

# PIZZA SALE SOLO QUERIE



# LIST OF CONTENTS



## Basic Question

- 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 Question

- 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 Question

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Could you determine the top 3 most ordered pizza types based on revenue for each pizza category?

# INTRODUCTION

Hello, My name is Fazole Rabbi Ashique. In this project, I have utilized SQL queries to solve questions that were related to pizza sales.

# BASIC QUESTION

- 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.



# 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(orders_details.quantity * pizzas.price),  
        2) AS total_sales  
  
FROM  
    orders_details  
    JOIN  
    pizzas ON pizzas.pizza_id = orders_details.pizza_id
```

	total_sales
▶	817860.05

# 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;
```

name	price
The Greek Pizza	35.95

# Identify the most common pizza size ordered.

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

```
SELECT
    quantity, COUNT(order_details_id)
FROM
    orders_details
GROUP BY quantity;
```

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

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

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_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

# INTERMEDIATE QUESTION

- 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.



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

```
SELECT  
    pizza_types.category,  
    SUM(orders_details.quantity) AS quantity  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id  
        JOIN  
    orders_details ON orders_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 hour, COUNT(order_id) AS order_count  
FROM  
    orders  
GROUP BY HOUR(order_time);
```

hour	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 average_pizza_per_day  
FROM  
    (SELECT  
        orders.order_date, SUM(orders_details.quantity) AS quantity  
    FROM  
        orders  
    JOIN orders_details ON orders.order_id = orders_details.order_id  
    GROUP BY orders.order_date) AS order_quantity;
```

average_pizza_per_day
138

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

```
SELECT  
    pizza_types.name,  
    SUM(orders_details.quantity * pizzas.price) AS revenue  
FROM  
    pizza_types  
        JOIN  
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
        JOIN  
    orders_details ON orders_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

# ADVANCED QUESTION

- 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.



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

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

category	revenue
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(orders_details.quantity * pizzas.price) as revenue  
from orders_details join pizzas  
on orders_details.pizza_id = pizzas.pizza_id  
join orders  
on orders.order_id = orders_details.order_id  
group by orders.order_date) as sales;
```

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	23990.35000000002
2015-01-11	25862.65
2015-01-12	27781.7

# 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(orders_details.quantity * pizzas.price) AS revenue
        FROM pizza_types
        JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN orders_details ON orders_details.pizza_id = pizzas.pizza_id
        GROUP BY pizza_types.category, pizza_types.name
    ) AS a
) AS b
WHERE rn <= 3;
```

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

A festive illustration set against a red background with a white grid. In the center, the words "THANK YOU" are written in large, bold, white capital letters. To the left, a person with dark curly hair and a green sweater holds a slice of pizza. To the right, another person with glasses and a green sweater holds a small wrapped gift. Above them, a reindeer with a yellow and orange patterned collar and a bell hangs from its neck. The reindeer has large, expressive eyes and a small smile. The background is decorated with yellow stars and a large yellow starburst at the bottom.

THANK YOU