



I am Sium Ahameed, currently pursuing my education in Statistics with a focused ambition to become a data scientist. My journey in data science is guided by a structured roadmap that I meticulously follow to ensure I acquire the essential skills and knowledge needed to excel in this dynamic field.

I am practicing SQL through some projects.

This projects is one of them.

Have a lovely time!



QUERIES

- 1) Retrieve the total number of orders placed.
- 2) Calculate the total revenue generated from pizza sales.
- 3) Identify the highest-priced of pizza.
- 4) Identify the most common pizza size ordered.
- 5) List the top 5 most ordered pizza types along with their quantity.
- 6) Join the necessary tables to find the total quantity of each pizza category ordered.
- 7) Determine the distribution orders by hour of the day
- 8) Join relevant tables to find the category-wise distribution of pizzas.
- 9) Group the orders by date and calculate the average number of pizzas ordered per day.
- 10) Determine the top 3 most ordered pizza types based on revenue.
- 11) Calculate the percentage contribution of each pizza type to total revenue.
- 12) Analyze the cumulative revenue generated over time.
- 13) Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Retrieve the total number of orders placed.

SELECT

COUNT(order_id) AS total_orders

FROM

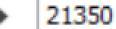
orders;







total_orders



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;
```





total_sales

▶ 817860.05

Identify the highest-priced pizza.

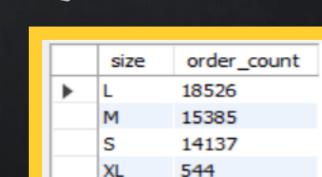




	name	price
•	The Greek Pizza	35.95
	The Greek Pizza	25.5
	The Brie Carre Pizza	23.65
	The Italian Vegetables Pizza	21
	The Barbecue Chicken Pizza	20.75



Identify the most common pizza size ordered



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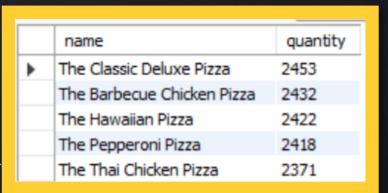




List the top 5 most ordered pizza types along with their quantities.

```
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;
```







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

```
SELECT
    pizza_types.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 order_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

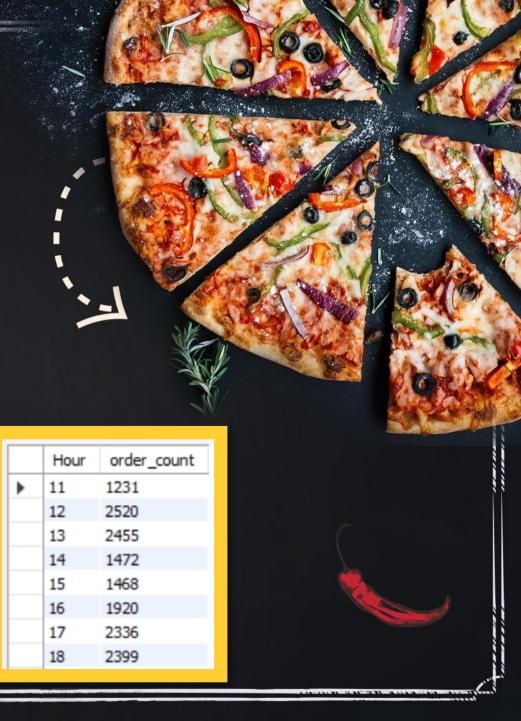
HOUR(time) AS Hour, COUNT(order_id) AS order_count

FROM

orders

GROUP BY HOUR(time);
```





08 Join relevant tables to find the category-wise distribution of pizzas.

SELECT

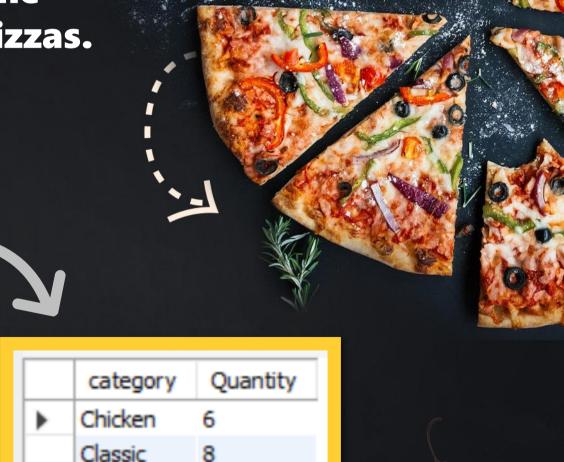
category, COUNT(name) AS Quantity

FROM

pizza_types

GROUP BY category;





Supreme

Veggie

Group the orders by date and calculate the average number of pizzas ordered per day.

```
SELECT

ROUND(AVG(quantity), 0) AS Avg_pizzas_ordered_per_day

FROM

(SELECT

orders.date, SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY orders.date) AS order_quantity;
```



Avg_pizzas_ordered_per_day

>

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

```
pizza_types.name AS 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.name
ORDER BY revenue DESC
LIMIT 3;
```

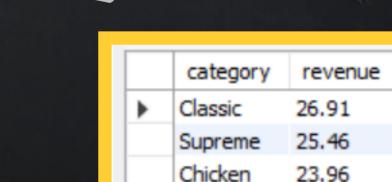






	Name	Revenue
•	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

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



Veggie



23.68



Analyze the cumulative revenue generated over time.

```
SELECT date,
Sum(revenue)

OVER (

ORDER BY date) AS cumm_revenue

FROM (SELECT orders.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 date) AS sales;
```





13 Determine the top 3 most ordered pizza types based on revenue for each pizza category.

```
SELECT category,
       (SELECT category,
               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) A5 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;
```





	category	NAME	revenue
•	Chicken	The Thai Chicken Pizza	43434.25
	Chicken	The Barbecue Chicken Pizza	42768
	Chicken	The California Chicken Pizza	41409.5
	Classic	The Classic Deluxe Pizza	38180.5
	Classic	The Hawaiian Pizza	32273.25
	Classic	The Pepperoni Pizza	30161.75
	Supreme	The Spicy Italian Pizza	34831.25
	Supreme	The Italian Supreme Pizza	33476.75
	Supreme	The Sicilian Pizza	30940.5
	Veggie	The Four Cheese Pizza	32265.70000000065

THANKS

Working on this project was really cool! We dug into pizza hut's sales using SQL, cleaned it up and found some neat insights.

We learned a lot and can't wait to use our newfound skills in future projects. Thanks to everyone involved for a great experience! If you have any questions or would like to discuss this project further, feel free to reach out to me.

Connect with me



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