SQL PROJECT BASED ON PIZZA SALES

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INTRODUCTION

HELLO! I'M LINU LALACHAN. IN THIS PROJECT, I'VE UTILIZED SQL QUERIES TO ADDRESS QUESTIONS CONCERNING PIZZA SALES.

QUESTIONS REGARDING PIZZA SALES

- 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.

QUESTIONS REGARDING PIZZA SALES

- 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.

1. Retrieve the total number of orders placed.

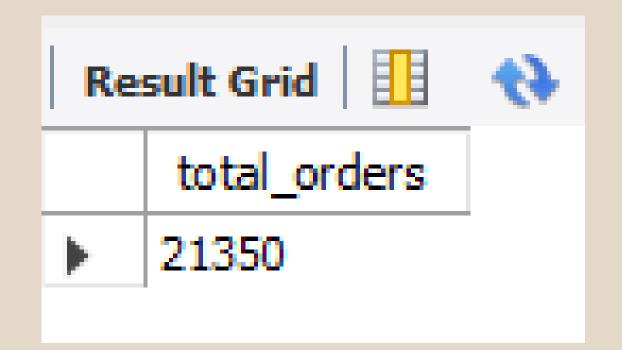
INPUT/QUERY:

```
SELECT

COUNT(order_id) AS total_orders

FROM

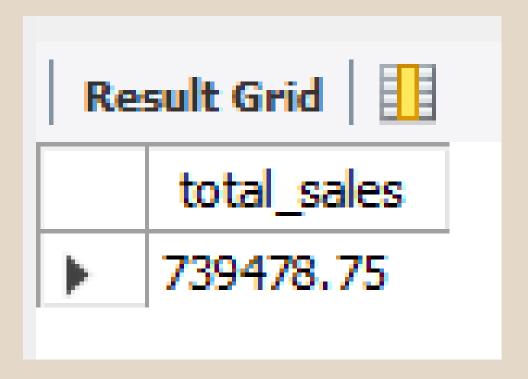
orders;
```



INPUT/QUERY:

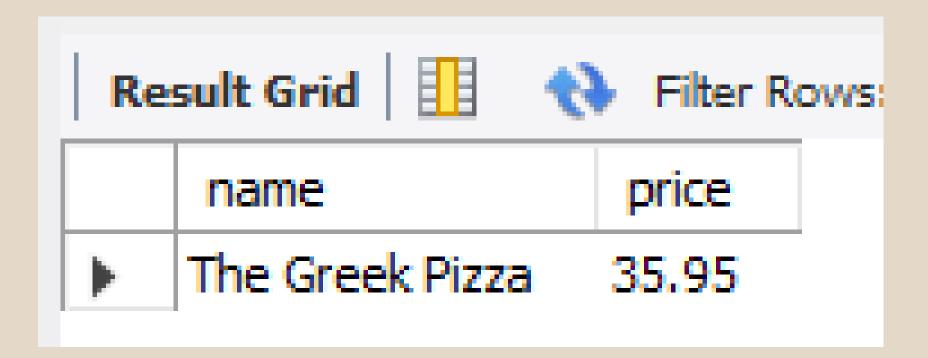
```
SELECT
    ROUND(SUM(order_details_id.order_quantity * pizzas.price),
            2) AS total_sales
FROM
    order details id
        JOIN
    pizzas ON order_details_id.pizza_id = pizzas.pizza_id;
```

