





# ABOUT THIS PROJECT

The dataset used in this project simulates a real-world pizza sales scenario with multiple interrelated tables, enabling the use of advanced SQL concepts like joins, groupings, aggregate functions, and filtering to answer relevant business questions.

# DATASET OVERVIEW

1PIZZAS

- pizza\_id
- pizza\_type\_id
- size
- price

2 PIZZA\_TYPES

- pizza\_type\_id
- name
- category
- ingredients





- order\_id
- order\_date
- order\_time



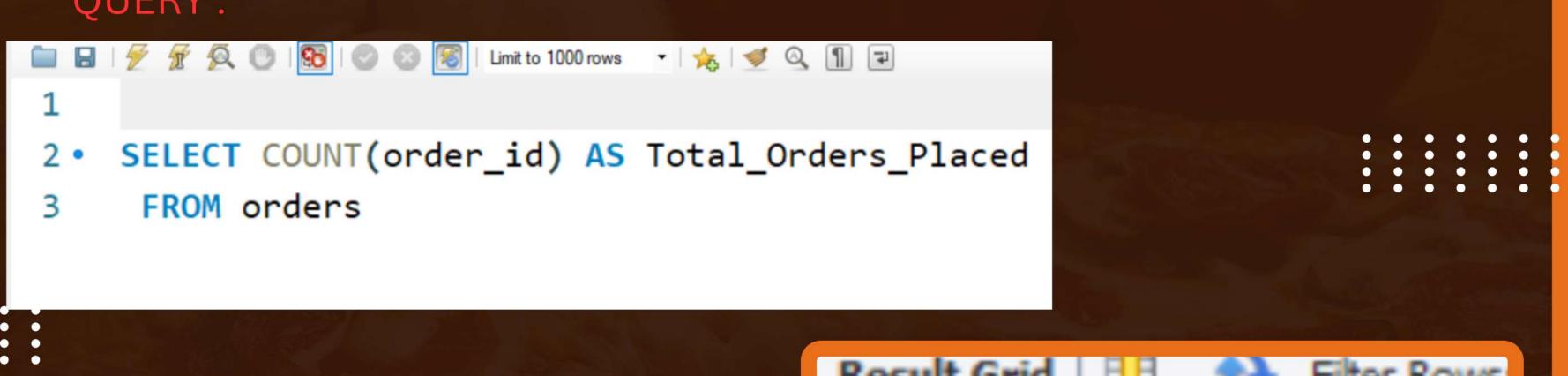


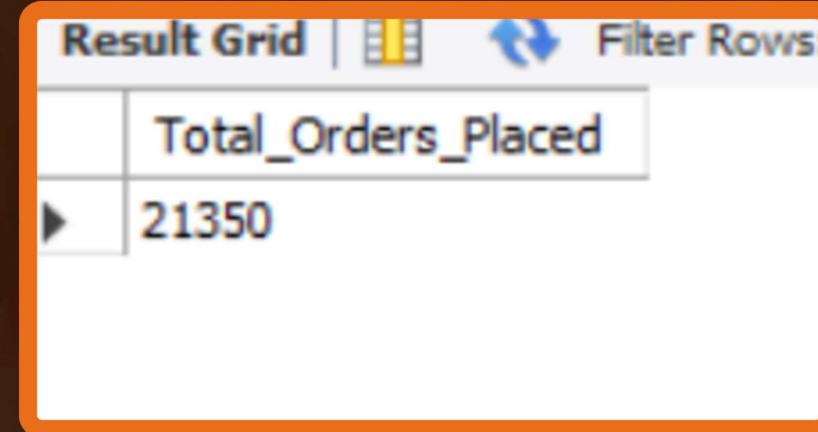
- order\_id
- pizza\_id
- quantity



# 1.RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

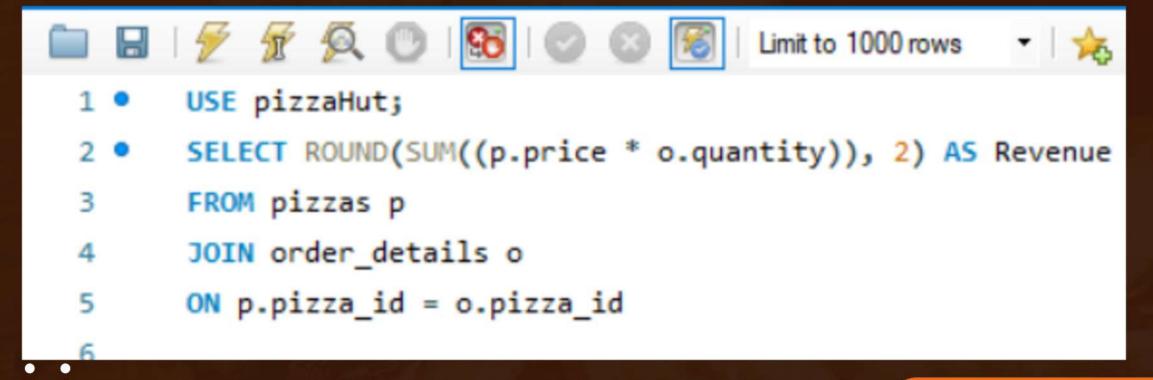
### QUERY:

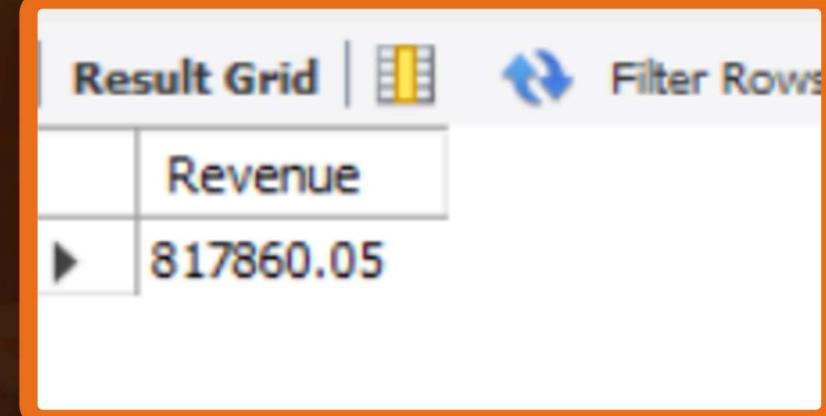




# 2. CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

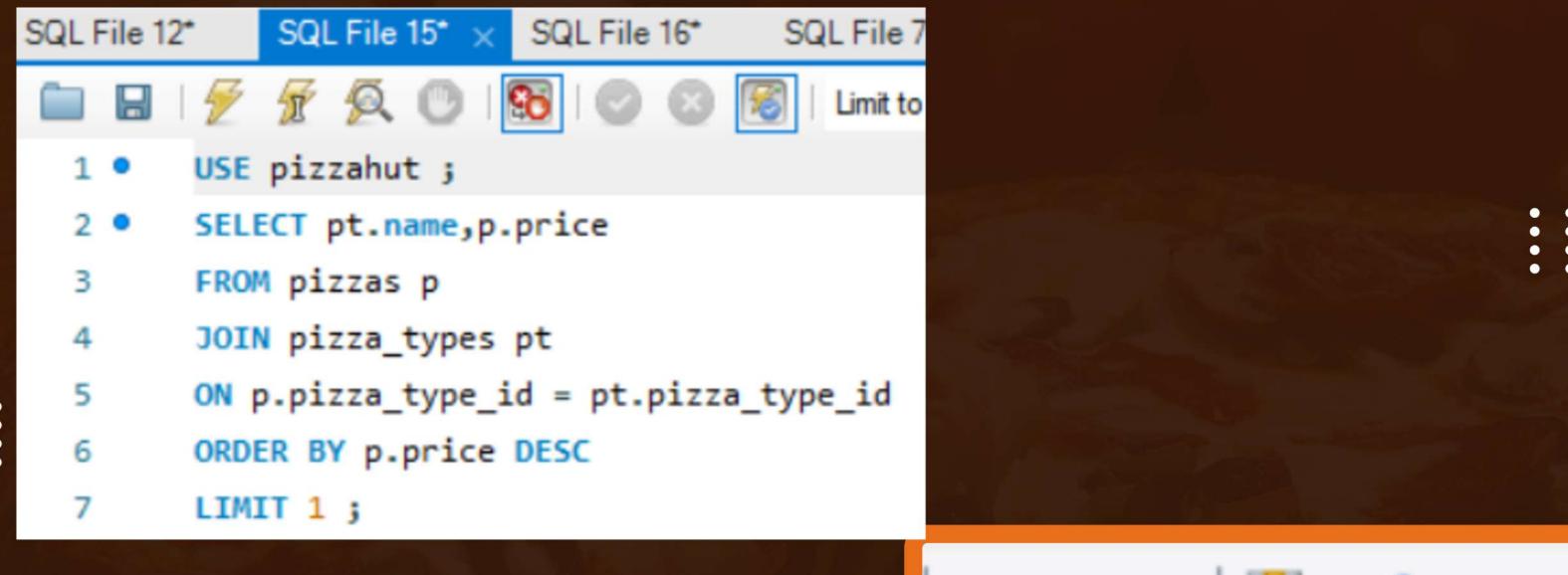
QUERY:

