



[HTTPS://GITHUB.COM/PRAFUL23-CODER](https://github.com/Praful23-Coder)

SQL-POWERED ANALYTICS WITH PIZZABYTES





Welcome To Our **pizzabytes**

"We used the 'Pizza' dataset in SQL to explore and analyze key aspects of a pizza business.

The dataset included four tables: pizzas, pizza_types, orders, and order_details.

Introduction

Objective: Analyze pizza sales data to derive insights on orders, revenue, and customer preferences.

Tool: MySQL for database management and querying

Data Scope: Orders, pizza types, sizes, and revenue metrics.

Purpose: Understand sales trends, popular pizzas, and business performance.



List of Pizza name with types



```
-- list of pizza name with types
select name, pizza_type_id,
(select count(distinct pizza_type_id) from pizza_types) as total_types
from pizza_types
group by name, pizza_type_id
```

The Prosciutto and Arugula ...	prsc_argla	32
The Sicilian Pizza	sicilian	32
The Soppressata Pizza	soppressata	32
The Spicy Italian Pizza	spicy_ital	32
The Spinach Supreme Pizza	spinach_supr	32
The Five Cheese Pizza	five_cheese	32
The Four Cheese Pizza	four_cheese	32
The Green Garden Pizza	green_garden	32
The Italian Vegetables Pizza	ital_veggie	32
The Mediterranean Pizza	mediterraneo	32
The Mexicana Pizza	mexicana	32
The Spinach Pesto Pizza	spin_pesto	32
The Spinach and Feta Pizza	spinach_fet	32
► The Vegetables + Vegetable...	veggie_veg	32

name	pizza_type_id	total_types
The Barbecue Chicken Pizza	bbq_ckn	32
The California Chicken Pizza	cali_ckn	32
The Chicken Alfredo Pizza	ckn_alfredo	32
The Chicken Pesto Pizza	ckn_pesto	32
The Southwest Chicken Pizza	southw_ckn	32
The Thai Chicken Pizza	thai_ckn	32
The Big Meat Pizza	big_meat	32
The Classic Deluxe Pizza	classic_dlx	32
The Hawaiian Pizza	hawaiian	32
The Italian Capocollo Pizza	ital_cpdlo	32
The Napolitana Pizza	napolitana	32
The Pepperoni, Mushroom, ...	pep_msh_pep	32
The Pepperoni Pizza	pepperoni	32
The Greek Pizza	the_greek	32
The Brie Carre Pizza	brie_carre	32
The Calabrese Pizza	calabrese	32
The Italian Supreme Pizza	ital_supr	32
The Pepper Salami Pizza	peppr_salami	32
The Prosciutto and Arugula ...	prsc_argla	32
The Sicilian Pizza	sicilian	32
The Sonnepressata Pizza	sonnepressata	32

Size of all pizza's

available of size for each pizza

```
select distinct size  
from pizzas  
order by size
```