2. Calculate the total revenue generated from pizza sales.



3. Identify the highest-priced pizza.

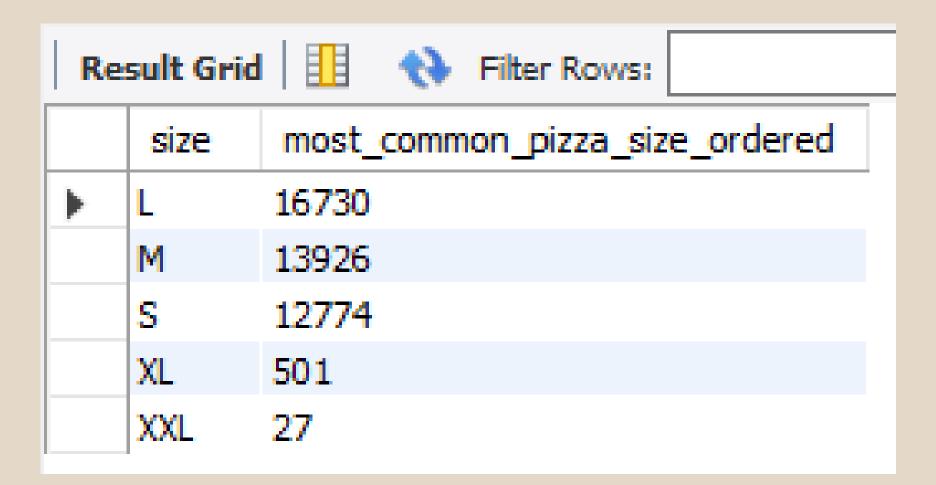
INPUT/QUERY:



4. Identify the most common pizza size ordered.

INPUT/QUERY:

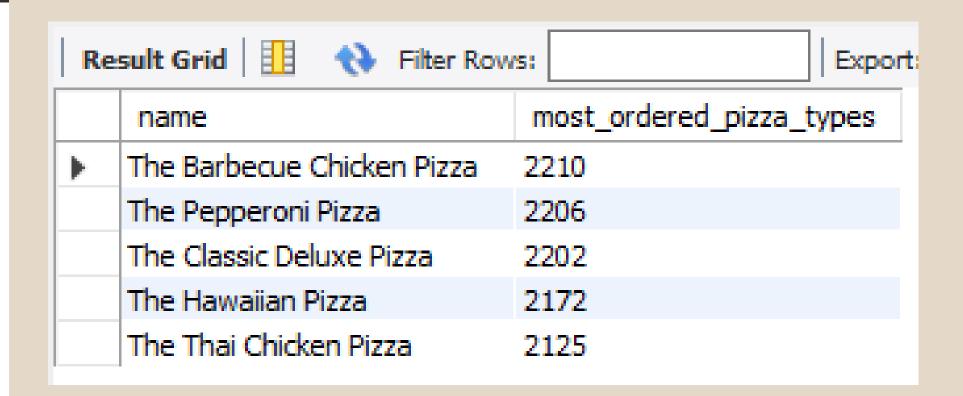
```
SELECT
    pizzas.size,
    COUNT(order_details_id.order_quantity) AS most_common_pizza_size_ordered
FROM
    pizzas
        JOIN
    order_details_id ON pizzas.pizza_id = order_details_id.pizza_id
GROUP BY size order by most_common_pizza_size_ordered DESC;
```



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

INPUT/QUERY:

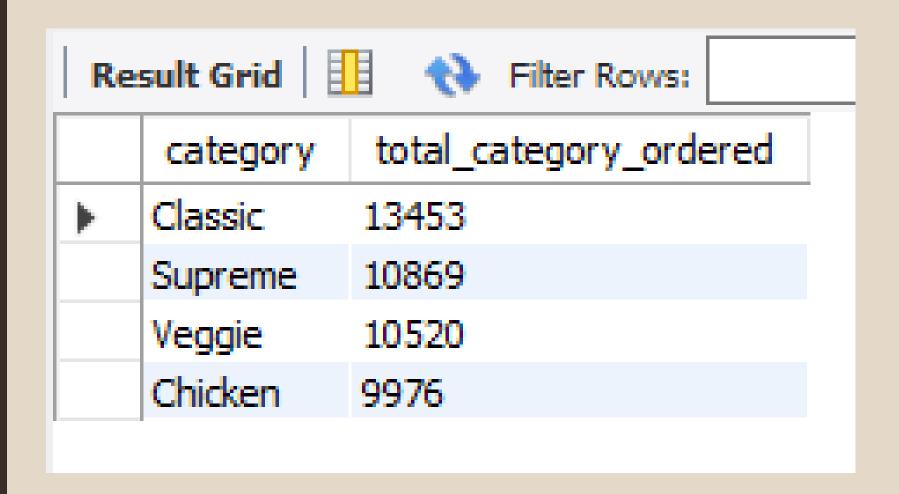
```
SELECT
    pizza_types.name,
    SUM(order_details_id.order_quantity) AS most_ordered_pizza_types
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details_id ON order_details_id.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY most_ordered_pizza_types DESC
LIMIT 5;
```



