

# PIZZA SALES ANALYSIS USING SQL

BY HEMLATA SAKLA

Hi, I'm Hemlata Sakla. For this project,
I worked on a pizza sales dataset using SQL. I explored the data
through different SQL queries to find out things like how much
revenue the business made, which pizza types were the most
popular, how sales varied by category, and how the revenue grew
over time.

It was a fun, hands-on way to apply SQL to a real-world business scenario and understand how data can help in making better decisions.

#### **Data Schemas**

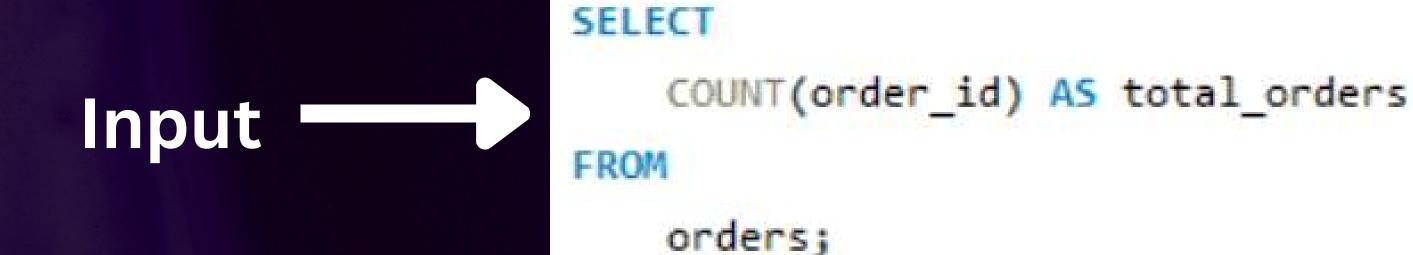
**Orders** orders date order\_id time Collapse ^

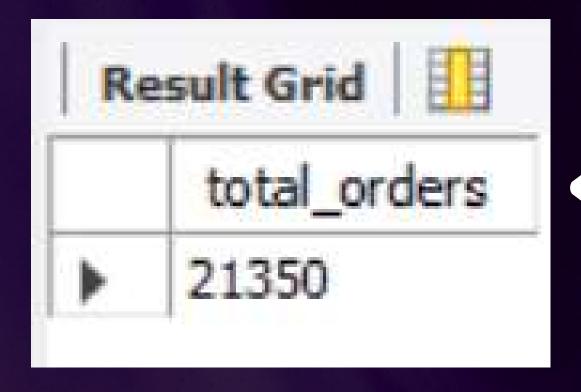
Orders\_details order\_details ∑ order\_details\_id ∑ order\_id pizza\_id ∑ quantity Collapse 🔨

Pizzas pizzas pizza\_id pizza\_type\_id price size Collapse ^

Pizza\_types pizza\_types category ingredients name pizza\_type\_id Collapse ^

# Retrieve the total number of orders placed.







# Calculate the total revenue generated from pizza sales.



```
SELECT

ROUND(SUM(Quantity * price), 2) A5 total_revenue

FROM

orders_details o

JOIN

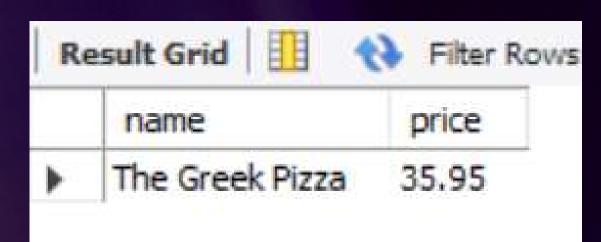
pizzas p ON p.pizza_id = o.pizza_id;
```



— Output

# Identify the highest-priced pizza.



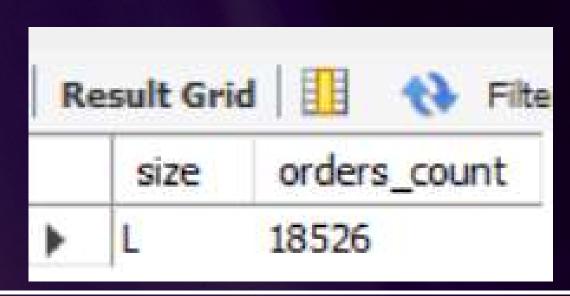


```
SELECT
   name, price
FROM
   pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```



# Identify the most common pizza size ordered.





```
SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) AS orders_count
FROM
    pizzas
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY orders count DESC
LIMIT 1;
```



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



	name	quantities
<b>&gt;</b>	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

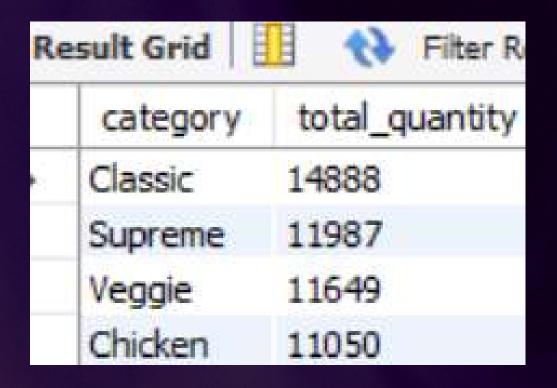
```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantities
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
     BY pizza_types.name
ORDER BY quantities DESC
LIMIT 5;
```



# Join the necessary tables to find the total quantity of each pizza

category ordered.

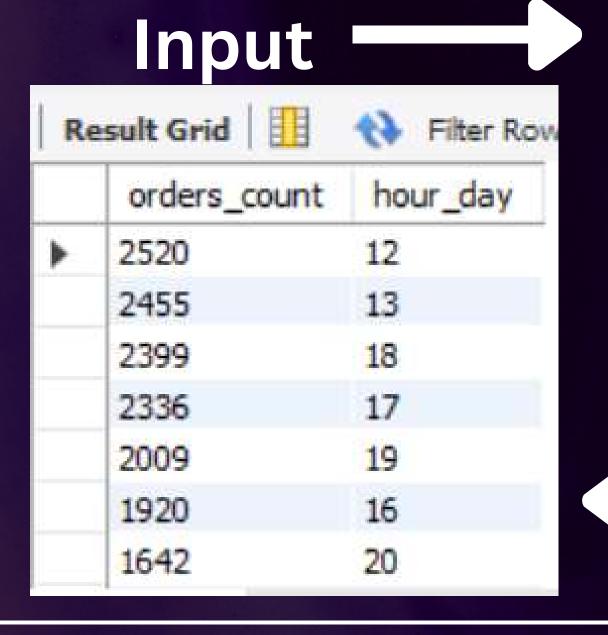