Result Grid	
	size
▶	L
	M
	S
	XL
	XXL

Double Extra
large



Medium



Extra Large



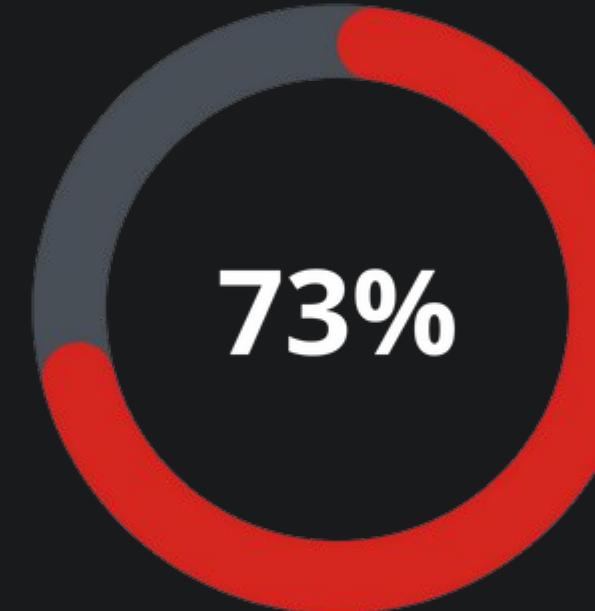
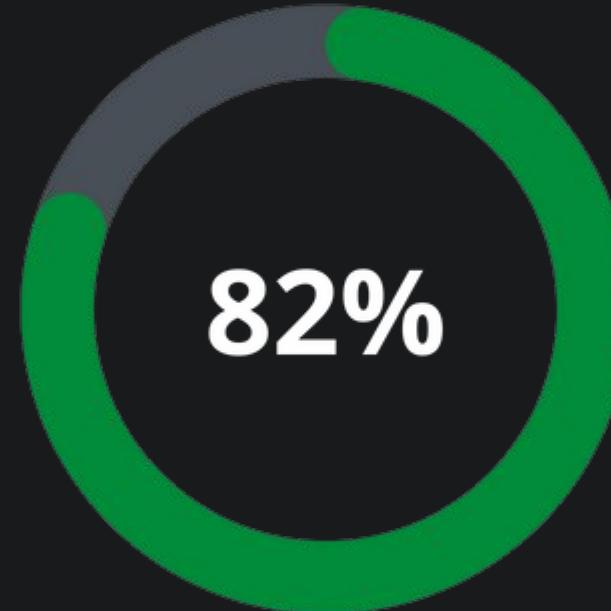
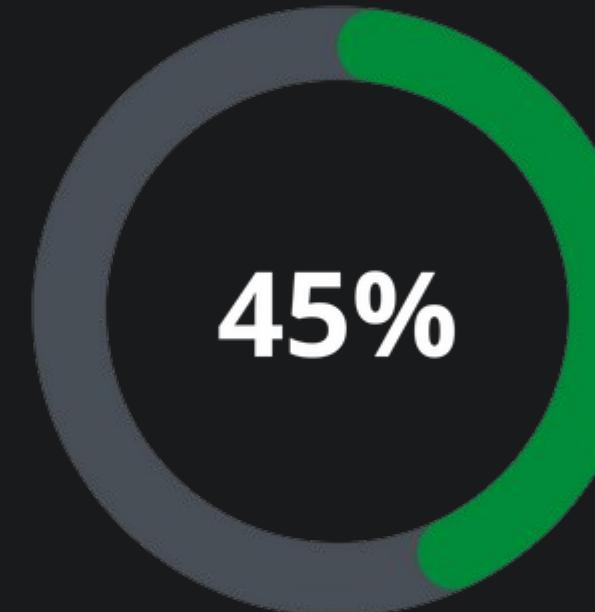
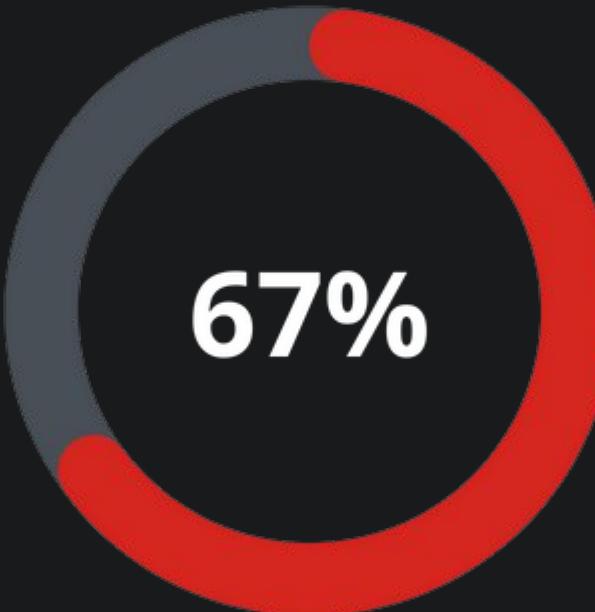
Large



Small



Total order place



```
-- 1. Retrieve the total number of orders placed  
select count(order_id) as total  
from orders
```

Result Grid	
	total
▶	21350



total Revenue

2. Calculate the total revenue generated from pizza sales.

```
select sum(order_details.quantity * pizzas.price) as revenue  
from order_details  
join  
pizzas  
on pizzas.pizza_id = order_details.pizza_id
```

Result Grid	
	total
▶	21350

Highest priced

3. Identify the highest-priced pizza
Select * from pizzas

```
select max(price) from pizzas
```

```
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
```

	name	price
▶	The Greek Pizza	35.95



List of 5 most order pizza

-- 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
```

	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



Total Quantity of each pizza category



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

```
select pizza_types.category,  
       sum(order_details.quantity) as total_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 total_quantity desc
```



	category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

distribution of orders by hours

-- 2. Determine the distribution of orders by hour of the day.

