

PIZZA

S A L E S A N A L Y S I S







PROJECT DESCRIPTION

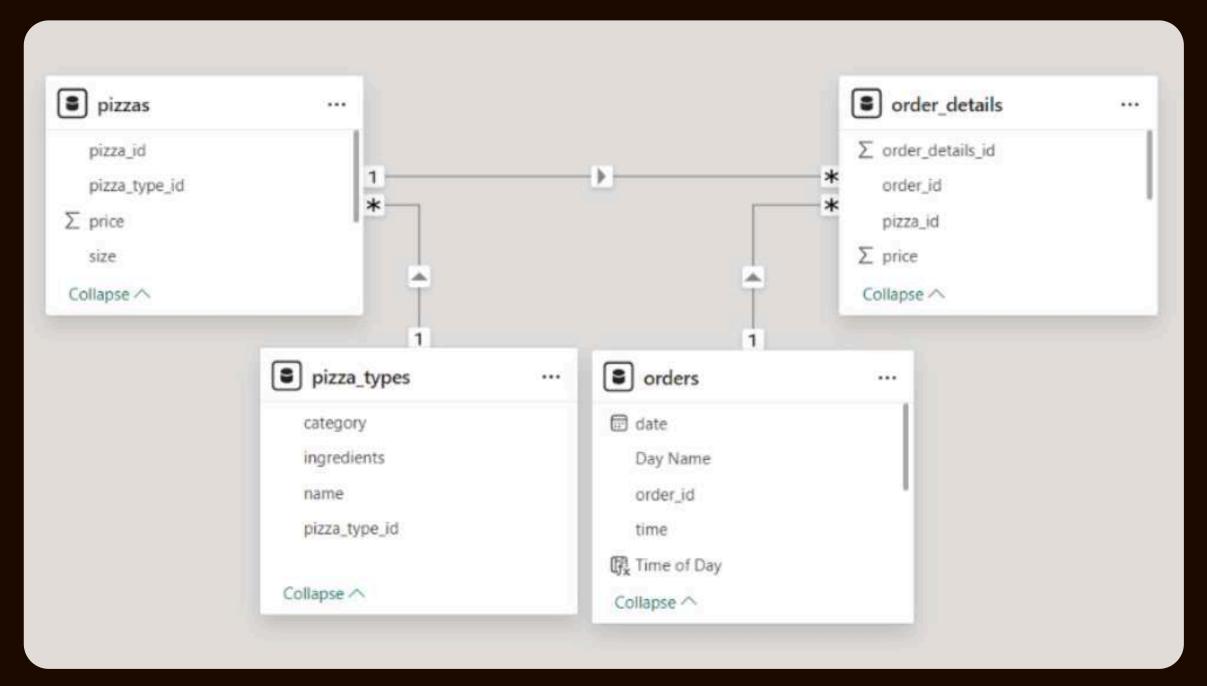
Hello Everyone,

I'm Komal, and I'm excited to share my MySQL project focused on pizza sales analysis. Using MySQL Server Management Studio, I've explored detailed analysis with the help of comprehensive datasets. This project addresses 13 crucial questions to uncover key insights about pizza sales, from understanding customer preferences to identifying peak sales times.

Through this analysis, I've been able to optimize inventory management, enhance overall business performance, and gain a thorough understanding of sales trends and customer behavior. I hope you find this project both informative and engaging, as it provides a deep dive into the fascinating world of pizza sales. Enjoy exploring the insights I've uncovered! ***



DATA MODEL







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.

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.

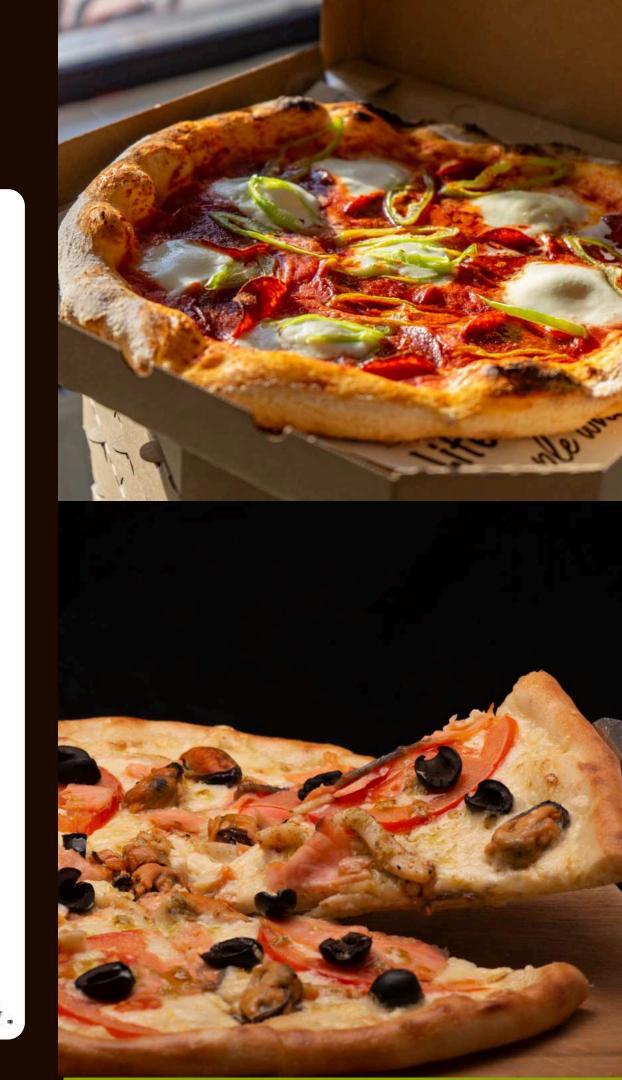
Determine the top 3 most ordered pizza types based on revenue.

