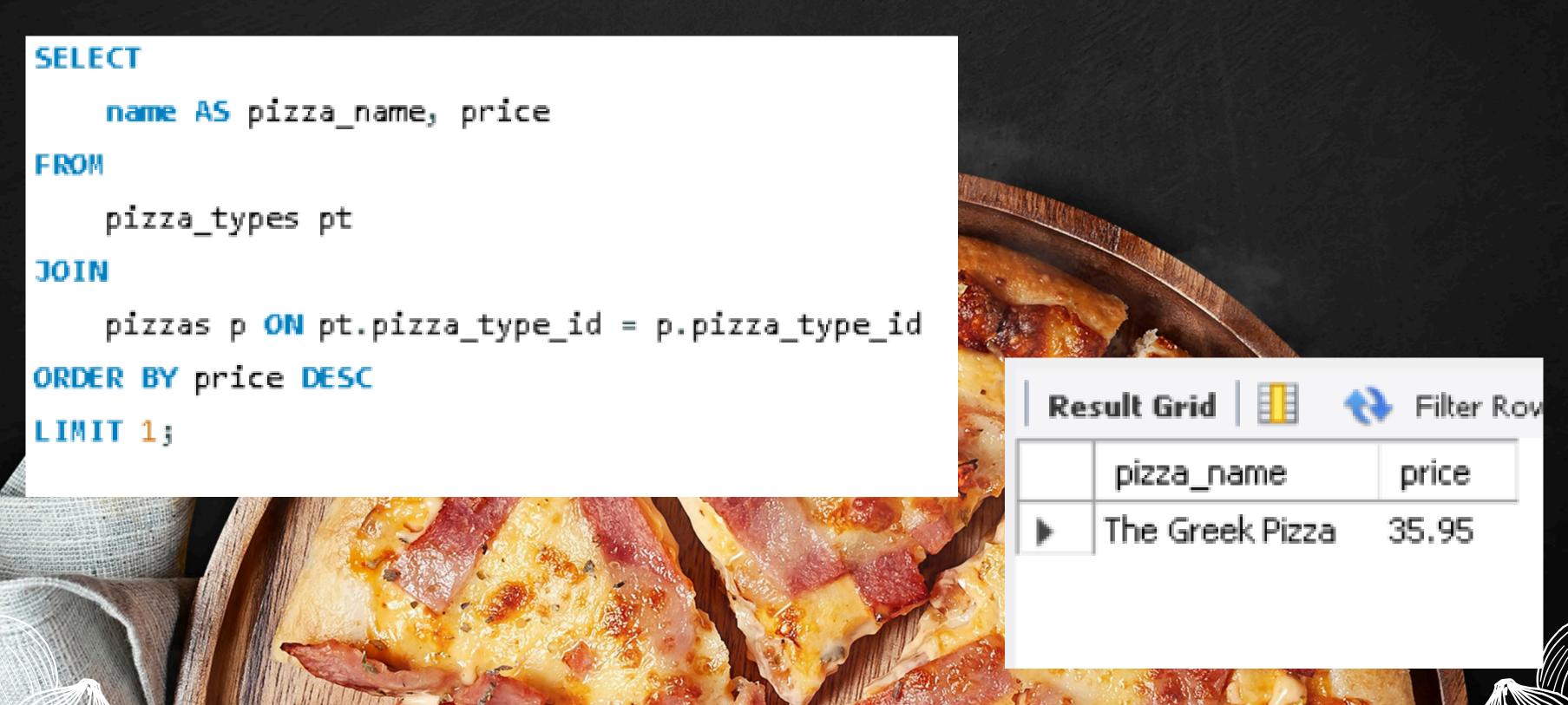


total_revenue

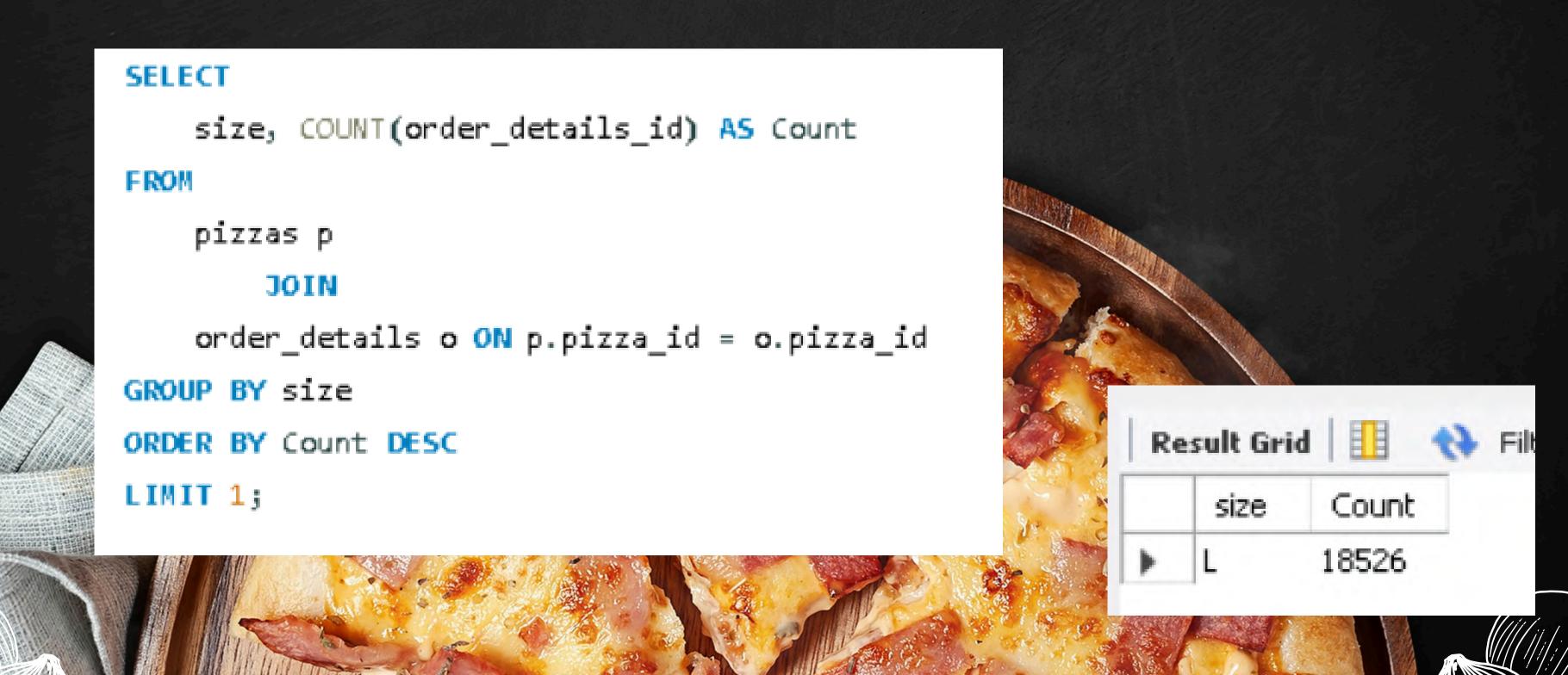


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IDENTIFY THE HIGHEST-PRICED PIZZA