```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS total_quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY total quantity DESC;
```



# Determine the distribution of orders by hour of the day.



```
SELECT
    COUNT(order id) A5 orders count,
    HOUR(order time) AS hour day
FROM
    orders
GROUP BY hour day
ORDER BY orders count DESC;
```

— Output

Join relevant tables to find the category-wise distribution of

pizzas.

Input -



```
category, COUNT(name)

FROM

pizza_types

GROUP BY category;
```

— Output

Group the orders by date and calculate the average number of pizzas

ordered per day.

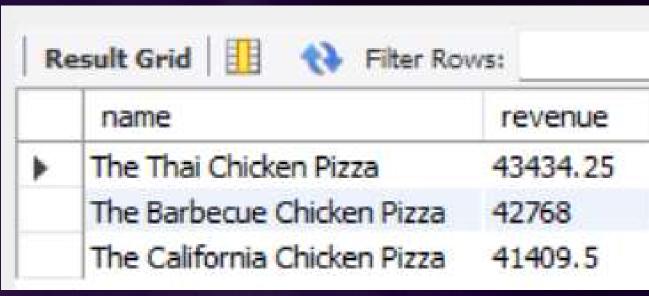
Input —





### Determine the top 3 most ordered pizza types based on revenue.





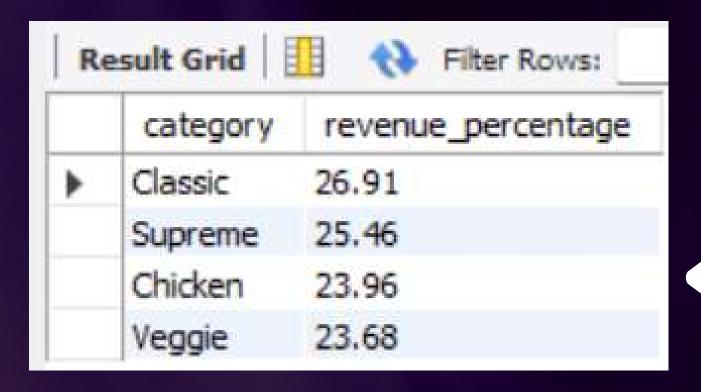
```
select name,
t.revenue
from
( select pizza_type_id, sum(quantity*price) as revenue,
row_number() over (order by sum(quantity*price) desc) as rnk
from orders details o
join pizzas p
on p.pizza_id = o.pizza_id
group by pizza_type_id)t
join pizza_types pt
on t.pizza_type_id=pt.pizza_type_id
where rnk <=3;
```



Calculate the percentage contribution of each pizza type to total

revenue.

Input —



```
pt.category,
    ROUND(SUM(o.quantity * p.price) / (SELECT
                    SUM(quantity * price)
                FROM
                    orders_details od
                        JOIN
                    pizzas p2 ON p2.pizza_id = od.pizza_id) * 100,
            AS revenue_percentage
FROM
    orders_details o
        JOIN
    pizzas p ON p.pizza_id = o.pizza_id
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
GROUP BY pt.category
ORDER BY revenue_percentage DESC;
```

# Analyze the cumulative revenue generated over time.



Result Grid			
	order_date	cumulative_revenue	
١	2015-01-01	2713.85	
	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	23990.35	
	2015-01-11	25862.65	
	2015-01-12	27781.7	
	2015-01-13	29831.3	

```
select order_date,
round(sum(sum(quantity*price))over (order by order_date),2) as cumulative_revenue
from orders o
join orders_details od
on o.order_id = od.order_id
join pizzas p
on p.pizza_id= od.pizza_id
group by order_date;
```



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

each pizza category.



```
Result Grid
                                                        Expor
                       Filter Rows:
    category
                                                       rnk
               name
                                          revenue
   Chicken
               The Thai Chicken Pizza
                                         43434.25
               The Classic Deluxe Pizza
                                         38180.5
   Classic
               The Spicy Italian Pizza
                                          34831.25
   Supreme
```

```
select category, name, revenue, rnk
from
(select category, name, revenue,
rank() over (partition by category order by revenue desc ) as rnk
from (select name,
category,
 sum(quantity*price) as revenue
from pizza types pt
join pizzas p
on p.pizza_type_id= pt.pizza_type_id
join orders_details od
on p.pizza_id= od.pizza_id
group by category , name) as t) as b
where rnk =1
limit 3;
```



# Thank You for Watching!

- This MySQL project has been an exciting ride!
- I got to play around with real data, write meaningful SQL queries, and see how even simple logic can bring powerful results.
- The screenshots and outputs you saw that's all part of the hands-on work I enjoyed doing.
- Honestly, it wasn't just about writing queries it was about understanding data better, thinking logically, and having fun along the way!
- I'm grateful for what I've learned so far and this is just the beginning.
- Excited to explore more, improve more, and take my database skills to the next level!