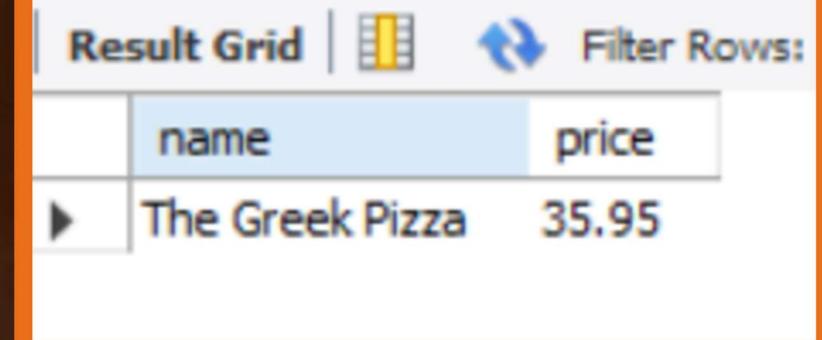




# 3. IDENTIFY THE HIGHEST-PRICED PIZZA.

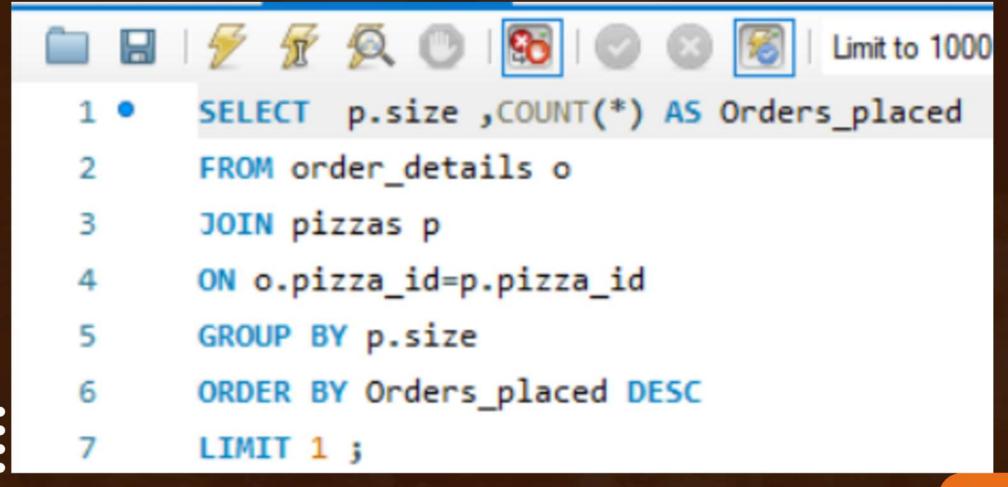
### QUERY:



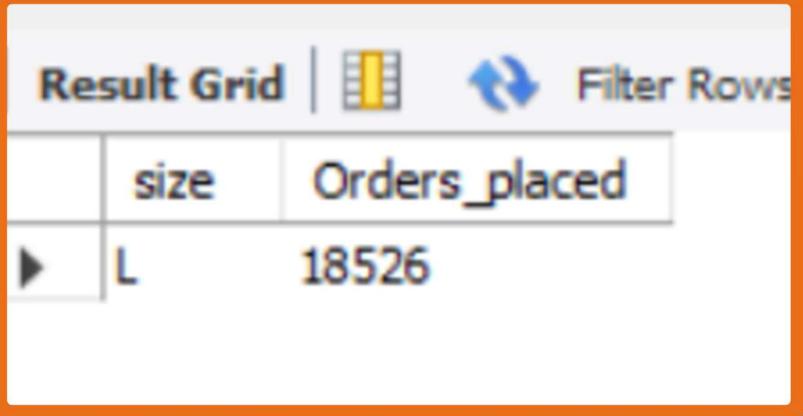


# 4. IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

### QUERY:







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

#### QUERY:

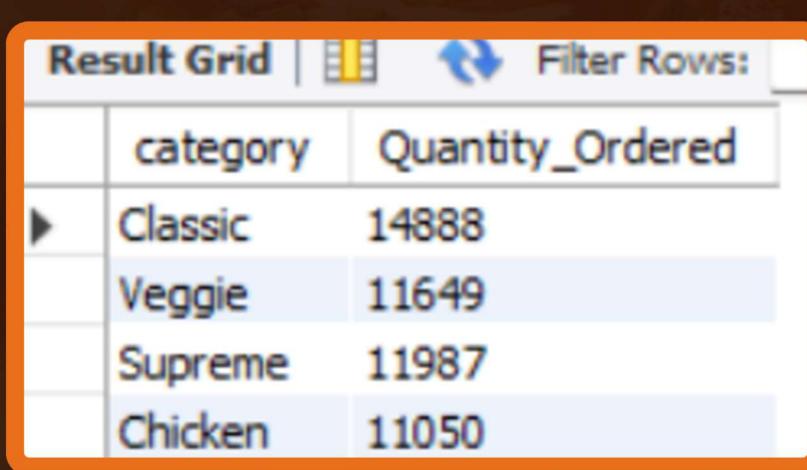
```
SELECT pt.name , COUNT(o.quantity) AS Quantity
FROM pizza_types pt
JOIN pizzas p
ON pt.pizza_type_id = p.pizza_type_id
JOIN order_details o
ON p.pizza_id=o.pizza_id
GROUP BY pt.name
ORDER BY Quantity DESC
                                               esult Grid
                                                                    Filter Rows:
LIMIT 5;
```

	name	Quantity
•	The Classic Deluxe Pizza	2416
	The Barbecue Chicken Pizza	2372
	The Hawaiian Pizza	2370
	The Pepperoni Pizza	2369
	The Thai Chicken Pizza	2315

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

### QUERY:

```
1 • SELECT pt.category , SUM(o.quantity) AS Quantity_Ordered
2 FROM order_details o
3 JOIN pizzas p
4 ON o.pizza_id = p.pizza_id
5 JOIN pizza_types pt
6 ON p.pizza_type_id= pt.pizza_type_id
7 GROUP BY pt.category ;
```



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

### QUERY:

```
SELECT HOUR(order_time) AS HOUR, COUNT(order_id) AS ORDERS_PLACED
```

- 2 FROM orders
- 3 GROUP BY HOUR(order\_time);





