

#### PIZZA SALES SQL ANALYSIS

17 June, 2025

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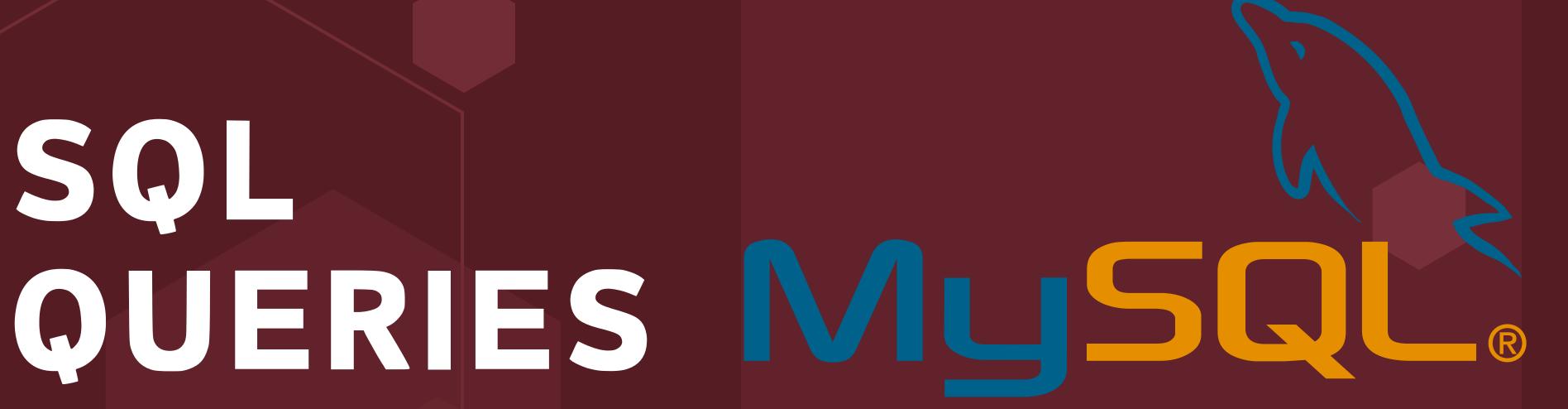




#### INTRODUCTION

This SQL project focuses on analyzing pizza sales data to uncover meaningful business insights. By using SQL queries on multiple related tables, it calculates total revenue, identifies best-selling pizzas, analyzes size and category preferences, and more. The project highlights practical skills in data extraction, joins, filtering, and aggregation, demonstrating how structured data can support business decision-making.

# SQL



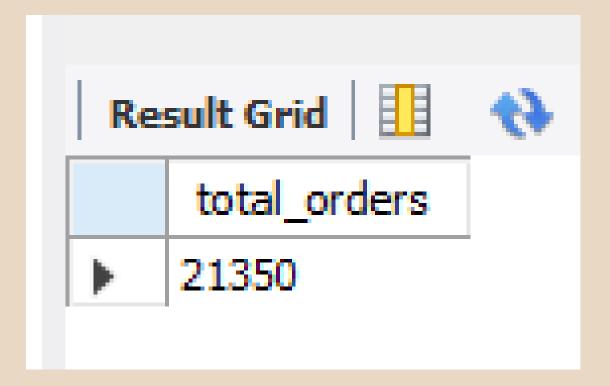
#### RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT

