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WELCOME TO SQL PIZZA SALES PROJECT

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OVERVIEW

I am Shreyansh Mishra, and I have developed this Pizza Sales project using SQL. The project involves analyzing sales data through structured SQL queries to derive key business insights such as total revenue, sales trends, top-selling products, and customer preferences. It showcases the practical application of SQL in real-world data analysis and decision-making.



QUESTIONS :

- 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 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 pizzacategory.

1- Retrieve the total number of orders placed.

```
SELECT  
    COUNT(order_ID) AS total_orders  
FROM  
    orders;
```

Result Grid	
	total_orders
▶	21350

2-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;
```

Result Grid	
	total_sales
▶	817860.05

3- 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 pizzas.price DESC
LIMIT 1;
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

4- Identify the most common pizza size ordered.

```
SELECT
    pizzas.size,
    COUNT(order_details.order_details_ID) AS order_count
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC
LIMIT 1;
```

Result Grid | Filter Rows:

	size	order_count
▶	L	18526

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

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

	name	total_pizz
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

6- Join the necessary tables to find the total quantityof 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

7- 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
	19	2009

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

```
SELECT  
    category, COUNT(pizza_type_id) AS quantity  
FROM  
    pizza_types  
GROUP BY category;
```

Result Grid		Filter
	category	quantity
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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_perday  
FROM  
(SELECT  
    orders.order_date, SUM(order_details.quantity) AS quantity  
FROM  
    orders  
JOIN order_details ON orders.order_ID = order_details.order_ID  
GROUP BY orders.order_date) AS order_quantity;
```

Result Grid	
	Filter Rows:
▶	avg_pizza_ordered_perday 138

10-Determine the top 3 most ordered pizza typesbased 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;

```

Result Grid | Filter Rows: _____

	name	revenue
>	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

11-Calculate the percentage contribution of each pizzatype 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 pizzas.pizza_id = order_details.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 DESC;

```

Result Grid | Filter

	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

12-Analyze the cumulative revenue generated overtime.

```

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 orders
        join order_details on orders.order_ID = order_details.order_ID
        join pizzas on pizzas.pizza_id = order_details.pizza_ID
      group by orders.order_date) as sales;
  
```

	order_date	cum_revenue
	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
	2015-01-10	23990.350000000002

13-Determine the top 3 most ordered pizza typesbased 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;
```

Result Grid			
	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

CONCLUSION

This project presents an in-depth analytical exploration of Pizza Sales data, wherein I meticulously addressed a series of SQL queries through the adept utilization of advanced SQL functions. Employing sophisticated techniques such as data aggregation, conditional filtering, relational joins, and hierarchical sorting, the analysis extracts actionable business intelligence—encompassing revenue trajectories, high-performing product categories, and consumer behavior patterns. This work underscores the pragmatic application of SQL in strategic data interpretation and performance optimization.