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.









Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) AS Total_Orders

FROM

orders;
```

Total_Orders

> 21350







Calculate the total revenue generated from pizza sales.

```
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
```

Total_Sales

▶ 817860.05







Identify the highest-priced pizza.

	name	price
>	The Greek Pizza	35.95

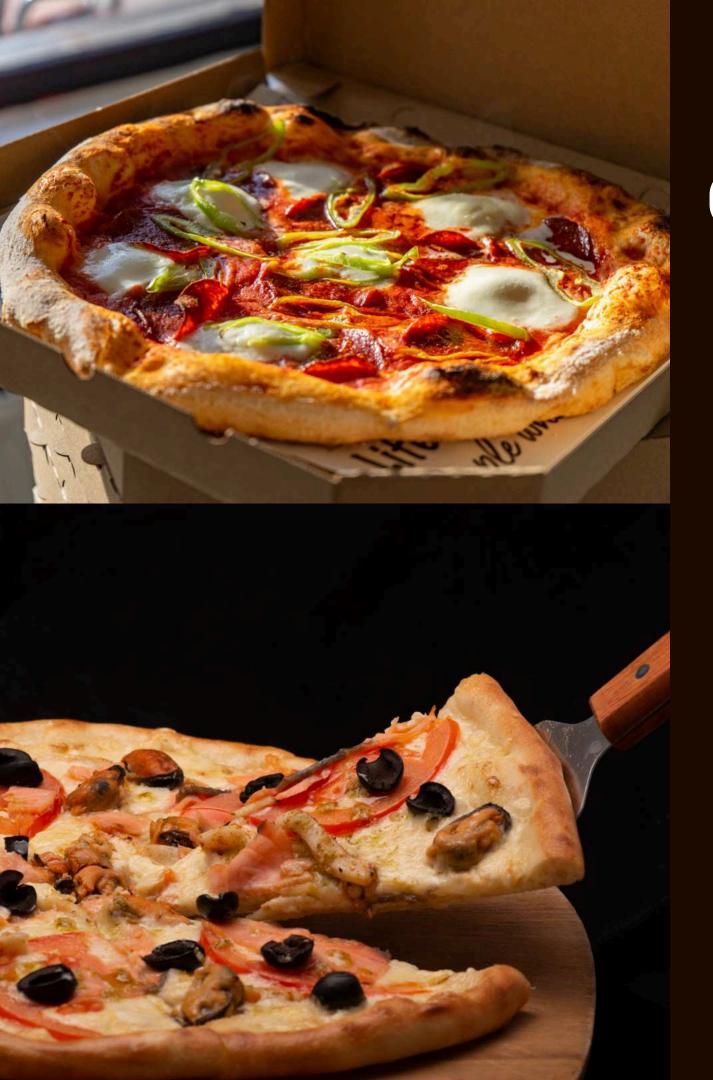






Identify the most common pizza size ordered.

size	order_count
L	18526
M	15385
S	14137
XL	544
XXL	28
	size L M S XL XXL





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;
```

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







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

```
SELECT
    pizza_types.category,
    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.category
ORDER BY quantity DESC;
```

	category	quantity
>	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050







Determine the distribution of orders by hour of the day.

SELECT

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

FROM

orders

GROUP BY HOUR(order_time);

	H H127	4 4 5
	hours	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;
```

	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;
```

avg_pizza_ordered_per_day

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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
        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	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5







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
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```

	category	revenue
Þ	Classic	26,91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

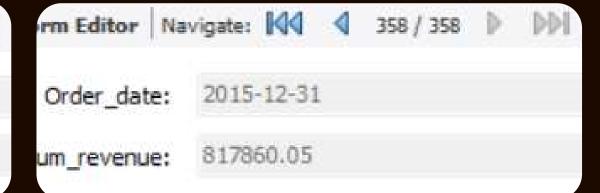




Analyze the cumulative revenue generated over time.

```
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;
```







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

```
(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;</pre>
```

select name, revenue from

	name	revenue
•	The Thai Chicken Pizza	43434,25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5
	The Classic Deluxe Pizza	38 180.5
	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



THANKYOU