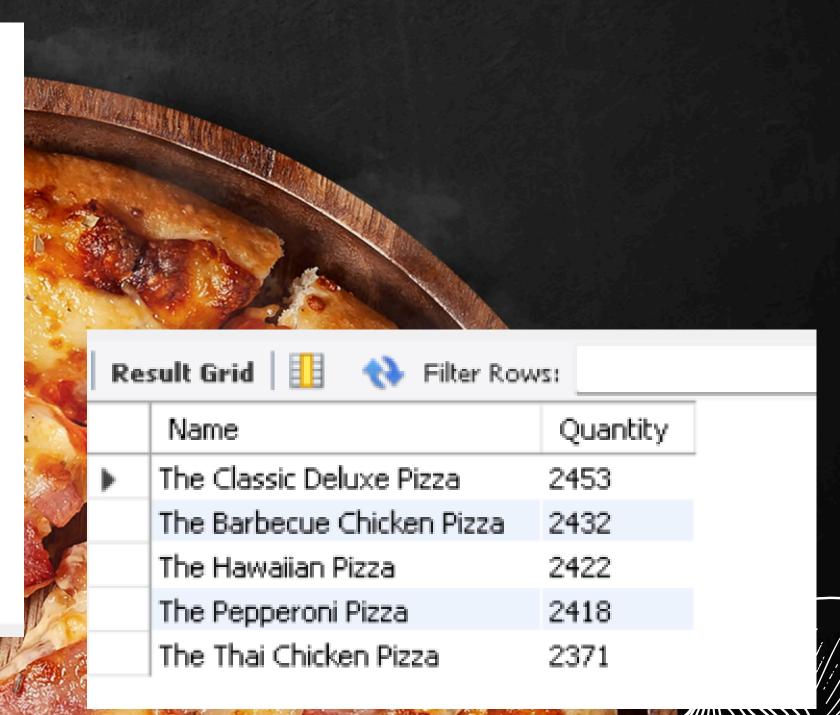


IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED



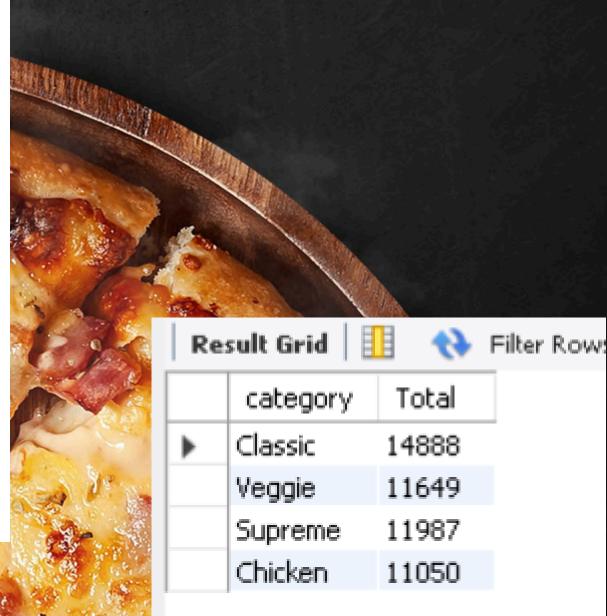
LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```
SELECT
    name AS Name, SUM(quantity) AS Quantity
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details or1 ON p.pizza_id = or1.pizza_id
GROUP BY Name
ORDER BY Quantity DESC
LIMIT 5;
```

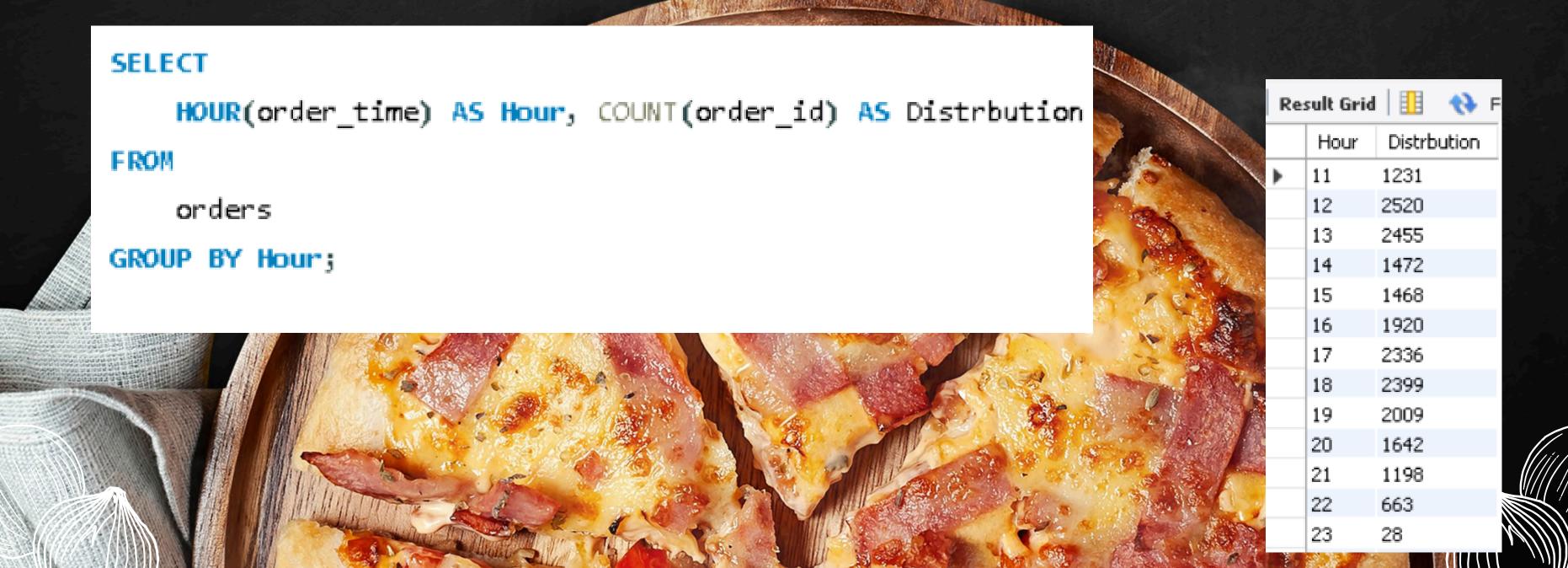


JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED

```
SELECT
    category, SUM(quantity) A5 Total
FROM
    pizzas p
        JOIN
    order_details o ON p.pizza_id = o.pizza_id
        JOIN
    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY category;
```



DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY





SELECT

category, COUNT(name) AS Dstribution

FROM

pizza_types

GROUP BY category;

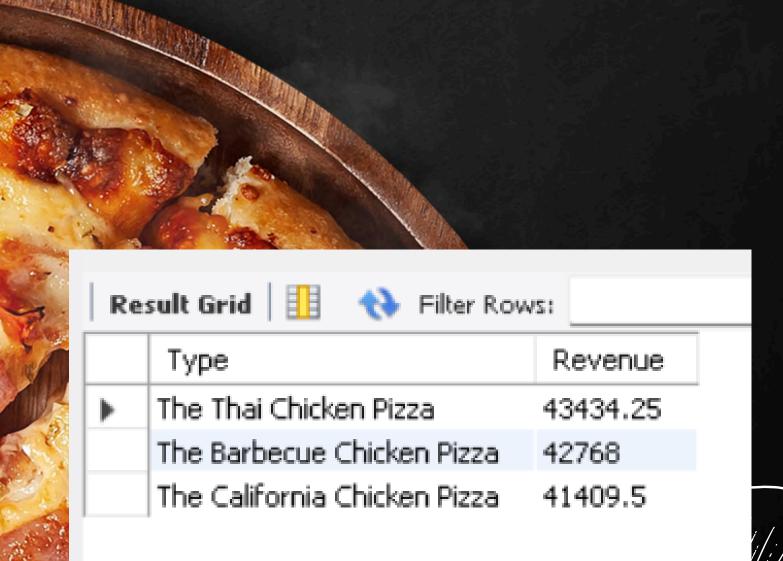
Re	sult Grid] 🙌 Filter R
	category	Dstribution
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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

