

## PIZZA SALES ANALYSIS USING MYSQL



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**Tool Used:** 

MySQL

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#### **Introduction & Dataset Overview**



#### Introduction

This project focuses on analyzing pizza sales data using MySQL.

The goal is to extract key business insights such as total revenue, top-selling pizzas, customer preferences, and monthly trends. This helps in understanding business performance and making data-driven decisions.

#### **Dataset Description**

Column Name	Description
order_id	Unique ID for each customer order
order_date	Date and time when the order was placed
pizza_name	Name of the pizza
quantity	Number of pizzas sold
price	Price per pizza

## Business Questions Solved Using SQL

1) RetriEve the total number of orders placed.

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



#### 2) Calculate the Total Revenue Generated from Pizza Sales.







#### 3) Identify the highest-priced pizza.

```
SELECT pizza_types.name, pizzas.price
FROM pizza_types JOIN pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
order by pizzas.price desc limit 1;
```

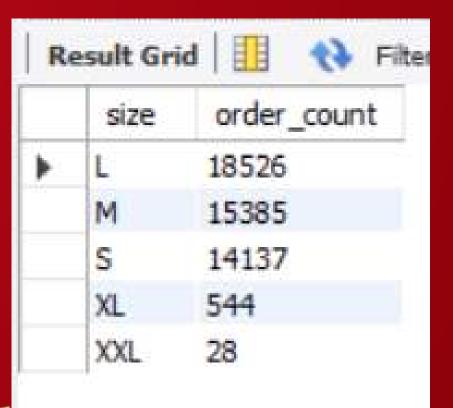
Re	esult Grid	> Filter Ro
	name	price
•	The Greek Pizza	35.95



#### 4) Identify the most Frequently Ordered Pizza Size.

```
SELECT quantity, count(order_details_id)
FROM order_details GROUP BY quantity;
SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```





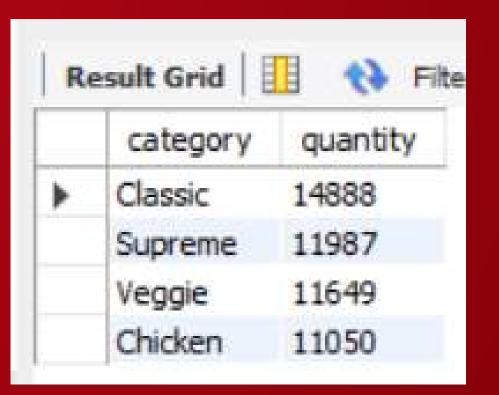
#### 5) List the Top 5 Most Ordered Pizza Types along with their quantities.

```
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;
```



# 6) 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;
```



### 7) 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);
```

Re	esult Gri	d   H Rows:
	hour	order_count
<b>&gt;</b>	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399

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

SELECT category, count(name) from pizza\_types
group by category

10.1%	esult Grid	Filter
	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.



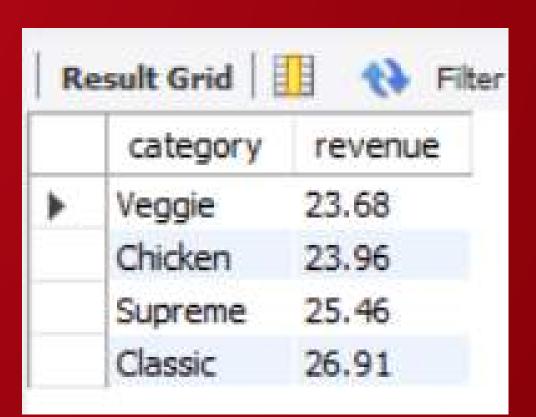
#### 10) Determine the top 3 most ordered pizza types based on revenue.

```
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;
```

R	esult Grid H Filter Ro	WS:
	name	revenue
۲	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

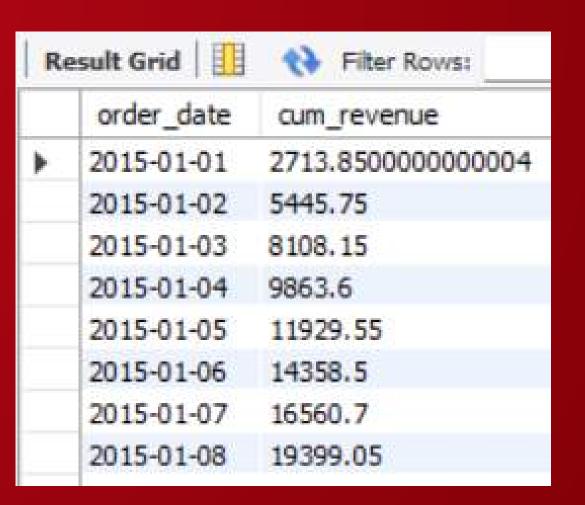
### 11) Calculate the percentage contribution of each pizza type to total revenue.

```
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 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 revenue desc;
```



### 12) 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;
```



# 13) 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;
```

	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





PIZZA WITH GAURAV

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