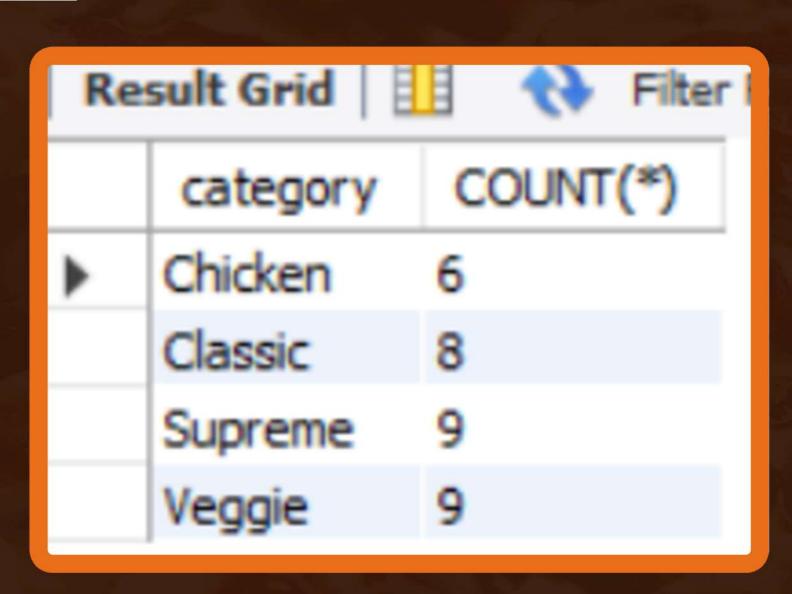
	HOUR	ORDERS_PLACED
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920

# 8. Join Relevant tables to find the category-wise distribution of Pizzas.

### QUERY:

```
1 • SELECT category , COUNT(*)
2 FROM pizza_types
3 GROUP BY category ;
```

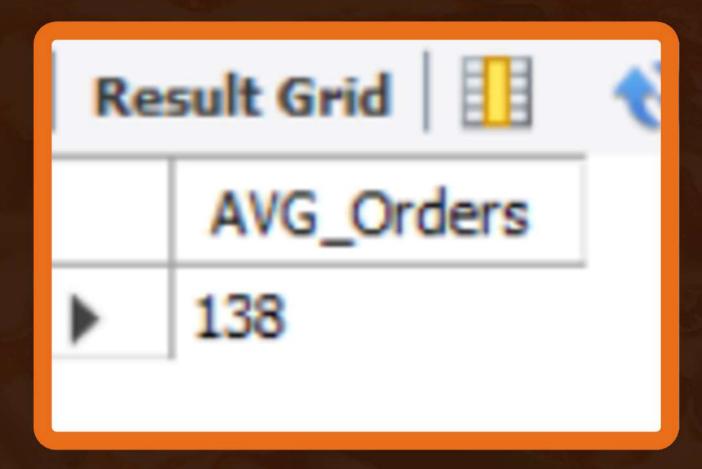




# 9. GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY. --

#### QUERY:





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

# QUERY:

```
SELECT pt.name ,SUM(p.price*od.quantity) AS REVENUE
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.name
ORDER BY REVENUE DESC
LIMIT 3 ;
```



Result Grid				
	name	REVENUE		
-	The Thai Chicken Pizza	43434.25		
	The Barbecue Chicken Pizza	42768		
	The California Chicken Pizza	41409.5		

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

#### QUERY:

```
SELECT Pizza_Type ,ROUND((Pizza_Revenue/SUM(Pizza_Revenue) OVER ()*100),2) AS Percentage
FROM

(SELECT pt.category AS Pizza_Type,SUM(p.price*od.quantity) AS Pizza_Revenue
FROM pizza_types pt

JOIN pizzas p

ON pt.pizza_type_id = p.pizza_type_id

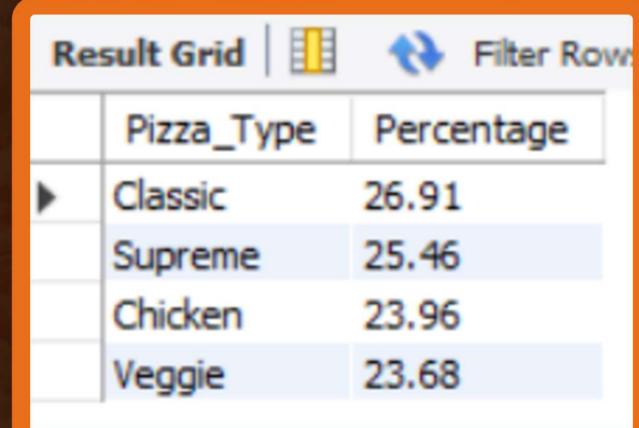
JOIN order_details od

N p.pizza_id = od.pizza_id

GROUP BY pt.category ) AS REVENUE_TABLE

ORDER BY Percentage DESC;
```





