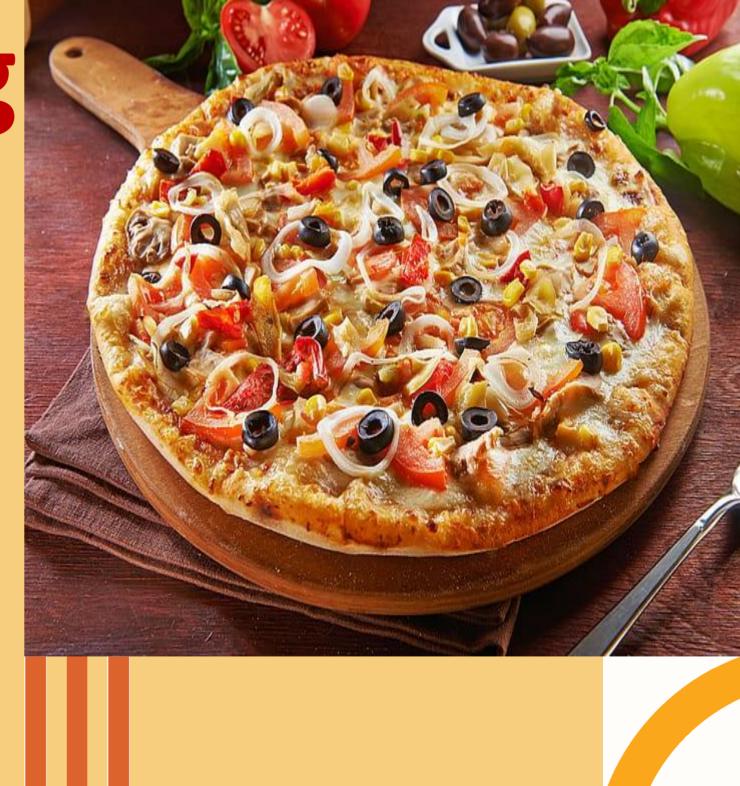


Pizza Sales Analyzing Using SQL

By Pramod Kumar







Introduction

Welcome to the presentation on *Analyzing Pizza Sales Data Using SQL Queries*. This presentation will explore the **analysis** of pizza sales data through SQL queries, providing valuable insights into customer preferences and sales trends.

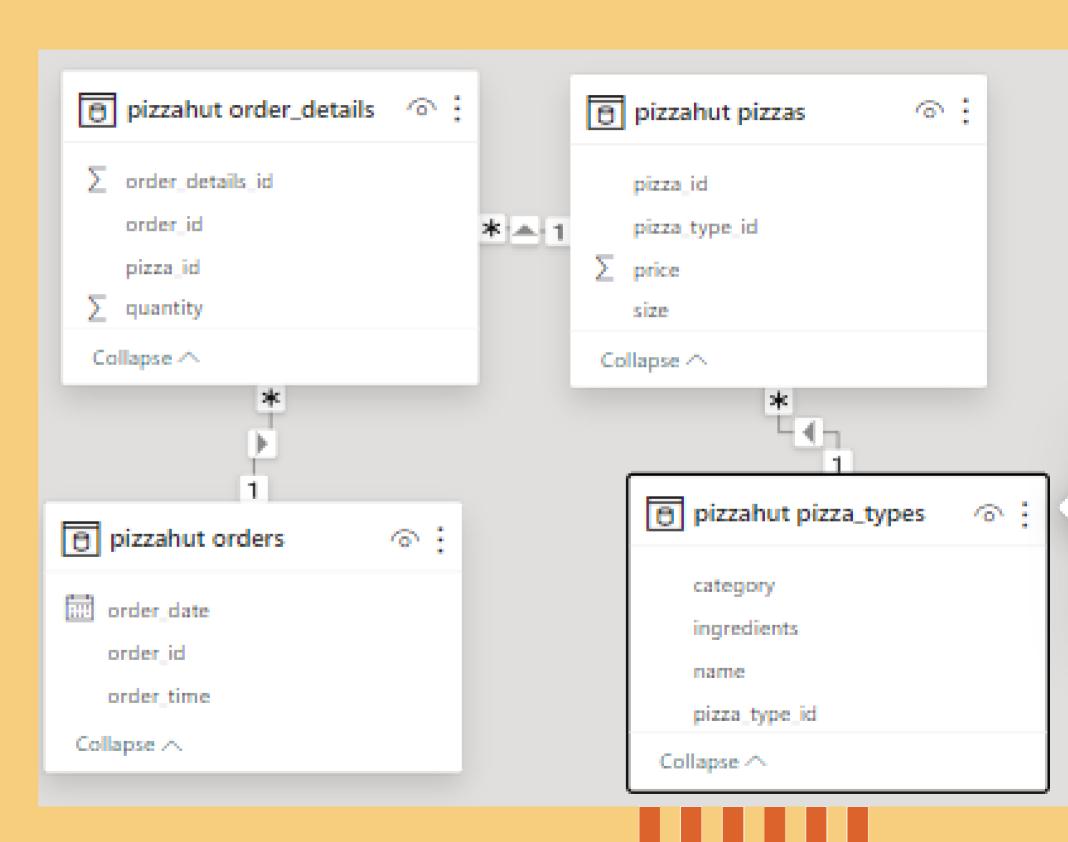




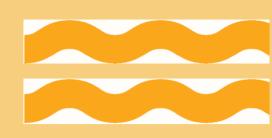


Understanding the Data

Before diving into the analysis, it's crucial to understand the structure and content of the pizza sales data. We will examine the relevant tables and fields to gain insights into the dataset.



