

### INTRODUCTION

I AM VIKAS SINGH, A DATA ANALYST WITH HANDS-ON EXPERIENCE IN SQL-BASED DATA ANALYSIS. I RECENTLY WORKED ON A PIZZA SALES ANALYSIS PROJECT TO DERIVE BUSINESS INSIGHTS USING SQL QUERIES, JOINS, AGGREGATIONS, AND WINDOWS FUNC.





BUSINESS QUESTIONS SOLVED USING SQL

1.Retrieve the total number of orders placed.2.Calculate the total revenue generated from pizza sales.

3.Identify the highest-priced pizza.
4.Identify the most common pizza size ordered.
5.List the top 5 most ordered pizza types along with

their quantities.

6.Join the necessary tables to find the total quantity of each pizza category ordered.7.Determine the distribution of 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.





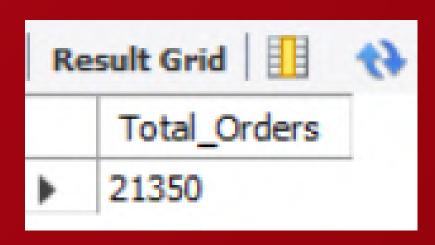


# RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



select count(order\_id) as Total\_Orders from orders;











# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALE



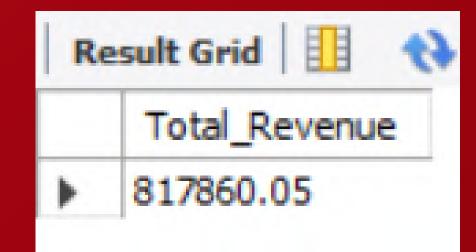
```
SELECT
```

ROUND(SUM(ord.quantity \* piz.price), 2) AS Total\_Revenue
FROM

order\_details AS ord
JOIN

pizzas AS piz ON ord.pizza\_id = piz.pizza\_id







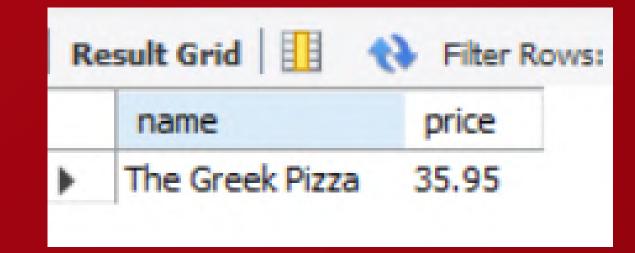




#### IDENTIFY THE HIGHEST-PRICED PIZZA











#### IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

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





	size	Most Common
		_
•	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(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;
```



	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





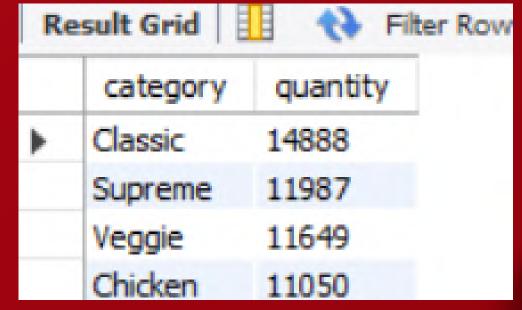


#### JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED



```
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```







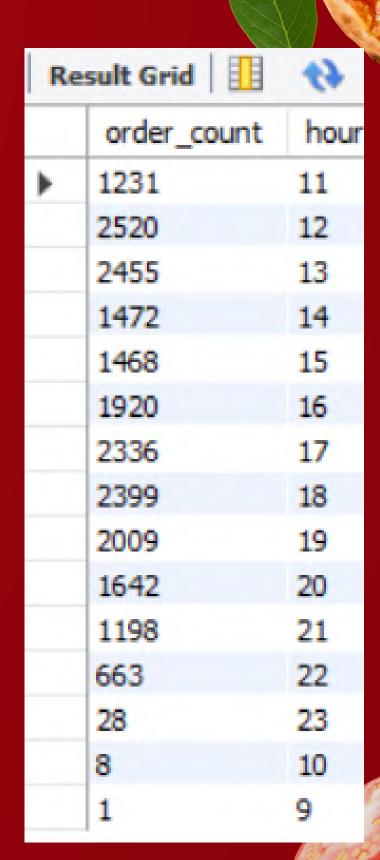


# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

select count(order\_id) as order\_count,
hour(order\_time) as hour
from orders
group by hour(order\_time);









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

select category, count(name) as Pizza\_Distribution
from pizza\_types
group by category;



Result Grid Filter Rows:			
	category	Pizza_Distribution	
١	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	

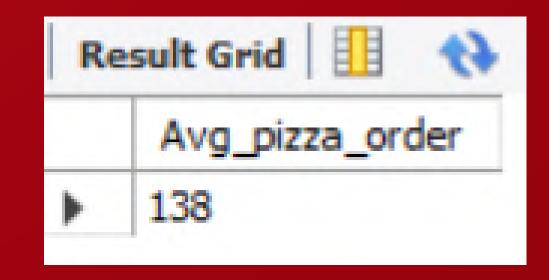


### GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY













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

```
select 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.name
order by revenue desc
limit 3;
```







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
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 revenue;
```



Re	esult Grid	∯ F
	category	revenue
•	Veggie	23.68
	Chicken	23 06
	Supreme	2 23.96
	Classic	26.91





# 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 order_details.order_id = orders.order_id
group by orders.order_date) as sales;
```





Result Grid		Filter Rows:
	order_date	cum_revenue
•	2015-01-01	2713.8500000000004
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6



#### DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY



```
select category, 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;
```



Re	esult Grid	Filter Rows:	Export:	
	category	name	revenue	
<b>&gt;</b>	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	
	Veggie	The Mexicana Pizza	26780.75	
	Veggie	The Five Cheese Pizza	26066.5	





#### THANK YOU!

Thank you for taking the time to review my Pizza Sales Analysis project.
I hope the insights provided highlight the value of data-driven decision-making in business operations.

I'm open to full-time opportunities or internships in Data Analytics roles. Skilled in SQL, Excel, Power BI, and Python, with hands-on project experience.

Let's connect!