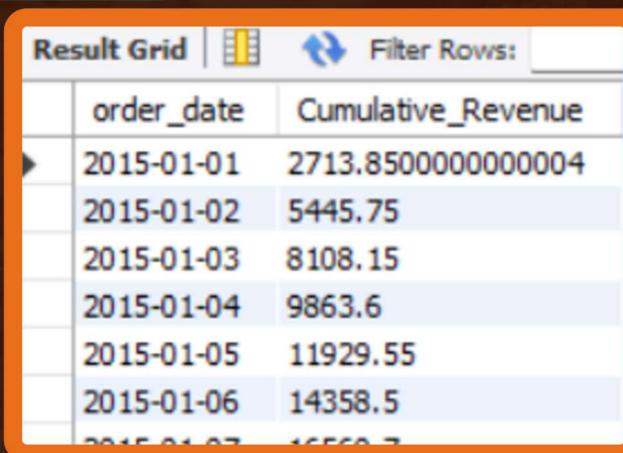
### 12. ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

#### QUERY:

```
SELECT order_date , SUM(revenue) OVER(ORDER BY order_date) AS Cumulative_Revenue
FROM

(SELECT o.order_date,
SUM(p.price*od.quantity) as Revenue
FROM orders o
JOIN order_details od
ON o.order_id = od.order_id
JOIN pizzas p
ON od.pizza_id = p.pizza_id
GROUP BY o.order_date) AS Sales
```

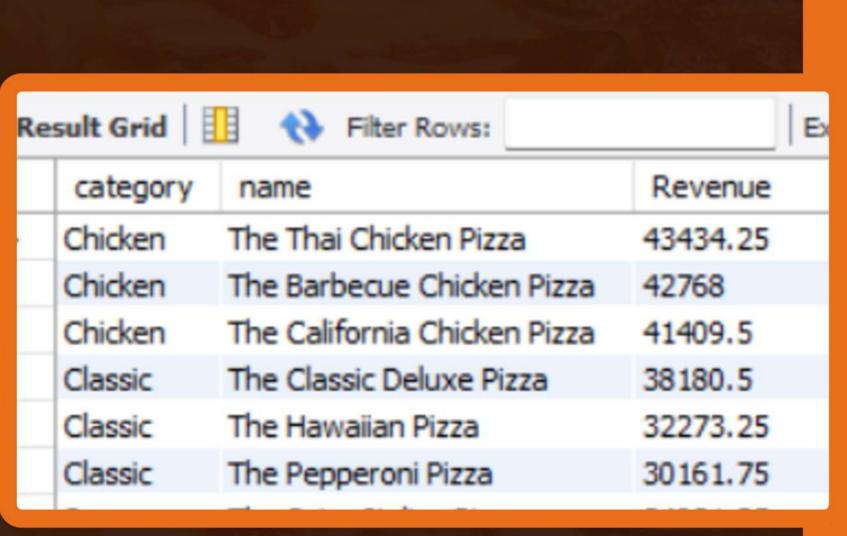




# 13. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.

#### QUERY:

```
SELECT category , name , Revenue
       FROM
       (SELECT category , name , Revenue,
       RANK() OVER(PARTITION BY category ORDER BY Revenue DESC) AS Ran
 5
       FROM
       (SELECT pt.category ,pt.name,
       SUM(p.price*od.quantity) as Revenue
       FROM pizza_types as pt
 8
       JOIN pizzas as p
 9
       ON pt.pizza_type_id=p.pizza_type_id
10
       JOIN order_details od
11
       ON p.pizza_id = od.pizza_id
12
       GROUP BY pt.category,pt.name) AS A)AS B
13
       WHERE Ran<=3;
14
```



# THANKYOU

ANY QUERIES PLEASE CONTACT: avantichinchone276@gmail.com