

# PIZZA SALES REPORT



# INTRODUCTION

Welcome to the Pizza Sales Report presentation, where we delve into the analysis of pizza sales data using SQL. This comprehensive report provides insights into various aspects of our pizza business, from basic metrics to advanced analytics.



# OBJECTIVE

The objective of this project is to analyze pizza sales data using SQL to extract valuable insights that can aid in business decision-making. By querying the data, we aim to answer several key questions related to sales performance, customer preferences, and revenue generation.

# ORDERS TABLE

This table contains information about each order placed, including the order ID, order date, and order time. It helps in tracking when orders were placed and how many orders were made over time.

# ORDER\_DETAILS TABLE

This table provides detailed information about each pizza ordered, including the order ID, pizza ID, quantity, and price. It helps in understanding the specifics of each order, such as the number of pizzas and the total price.

# PIZZAS TABLE

This table lists all available pizzas along with their ID, name, size, and price. It is essential for identifying the types of pizzas available, their sizes, and their pricing.

# PIZZA\_TYPES TABLE

This table categorizes pizzas into various types and categories, including the pizza type ID, name, and category. It helps in grouping pizzas into broader categories for more generalized analysis.

Retrieve the total number of orders placed.

```
SELECT  
    COUNT(order_id) AS total_order  
FROM  
    orders;
```

Result Grid	
	total_order
▶	21350



# 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

# 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 Barbecue Chicken Pizza	35.95	



Identify the most common pizza size ordereders placed.

```
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	

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
pizzas.pizza_id = order_details.pizza_id
GROUP BY pizza_types.name
ORDER BY quantity DESC
LIMIT 5;
```

Result Grid     Filter Rows: <input type="text"/>		
	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 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 pizza_types.category  
ORDER BY quantity DESC;
```

Result Grid			Filter
	category	quantity	
▶	Classic	14888	
	Supreme	11987	
	Veggie	11649	
	Chicken	11050	

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

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

hour(order_time)	count(order_id)
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

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

```
SELECT category, COUNT(category) AS count
FROM pizza_types
GROUP BY category
ORDER BY count DESC;
```

Result Grid		
	category	count
▶	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6

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

```
SELECT ROUND(AVG(per_day), 0) AS avg
FROM (SELECT SUM(order_details.quantity)
      AS per_day, orders.order_date FROM
order_details JOIN orders ON
order_details.order_id = orders.order_id
GROUP BY orders.order_date) AS order_quantity;
```

Result Grid	
	avg
▶	138



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

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

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

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

```
SELECT pizza_types.category,  
ROUND(SUM(pizzas.price * order_details.quantity) / (SELECT  
ROUND(SUM(order_details.quantity * pizzas.price),2) AS  
total_revenue FROM order_details JOIN pizzas ON  
order_details.pizza_id = pizzas.pizza_id) * 100,  
2) AS revenue FROM order_details JOIN pizzas  
ON order_details.pizza_id = pizzas.pizza_id JOIN  
pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
GROUP BY pizza_types.category;
```

Result Grid	
category	revenue
Classic	26.91
Veggie	23.68
Supreme	25.46
Chicken	23.96


# Analyze the cumulative revenue generated over time.

```
select order_date, revenue, sum(revenue) over (order by order_date )
as cum_revenue
from
(select orders.order_date, sum(order_details.quantity*pizzas.price)
as revenue from pizzas join order_details on pizzas.pizza_id=order_details.pizza_id
join orders on order_details.order_id=orders.order_id
group by orders.order_date) as sales;
```

order_date	revenue	cum_revenue
2015-01-01 00:00:00	2713.85000000000004	2713.85000000000004
2015-01-02 00:00:00	2731.89999999999996	5445.75
2015-01-03 00:00:00	2662.39999999999996	8108.15
2015-01-04 00:00:00	1755.45000000000003	9863.6
2015-01-05 00:00:00	2065.95	11929.55
2015-01-06 00:00:00	2428.95	14358.5
2015-01-07 00:00:00	2202.20000000000003	16560.7
2015-01-08 00:00:00	2838.34999999999995	19399.05
2015-01-09 00:00:00	2127.35000000000004	21526.4
2015-01-10 00:00:00	2463.95	23990.3500000000002

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

```
select category,name,revenue ,rn
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 pizzas.pizza_id=order_details.pizza_id
group by pizza_types.category,pizza_types.name) as a ) as b
where rn<=3 ;
```

Filter Rows: <input type="text"/>		Export: 
name		revenue
The Thai Chicken Pizza		43434.25
The Barbecue Chicken Pizza		42768
The California Chicken Pizza		41409.5
The Classic Deluxe Pizza		38180.5
The Hawaiian Pizza		32273.25
The Pepperoni Pizza		30161.75
The Spicy Italian Pizza		34831.25
The Italian Supreme Pizza		33476.75
The Sicilian Pizza		30940.5
The Four Cheese Pizza		32265.700000000065
The Mexicana Pizza		26780.75
The Five Cheese Pizza		26066.5

# CONCLUSION

This project utilizes SQL queries to provide a comprehensive analysis of pizza sales data. By examining various aspects of sales performance and customer preferences, the analysis offers valuable insights that can help drive business decisions and strategies. From basic metrics like total orders and revenue to more advanced analyses like revenue contributions and order distributions, the project delivers a detailed understanding of the pizza sales landscape.

The image features a dark maroon background with several overlapping, semi-transparent hexagonal shapes of varying sizes and positions. Some hexagons are solid, while others are outlined. The text "THANK YOU" is centered in a bold, white, sans-serif font. There are also small, solid maroon hexagons scattered across the background.

**THANK YOU**