```
SELECT ROUND(AVG(Average), ∅) A5 Average_Per_Day
FROM (
   SELECT order date AS Date, SUM(quantity) AS Average
   FROM orders o
   JOIN order_details od ON o.order_id = od.order_id
   GROUP BY order date
) daily_totals;
                                                   Average_Per_Day
                                                     138
```

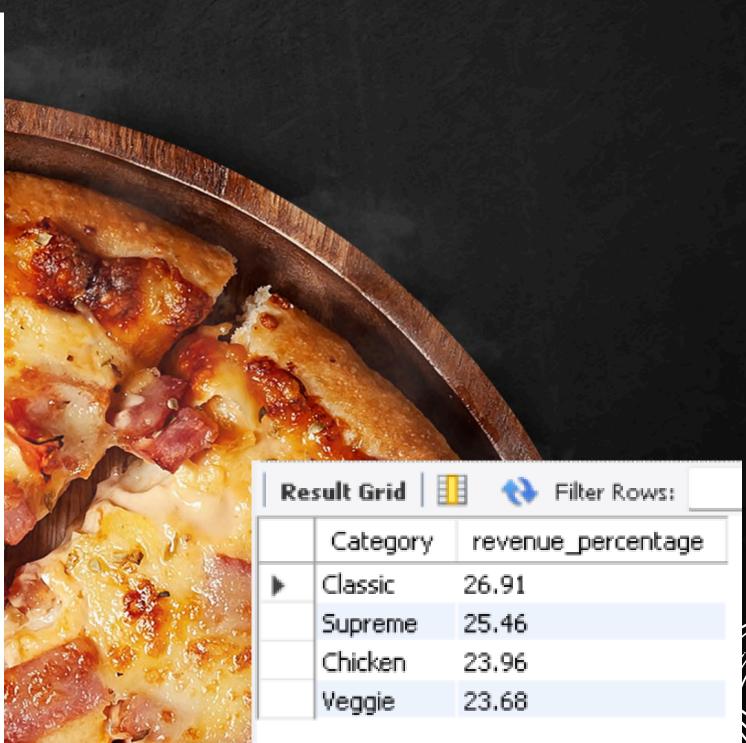
DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
SELECT
    name AS Type, SUM(price * quantity) AS Revenue
FROM
    pizza_types pt
        JOIN
    pizzas p ON p.pizza_type_id = pt.pizza_type_id
        JOIN
    order_details od ON p.pizza_id = od.pizza_id
GROUP BY Type
ORDER BY Revenue DESC
LIMIT 3;
```



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE

```
SELECT
    pt.category as Category, ROUND(
    SUM(od.quantity * p.price) * 100.0 / (
        SELECT SUM(od2.quantity * p2.price)
       FROM pizzas p2
       JOIN order_details od2 ON p2.pizza_id = od2.pizza_id
   ),2)
AS revenue_percentage
FROM
    pizza_types pt
JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
JOIN
    order_details od ON p.pizza_id = od.pizza_id
GROUP BY
   pt.category
ORDER BY
    revenue_percentage DESC;
```



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME

pizzas.pizza_id=order_details.pizza_id

group by order_date) as sales;



	Re	sult Grid 🛚 🔢	National Composition of the Comp	
		order_date	Cum_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	23990.3500000000002	
100		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	
5		100		,

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

```
select category, name, revenue 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
                                                                                                                                        Export:
                                                                                                           Filter Rows:
                                                                                            Result Grid
pizza_types.pizza_type_id=pizzas.pizza_type_id
                                                                                               category
                                                                                                                                revenue
group by pizza_types.category,pizza_types.name) as a) as b where rn<=3;</pre>
                                                                                                        The Thai Chicken Pizza
                                                                                               Chicken
                                                                                                                                43434.25
                                                                                               Chicken
                                                                                                        The Barbecue Chicken Pizza
                                                                                                                                42768
                                                                                                        The California Chicken Pizza
                                                                                               Chicken
                                                                                                                               41409.5
                                                                                                        The Classic Deluxe Pizza
                                                                                                                                38180.5
                                                                                               Classic
                                                                                                        The Hawaiian Pizza
                                                                                                                                32273.25
                                                                                               Classic
                                                                                                                               30161.75
                                                                                                        The Pepperoni Pizza
                                                                                               Classic
                                                                                                                               34831.25
                                                                                                        The Spicy Italian Pizza
                                                                                               Supreme
                                                                                                        The Italian Supreme Pizza
                                                                                                                               33476.75
                                                                                               Supreme
                                                                                                                               30940.5
                                                                                                        The Sicilian Pizza
                                                                                               Supreme
                                                                                                        The Four Cheese Pizza
                                                                                                                                32265.70000000065
                                                                                               Veggie:
```

The Mexicana Pizza

The Five Cheese Pizza

Veggie

Veggie

26780.75

26066.5







- My_portfolio
- in linkedin.com/in/fathima-s-309a00224

