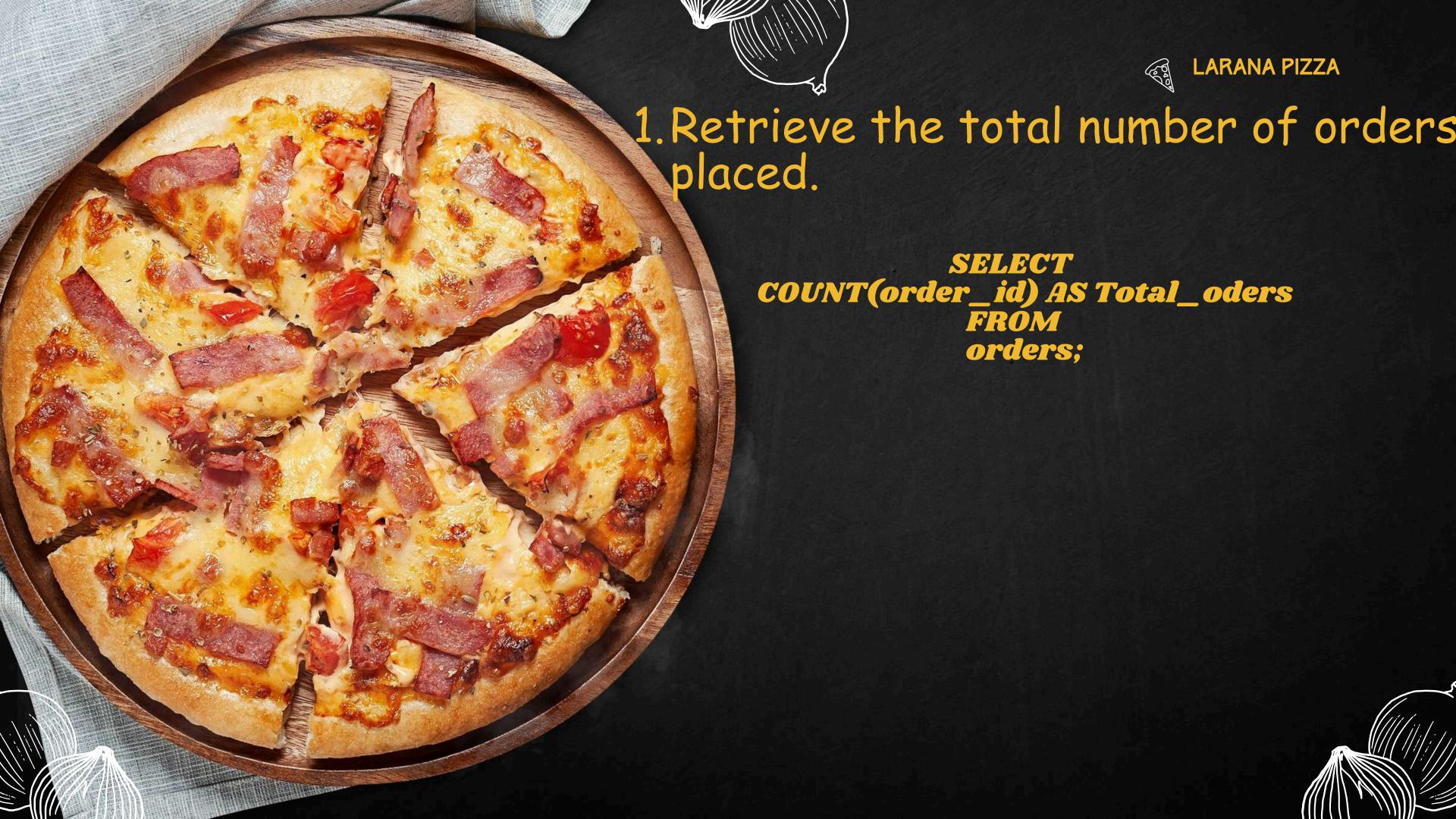




## WELCOME TO MY SQL PROJECT

I, Aryan Giri from NIT Agartala, pleased to upload my SQL project, which focuses on solving 13 analytical problems related to Pizza Hut. This project demonstrates various SQL queries and techniques to analyze sales, customer preferences, order trends, and other key insights. Each problem is accompanied by a structured solution, providing a comprehensive understanding of data manipulation and retrieval. Through this project, I aim to showcase my proficiency in SQL and data analytics by tackling real-world business challenges in the food industry







## 2.CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

SELECT
ROUND(SUM(pizzas.price \* order\_details.quantity),
3) AS totel\_revenue
FROM
order\_details
JOIN
pizzas ON pizzas.pizza\_id = order\_details.pizza\_id;

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

SELECT
pizza\_types.name, pizzas.price
FROM
pizzas
JOIN

pizza\_types ON pizzas.pizza\_type\_id = pizza\_types.pizza\_type\_id ORDER BY pizzas.price DESC LIMIT 1;



4. 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
LIMIT 1;

5. List the top 5 most ordered pizza to -- along with their quantities.





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

SELECT

pizza\_types.name,

SUM(order\_details.quantity) AS sum\_quantity

FROM

pizzas

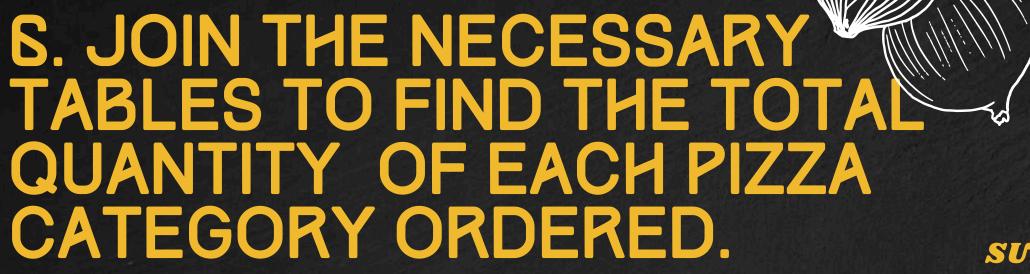
JOIN

pizza\_types ON pizza\_types.pizza\_type\_id =

pizzas.pizza\_type\_id









SELECT
pizza\_types.category,
SUM(order\_details.quantity) AS sum\_quant
FROM







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

SELECT
category, COUNT(name)
FROM
pizza\_types
GROUP BY category
ORDER BY COUNT(name) DESC;

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

SELECT
round(AVG(T\_orders),0) as avg\_pizza\_ordered\_per\_day
FROM
(SELECT
orders.order\_date AS date,

SUM(order\_details.quantity) AS T\_orders
FROM
orders



### 10. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

pizza\_types.name,
SUM(order\_details.quantity \* pizzas.price) AS revenue

pizza\_types ON pizzas.pizza\_type\_id = pizza\_types.pizza\_type\_id

order\_details ON order\_details.pizza\_id = pizzas.pizza\_id
GROUP BY pizza\_types.name
ORDER BY revenue DESC





# 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 order\_details.pizza\_id = pizzas.pizza\_id) \* 100,

2) AS revenue\_percent
FROM
pizzas
JOIN
pizzas\_types 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\_percent DESC;



12. ANALYZE THE CUMALATICVE REVENUE GENERATED OVER TIME

select order\_date, round(sum(revenue) over(order by order\_date),2)as cum\_revenue from(select orders.order\_date, sum(order\_details.quantity\*pizzas.price) as revenue from order\_details join pizzas

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
TYPESBASED ON REVENUE
FOR EACH PIZZA CATEGORY

select category,name,round(revenue,2) as
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

as a) as b where rn <=3;