* Retrieve total no of orders place



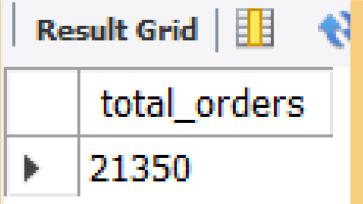
SELECT

COUNT(order_id) AS total_orders

FROM

orders;

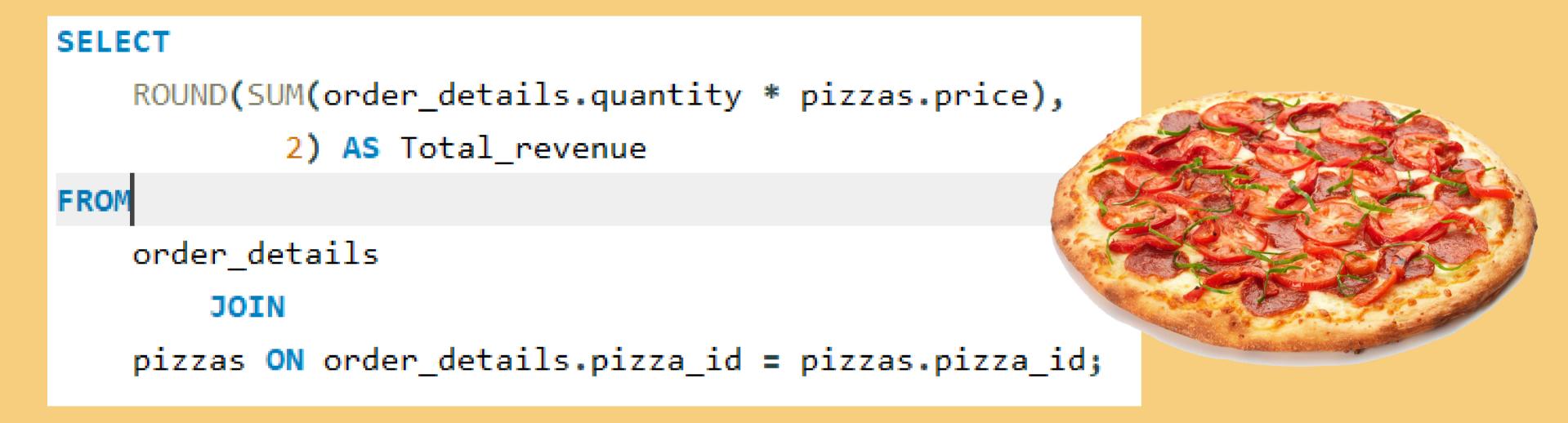


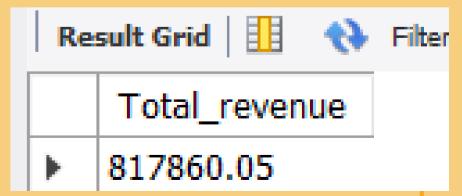






* Calculate the total revenue generated from pizza sales.









* 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 price DESC
LIMIT 1;
```



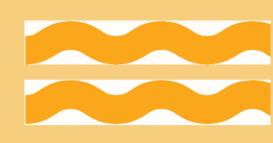
Result Grid		
	name	price
>	The Greek Pizza	35.95







Identify the most common pizza size ordered.



Result Grid			
	size	Total_orders	
>	М	15635	
	L	18956	
	S	14403	
	XL	552	
	XXL	28	



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

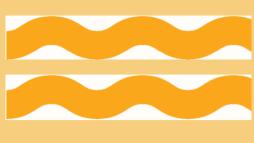
```
SELECT
    pizzas.size AS size,
    SUM(order_details.quantity) AS Total_orders
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY size
;
```



Result Grid					
	Pizza_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 AS Pizza 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_category
ORDER BY quantity DESC;
```

Result Grid			
	Pizza_category	quantity	
>	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	



* Determine the distribution of orders by hour of the day.