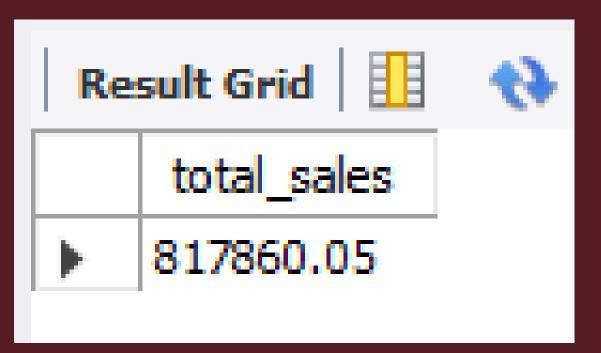
COUNT(order_id) AS total_orders

FROM

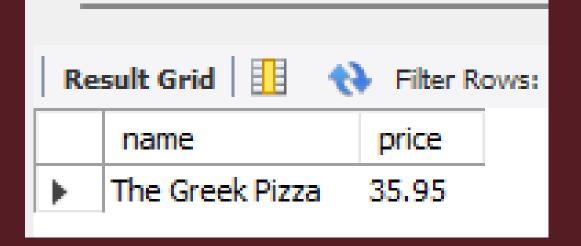
orders;
```



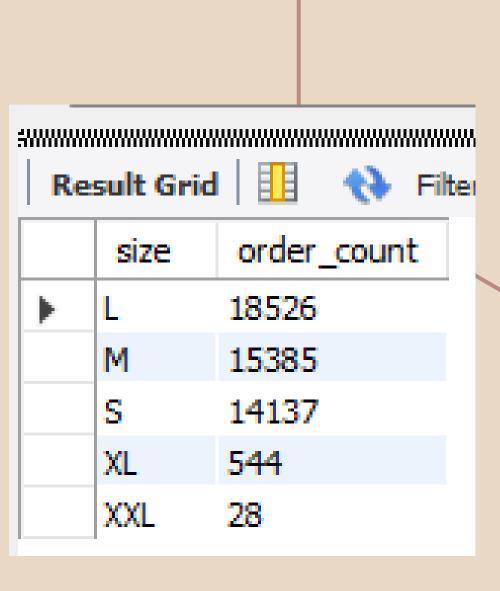
#### CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



# IDENTIFY THE HIGHEST-PRICED PIZZA.

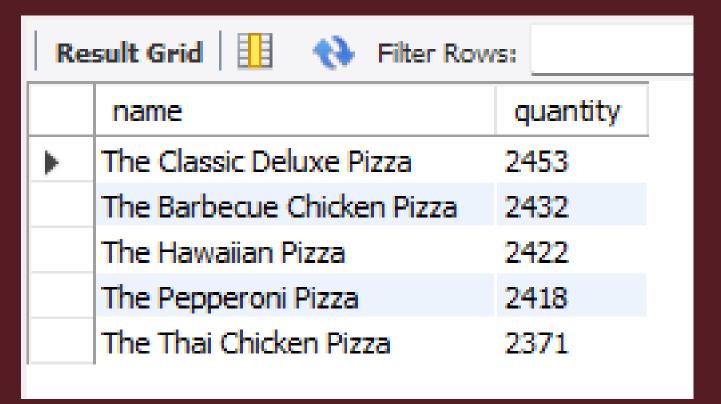


## IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED



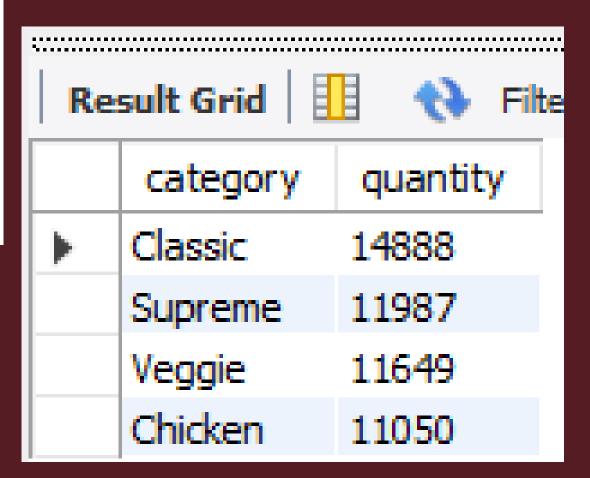
### LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```
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;
```



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

```
SELECT
    pizza_types.category,
    SUM(order details.quantity) A5 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.category
ORDER BY quantity DESC;
```



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

```
SELECT

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

FROM

orders

GROUP BY HOUR(order_time);
```

