







Welcome

Hello, my name is Shivaji Paudel. In this project, I have utilized SQL queries to analyze and solve business questions related to pizza sales data.



Key Objective

- National Orders & Revenue Insights
- 💰 Identify Highest-Priced & Top-Selling Pizzas
- Analyze Most Popular Pizza Sizes & Categories
- ① Understand Order Patterns by Time of Day
- III Explore Sales Distribution by Pizza Type & Category
- Track Daily Averages & Cumulative Revenue
 Trends
- Tank Pizza Types by Revenue, Quantity, and Category
- Calculate Each Pizza Type's Revenue Contribution



Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) AS total_order

FROM

orders;
```





Calculate the total revenue generated from pizza sales.

```
SELECT

ROUND(SUM(order_details.quantity * pizzas.price),

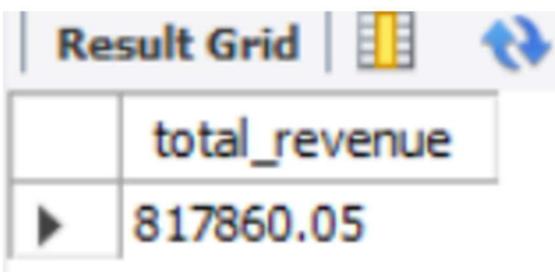
2) AS total_revenue

FROM

order_details

JOIN

pizzas ON order_details.pizza_id = pizzas.pizza_id;
```





Identify the highest-priced pizza.





Identify the most common pizza size ordered.

	size	total_order
١	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28



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

```
SELECT
    SUM(order_details.quantity) AS quantity, pizza_types.name
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 name
ORDER BY quantity DESC
LIMIT 5;
```

	quantity	name
١	2453	The Classic Deluxe Pizza
	2432	The Barbecue Chicken Pizza
	2422	The Hawaiian Pizza
	2418	The Pepperoni Pizza
	2371	The Thai Chicken Pizza



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

```
SELECT
    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 pizzas.pizza_id = order_details.pizza_id
GROUP BY 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

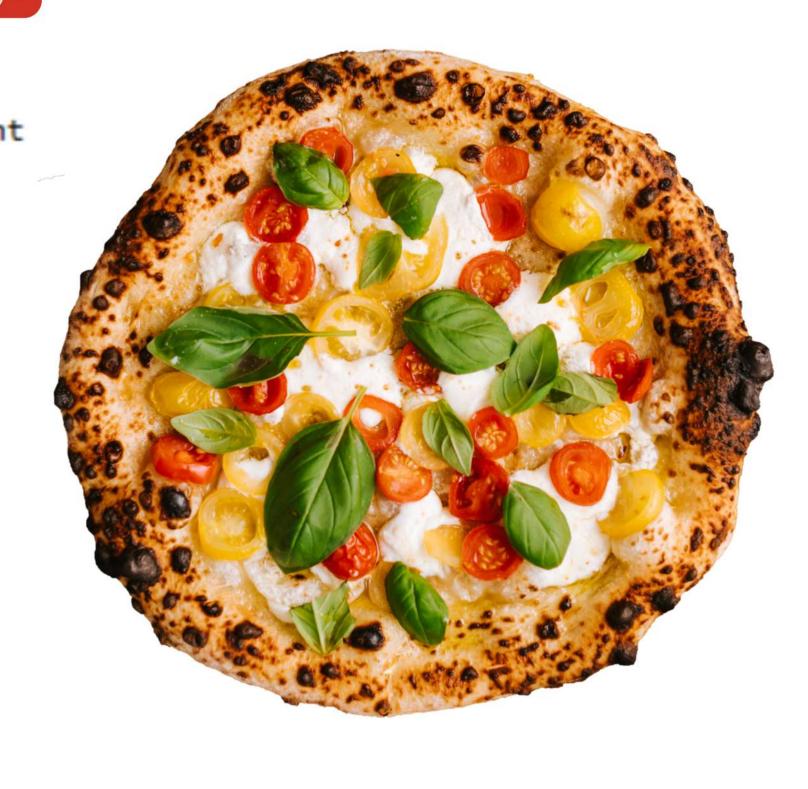
HOUR(order_time) AS hour, COUNT(order_id) AS order_count

FROM

orders

GROUP BY hour;
```

	hour	order_count
•	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399



Find the category-wise distribution of pizzas.

select category, count(name) as order_count from pizza_types
group by category;

	category	order_count
•	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 avg_pizza_ordered_per_day

FROM

(SELECT

order_date, SUM(quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY order_date) AS order_quantity;
```

```
avg_pizza_ordered_per_day

138
```



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

```
select pizza_types.name, sum(pizzas.price*order_details.quantity) as revenue
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 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



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

FORMULE

REVENUE % = (REVENUE OF ITEM ÷ TOTAL REVENUE) × 100

	category	revenue
•	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68



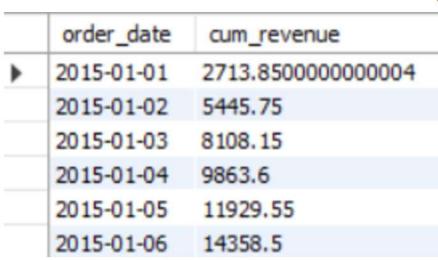
Analyze the cumulative revenue generated over time.

```
select order_date,
sum(revenue) over (order by order_date) as cum_revenue
from
(select orders.order_date,
sum(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;
```

Cumulative revenue means adding each day's earnings to the previous total.

Example:

- m Day 1: Earned ₹200 → Total = 200
- m Day 3: Earned ₹400 → 300 + 400 = 700



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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
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
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

Thank You