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

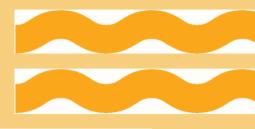
FROM

orders

GROUP BY HOUR(order_time)

ORDER BY hour;
```



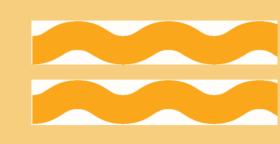


Result Grid			
	hour	order_cour	
>	9	1	
	10	8	
	11	1231	
	12	2520	
	13	2455	
	14	1472	
	15	1468	
	16	1920	
	17	2336	
	18	2399	
	19	2009	
	20	1642	
	21	1198	
	22	663	
	23	28	





* Join relevant tables to find the categorywise distribution of pizzas.



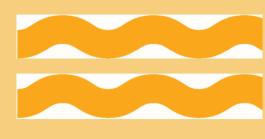
```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

sult Grid 🔠	N Filter Rows:
category	COUNT(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9
	Chicken Classic Supreme





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



```
SELECT

ROUND(AVG(quantity), 0) AS avg_pizza_orderd_per_day

FROM

(SELECT

orders.order_date AS date,

SUM(order_details.quantity) AS quantity

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY date) AS order_quantity;
```

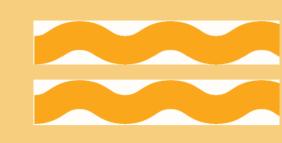




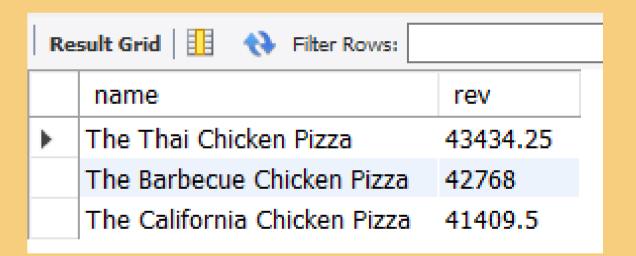




Determine the top 3 most ordered pizza types based on revenue.



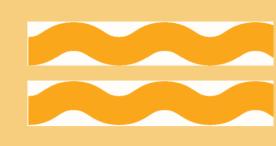
```
SELECT
    pizza_types.name AS name,
    SUM(order details.quantity * pizzas.price) AS rev
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY name
ORDER BY rev DESC
LIMIT 3;
```







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



```
SELECT
    Category,
    ROUND(revenue / total_revenue * 100, 2) AS Revenue_percent
FROM
    (SELECT
        pt.category AS Category,
            SUM(od.quantity * pz.price) AS revenue
    FROM
        pizza types AS pt
    JOIN pizzas AS pz USING (pizza_type_id)
    JOIN order_details od USING (pizza id)
    GROUP BY category
    ORDER BY revenue DESC) AS one,
    (SELECT
        SUM(od.quantity * pz.price) AS total_revenue
    FROM
        pizzas AS pz
    JOIN order details AS od USING (pizza id)) AS total;
```

Result Grid			
	Category	Revenue_percent	
•	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	





* Analyze the cumulative revenue generated over time.

group by date) as revenue_by_day;

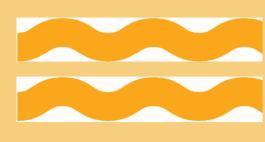




Result Grid Filter Rows:		
	date	cumulative_revenue
>	2015-01-01	2713.85
	2015-01-02	5445.75
	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55
	2015-01-06	14358.5
	2015-01-07	16560.7
	2015-01-08	19399.05
	2015-01-09	21526.4



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







using(pizza_id)

where rn ≤ 3 ;

group by pt.category, pt.name) as a) as b

Result Grid 1				
	category	name	round(revenue,1)	Top_3
>	Chicken	The Thai Chicken Pizza	43434.2	1
	Chicken	The Barbecue Chicken Pizza	42768	2
	Chicken	The California Chicken Pizza	41409.5	3
	Classic	The Classic Deluxe Pizza	38180.5	1
	Classic	The Hawaiian Pizza	32273.2	2
	Classic	The Pepperoni Pizza	30161.8	3
	Supreme	The Spicy Italian Pizza	34831.2	1
	Supreme	The Italian Supreme Pizza	33476.8	2
	Supreme	The Sicilian Pizza	30940.5	3
	Veggie	The Four Cheese Pizza	32265.7	1
	Veggie	The Mexicana Pizza	26780.8	2
	Veggie	The Five Cheese Pizza	26066.5	3





Sales Trends Over Time

Examining sales data over time using SQL queries allows us to identify **trends** and patterns in pizza orders. By understanding these **fluctuations**, businesses can make informed decisions to enhance sales strategies.







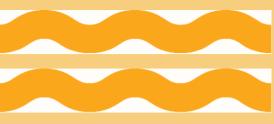


Conclusion

In conclusion, the analysis of pizza sales data through SQL queries offers valuable insights into customer preferences, sales trends, and business opportunities. By leveraging these insights, businesses can make informed decisions to enhance marketing strategies, optimize menu offerings, and drive profitability.







Thanks!

Do you have any questions?

Ask me in comment the or you can also connect with me on LINKEDIN