```
select  
hour(time) as order_hour,  
count(order_id) as total_orders  
from orders  
group by hour(time)  
order by order_hour
```

	order_hour	total_orders
▶	9	1
	10	8
	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





top 3 most ordered pizza based on revenue

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

```
select pizza_types.name as pizza_type,  
sum(order_details.quantity * pizzas.price) as revenue  
from order_details  
join pizzas  
on order_details.pizza_id = pizzas.pizza_id  
join pizza_types  
on pizzas.pizza_type_id = pizza_types.pizza_type_id  
group by pizza_types.name  
order by revenue desc  
limit 3
```

	pizza_type	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5



percentage contribution of each pizza type to total revenue.

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

```
select
    pizza_types.category as pizza_category,
    round(
        (sum(order_details.quantity * pizzas.price) /
        (select sum(order_details.quantity * pizzas.price)
        from order_details
        join pizzas
        on order_details.pizza_id = pizzas.pizza_id
        join pizza_types
        on pizzas.pizza_type_id = pizza_types.pizza_type_id)
        * 100, 2
    )as revenue_percentage
    from order_details
    join pizzas
    on order_details.pizza_id = pizzas.pizza_id
    JOIN pizza_types
    ON pizzas.pizza_type_id = pizza_types.pizza_type_id
    GROUP BY pizza_types.category
    ORDER BY revenue_percentage DESC
```

	pizza_category	revenue_percentage
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

Pizza place



percentage contribution of each pizza type to total revenue.

```
-- 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
```

Supreme	The Calabrese Pizza	15934.25	7
Supreme	The Spinach Supreme Pizza	15277.75	8
Supreme	The Brie Carre Pizza	11588.49999999999	9
Veggie	The Four Cheese Pizza	32265.70000000065	1
Veggie	The Mexicana Pizza	26780.75	2
Veggie	The Five Cheese Pizza	26066.5	3
Veggie	The Vegetables + Vegetable...	24374.75	4
Veggie	The Spinach and Feta Pizza	23271.25	5
Veggie	The Italian Vegetables Pizza	16019.25	6
Veggie	The Spinach Pesto Pizza	15596	7
Veggie	The Mediterranean Pizza	15360.5	8
Veggie	The Green Garden Pizza	13955.75	9

category	name	revenue	rn
Chicken	The Thai Chicken Pizza	43434.25	1
Chicken	The Barbecue Chicken Pizza	42768	2
Chicken	The California Chicken Pizza	41409.5	3
Chicken	The Southwest Chicken Pizza	34705.75	4
Chicken	The Chicken Alfredo Pizza	16900.25	5
Chicken	The Chicken Pesto Pizza	16701.75	6
Classic	The Classic Deluxe Pizza	38180.5	1
Classic	The Hawaiian Pizza	32273.25	2
Classic	The Pepperoni Pizza	30161.75	3
Classic	The Greek Pizza	28454.100000000013	4
Classic	The Italian Capocollo Pizza	25094	5
Classic	The Napolitana Pizza	24087	6
Classic	The Big Meat Pizza	22968	7
Classic	The Pepperoni, Mushroom, ...	18834.5	8
Supreme	The Spicy Italian Pizza	34831.25	1
Supreme	The Italian Supreme Pizza	33476.75	2
Supreme	The Sicilian Pizza	30940.5	3
Supreme	The Pepper Salami Pizza	25529	4
Supreme	The Prosciutto and Arugula ...	24193.25	5
Supreme	The Soppressata Pizza	16425.75	6

Thank you

"Thank You for Exploring PizzaBytes
with Us!

Through SQL, we uncovered valuable
insights from the dataset.

We hope you enjoyed this journey of
data and pizzas



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