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

INPUT/QUERY:

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



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

INPUT/QUERY:

```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

Re	sult Grid		43	Filter
	hour	order	_coun	t
•	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		
	10	8		
	9	1		

INPUT/QUERY:

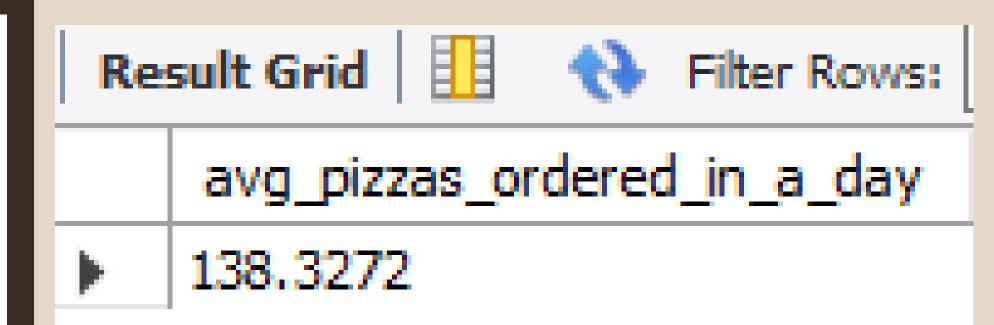
```
SELECT
    category, COUNT(name) AS categorywise distributionof pizzas
FROM
    pizza_types
GROUP BY category;
```

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

Result Grid					
	category	categorywise_distributionof_pizzas			
•	Chicken	6			
	Classic	8			
	Supreme	9			
	Veggie	9			

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

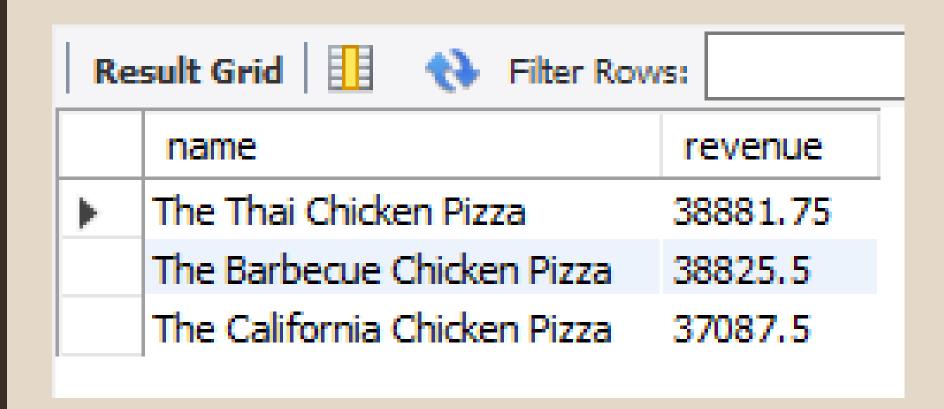
INPUT/QUERY:



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

INPUT/QUERY:

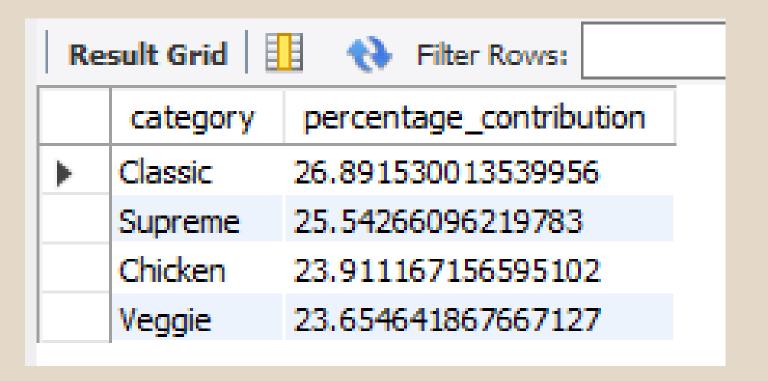
```
SELECT
    name,
    SUM(order_details_id.order_quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details_id ON order_details_id.pizza_id = pizzas.pizza_id
GROUP BY name
ORDER BY revenue DESC
LIMIT 3;
```



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

INPUT/QUERY:

```
SELECT
    pizza types.category,
    (SUM(order details id.order quantity * pizzas.price) / (SELECT
            ROUND(SUM(order details id.order quantity * pizzas.price),
                        2)
        FROM
            order_details_id
                JOIN
            pizzas ON order_details_id.pizza_id = pizzas.pizza_id)) * 100 AS percentage_contribution
FROM
    pizza_types
        JOIN
    pizzas ON pizza types.pizza type id = pizzas.pizza type id
        JOIN
    order details id ON order details id.pizza id = pizzas.pizza id
GROUP BY category
ORDER BY percentage contribution DESC;
```



12. Analyze the cumulative revenue generated over time.

INPUT/QUERY:

group by order_date) as cum_sales;

```
select order_date,sum(total_revenue_generated_in_a_day) over(order by order_date) as cum_revenue from
  (select order_date,round(sum(order_quantity*price),2) as total_revenue_generated_in_a_day
  from order_details_id join pizzas
  on order_details_id.pizza_id = pizzas.pizza_id
  join orders
  on order_details_id.order_id = orders.order_id
```

DUTPUT/RESULT:

Ke	sult Grid 🏥	+ Hiter Rows:
	order_date	cum_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	21526.399999999998
	2015-01-10	23990.35
	2015-01-11	25862.649999999998
	2015-01-12	27781.699999999997
	2015-01-13	29831.299999999996
	2015-01-14	32358.699999999997
	2015-01-15	34343.5
	2015-01-16	36937.65
	2015-01-17	39001.75
	2015-01-18	40978.6
	2015-01-19	43365.75

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

INPUT/QUERY:

```
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_quantity*price) as revenue
from order_details_id join pizzas
on order_details_id.pizza_id = pizzas.pizza_id
join pizza_types
on pizza_types
on pizza_types.pizza_type_id = pizzas.pizza_type_id
group by pizza_types.category,pizza_types.name order by revenue) as sales) as pizza_sales
where rn<=3;</pre>
```

Result Grid				
	category	name	revenue	
>	Chicken	The Thai Chicken Pizza	38881.75	
	Chicken	The Barbecue Chicken Pizza	38825.5	
	Chicken	The California Chicken Pizza	37087.5	
	Classic	The Classic Deluxe Pizza	34221.5	
	Classic	The Hawaiian Pizza	28926	
	Classic	The Pepperoni Pizza	27514.5	
	Supreme	The Spicy Italian Pizza	31558.25	
	Supreme	The Italian Supreme Pizza	30433.25	
	Supreme	The Sicilian Pizza	27751.25	
	Veggie	The Four Cheese Pizza	29039.55000000055	
	Veggie	The Mexicana Pizza	24124	
	Veggie	The Five Cheese Pizza	24031.5	