

# HELLO!

My name is Yatish Gupta and I have created a project where I have used multiple SQL queries to solve the questions related to pizza sales.

# QUESTIONS

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.

Basic:

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.

# 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;
```

# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
3 • select order_date,  
4     sum(revenue) over (order by order_date) as cum_revenue  
5   from  
6   (select orders.order_date,  
7     sum(order_details.quantity * pizzas.price)  as revenue  
8   from order_details join pizzas  
9     on order_details.pizza_id  = pizzas.pizza_id  
10  join orders  
11  on orders.order_id = order_details.order_id  
12  group by orders.order_date) as sales;
```

# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

```
SELECT
    pizza_types.category,
    (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 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
```

# 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;`

# GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
• SELECT  
    ROUND(AVG(quantity), 0) AS avg_pizza_ordered_perday  
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;
```

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

```
2
3 •   SELECT
4       HOUR(order_time), COUNT(order_id) AS order_count
5   FROM
6       orders
7   GROUP BY HOUR(order_time)
```

# JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS

- **SELECT**

```
category, COUNT(name)
```

```
FROM
```

```
pizza_types
```

```
GROUP BY category;
```

# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES

```
• SELECT  
    pizza_types.name,  
    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 pizzas.pizza_id = order_details.pizza_id  
GROUP BY pizza_types.name  
ORDER BY total_quantity DESC  
LIMIT 5
```

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

```
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;
```

# 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
```

# 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`



# THANK YOU

