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OBJECTIVES

- 1)Identify Sales Trends.
- 2) Understand Customer Preferences.
- 3) Evaluate Sales Performance.
- 4) Enhance Customer Satisfaction.
- 5) Financial Performance Analysis.



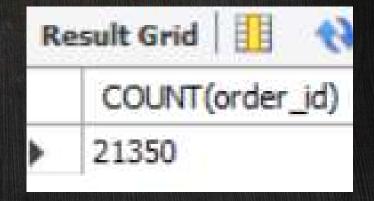
OVERVIEW

In this project, we address several critical questions related to pizza sales, organized under different categories to provide a structured analysis. By following this comprehensive approach, the pizza sales analysis aims to deliver actionable insights that will optimize various aspects of the business. These insights will help identify sales trends, understand customer preferences... Additionally, the project focuses on customer segmentation, inventory optimization, operational efficiency, and financial performance. The ultimate goal is to enhance customer satisfaction, increase sales, and boost profitability. This structured analysis will guide data-driven decisions, ensuring sustained business growth and success.



Q1) Retrive the total numbers of orders placed.

SELECT COUNT(order_id)
FROM orders;





Q2) Calculate total revenue generated from pizza sales.







Q3) Identify the Highest Price pizza.



Q4) Identify the most common pizza sized ordered



Q5) list 5 most ordered pizza types along with quantities

Result Grid			
	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	

Q6) Join the necessary tables to find the total quantity of each pizza catagory 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;
```

R	esult Grid	∰ ♦ ₽
	category	quantity
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Q7) 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(order_time);

hour order
```

141	esuit ari	n mm (A u
	hour	order_count
١	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
	100	

Q8) Join relevant tables to find the category wise distribution of pizzas.

select category, count(name) from pizza_types
group by category;

Re	Result Grid		
	category	count(name)	
>	Chicken	6	
	Classic	8	
	Supreme	9	
	Veggie	9	

Q9) Group the orders by date and calculate the average number of pizzas orders per day

```
SELECT

ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day

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;
```



Q10) Determine top 3 most ordered pizza types based revenue.

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.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;
```

R	esult Grid 🔠 💎 Filter Ro	WS:	
	name	revenue	
	The Thai Chicken Pizza	43434.25	
	The Barbecue Chicken Pizza	42768	
	The California Chicken Pizza	41409.5	

Q11) 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 orders.order_id = order_details.order_id
group by orders.order_date) as sales;
```

order_date	cum_revenue
2015-01-01	2713.85000000000004
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
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004

Q12) Determine the top 3 most ordered pizza types based on revenue for each pizza type.

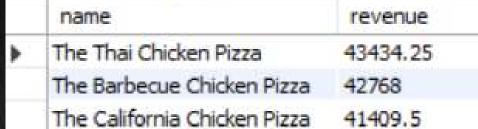
```
select name, revenue from
(select category, name, revenue,
rank()over (partition by category order by revenue desc) as rn
from
(select pizza types.category, pizza types.name,
sum((order details.quantity) * pizzas.price) as revenue
from pizza_types join pizzas
on pizza_types.pizza_type_id = pizzas.pizza_type_id
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
```















INSIGHTS

- * Large (L) sized pizza is most commonly ordered.
- * The Thai Chicken Pizza (\$43434.25), Barbecue Chicken Pizza (\$42768) and California Chicken pizza (\$41409.5) generate the highest revenue.
 *The most ordered pizza type based on quantities are the Classic Delux Pizza (2453), Barbecue chicken pizza (2432) and Hawaiian pizza (2422).
- *The highest priced pizza is Greek pizza (\$35.95).
- *The average number of pizzas ordered per day is 138.
- *Understanding the percentage contribution of each pizza type to total revenue helps in identifying customer performance.

THANK YOU!