

By Dur gesh Agr awal

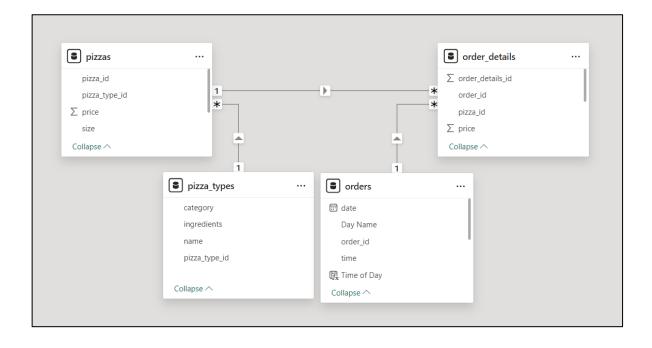
### Hello Everyone

My name is Durgesh Agrawal 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.

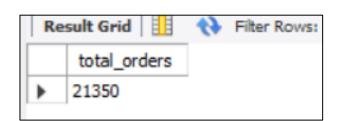
Determine the top 3 most ordered pizza types based on revenue.



Retrieve the total number of orders placed.

select count(order\_id) as total\_orders from orders;

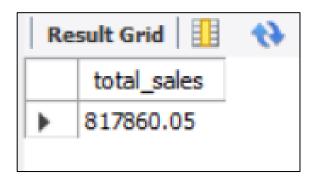






# Calculate the total revenue generated from pizza sales

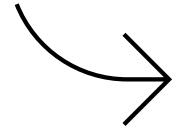






## Identify the highest-priced pizza



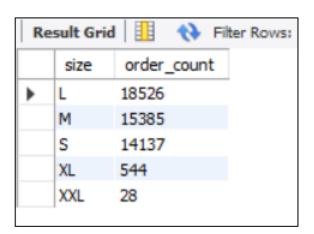


Re	esult Grid 🔢 🤌	Filter Rows:
	name	price
•	The Greek Pizza	35.95



## Identify the most common pizza size ordered



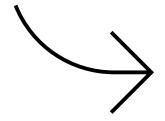




#### List the top 5 most ordered pizza types along with their quantities



```
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;
```



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;
```



Re	esult Grid	Filter Rows:
	category	quantity
•	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.





Filter Rows:

## 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.

```
SELECT

pizza_types.name,

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

②) AS revenue

FROM

pizza_types

JOIN

pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id

JOIN

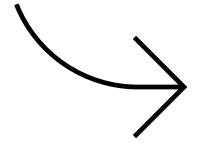
order_details ON order_details.pizza_id = pizzas.pizza_id

GROUP BY pizza_types.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



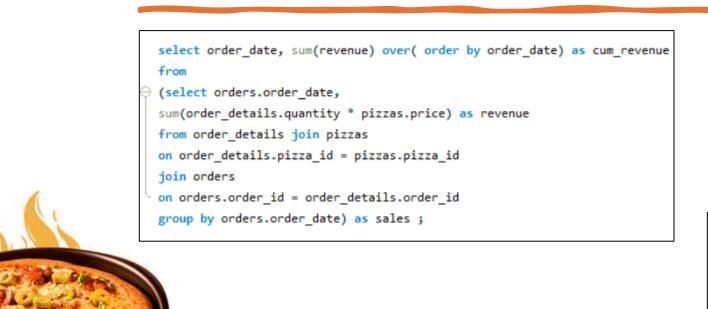
```
SELECT
   pizza_types.category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(order_details.quantity * pizzas.price),
                               2) AS total_sales
                    order_details
                    pizzas ON pizzas.pizza_id = order_details.pizza_id) * 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;
```

Re	esult Grid	Filter Rows
	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68





#### Analyze the cumulative revenue generated over time





Re	sult Grid	Filter Rows:
	order_date	cum_revenue
•	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



## 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;</pre>
```



	name	revenue
•	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

## Thank You