Result Grid 🔢 🙌 Filter Rows:				
	hour	order_count		
•	11	1231		
	12	2520		
	13	2455		
	14	1472		
	15	1468		
	16	1920		
	17	2336		
	18	2399		
	19	2009		
	20	1642		
	21	1198		
	22	663		
	23	28		
	10	8		
	9	1		
	-			

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

```
SELECT
```

category, COUNT(name)

FROM

pizza\_types

GROUP BY category

Result Grid				
	category	count(name)		
•	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(quantity), 0) AS avg_pizza_ordered_per_day

FROM

(SELECT

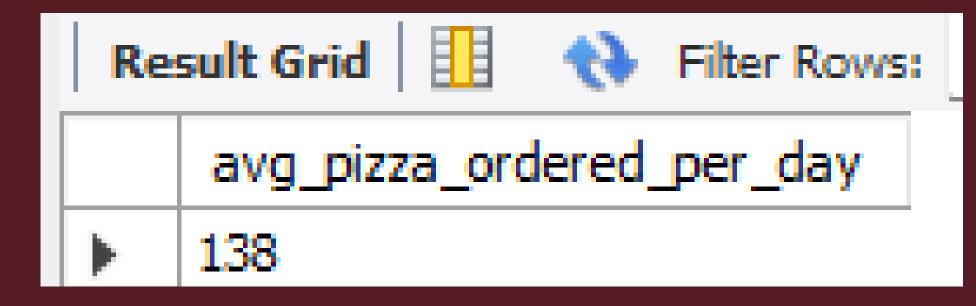
orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

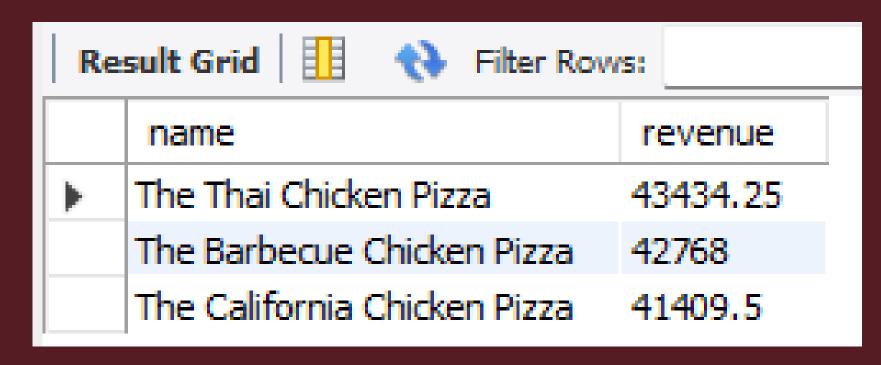
JOIN order_details ON orders.order_id = order_details.order_id

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



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

```
SELECT.
    pizza_types.name,
    SUM(order details.quantity * pizzas.price) AS revenue
FROM
    pizza types
        JOTN
    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 revenue DESC
LIMIT 3;
```



### 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) 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 pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOTN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

Result Grid			
	category	revenue	
•	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	

#### 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;
```

Re	sult Grid	Filter Rows:
	order_date	cum_revenue
<b>)</b>	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
	2015-01-19	43365.75000000001

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

```
select 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 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;
```

Result Grid				
	name	revenue		
<b>&gt;</b>	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		
	The Spicy Italian Pizza	34831.25		
	The Italian Supreme Pizza	33476.75		
	The Sicilian Pizza	30940.5		
	The Four Cheese Pizza	32265.70000000065		
	The Mexicana Pizza	26780.75		
	The Five Cheese Pizza	26066.5		

#### CONCLUSION

This SQL project highlights the power of data in driving smart business decisions. By writing and executing SQL queries, we were able to:

- Understand what products (pizzas) are performing best,
- Identify customer preferences in terms of size and category,
- Measure total revenue and order trends,
- And uncover valuable patterns across time and categories.

The project demonstrates that even simple databases, when queried effectively, can provide rich insights that help improve operations, marketing, and inventory planning. Overall, it emphasizes the importance of data-driven decision-making in today's business environment.

#### THANK YOU