

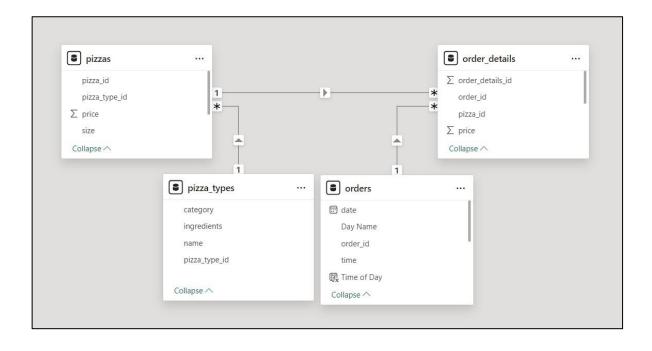
Hello Everyone

My name is Julia Emma, and I have developed a MySQL project in which I utilized MySQL Server Management Studio to analyze pizza sales data. This analysis is based on four datasets that provide valuable insights into various aspects of pizza sales performance. To uncover these insights, I addressed 13 key questions, which helped in understanding sales trends, customer behavior, and overall business performance.



Schema





All Questions



Basic:

Retrieve the total number of orders placed.

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.

Advanced:

Calculate the percentage contribution of each pizza type to total revenue.

Analyze the cumulative revenue generated over time.

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

Intermediate:

Join the necessary tables to find the total quantity of each pizza category ordered.

Determine the distribution of orders by hour of the day.

Join relevant tables to find the category-wise distribution of pizzas.

Group the orders by date and calculate the average number of pizzas ordered per day.

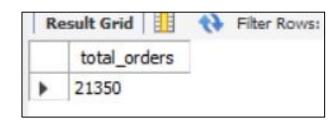
Determine the top 3 most ordered pizza types based on revenue.



Retrieve the total number of orders placed.

select count(order_id) as total_orders from orders;

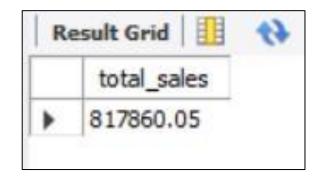




Calculate the total revenue generated from pizza sales



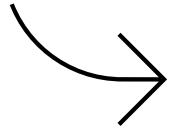


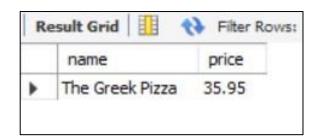




Identify the highest-priced pizza



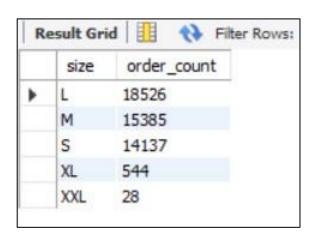






Identify the most common pizza size ordered







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

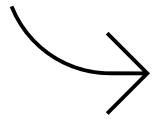


```
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
FROM

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;
```



The Classic Deluxe Pizza 2453 The Barbecue Chicken Pizza 2432 The Hawaiian Pizza 2422 The Pepperoni Pizza 2418 The Thai Chicken Pizza 2371		name	quantity
The Hawaiian Pizza 2422 The Pepperoni Pizza 2418	•	The Classic Deluxe Pizza	2453
The Pepperoni Pizza 2418		The Barbecue Chicken Pizza	2432
		The Hawaiian Pizza	2422
The Thai Chicken Pizza 2371		The Pepperoni Pizza	2418
		The Thai Chicken Pizza	2371



Join the necessary tables to find the total quantity of each pizza category ordered.

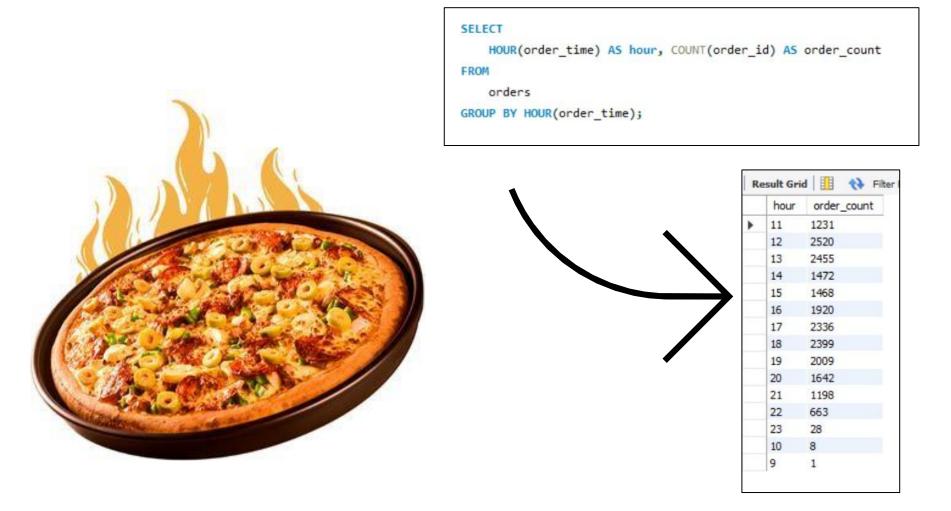




	1 .		
	category	quantity	
١	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	



Determine the distribution of orders by hour of the day.





Join relevant tables to find the category-wise distribution of pizzas.





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

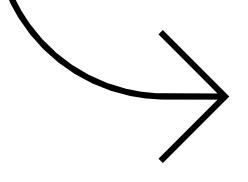
orders.order_date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

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



	round(avg(quantity),0)	
•	138	



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

```
SELECT

pizza_types.name,

ROUND(SUM(order_details.quantity * pizzas.price),

0) AS revenue

FROM

pizza_types

JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id

JOIN

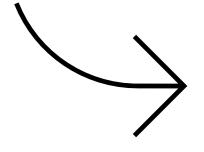
order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.name

ORDER BY revenue DESC

LIMIT 3;
```





	name	revenue
•	The Thai Chicken Pizza	43434
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41410



Calculate the percentage contribution of each pizza type to total revenue



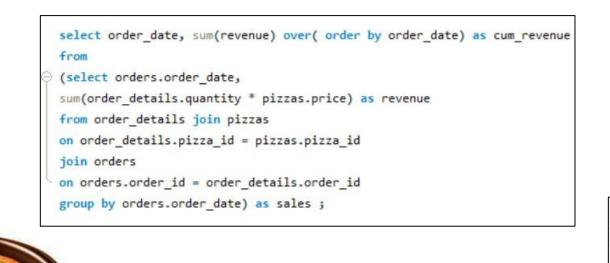
```
SELECT
   pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.quantity * pizzas.price),
                               2) AS total_sales
                    order_details
                    pizzas ON pizzas.pizza_id = order_details.pizza_id) * 100,
            2) AS revenue
   pizza_types
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

R	esult Grid	II 🛟 Filt
	category	revenue
	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68





Analyze the cumulative revenue generated over time





	order_date	cum_revenue
•	2015-01-01	2713.85000000000004
	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	32358.7000000000004
	2015-01-15	34343.500000000001



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
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category, pizza_types.name) as a) as b
where rn <=3;</pre>
```



	name	revenue
Þ	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

Enjoy some Pizza

