

**Start Your Slide** 



**Presented By:** 

**ABHAY SINGH GAUTAM** 



#### INTRODUCTION

Welcome to the Pizza Sales Project! This initiative delves into the fascinating world of pizza sales analytics, leveraging data to uncover meaningful insights and drive strategic business decisions. By analyzing sales data, we aim to enhance our understanding of customer preferences, optimize operational efficiency, and ultimately boost profitability.

# OBJECTIVES OF THE PROJECT



- 1. F Identifying topperforming pizza types and sizes.
- 2. I Understanding sales trends over time, including peak hours and seasonal variations.
- 3. Analyzing customer purchasing behavior and preferences.
- 4. Providing actionable insights for inventory management and marketing strategies.

## 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
```



#### Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```



#### Identify the highest-priced pizza.



#### Identify the most common pizza size ordered

R	esult Gri	d   🖽 💎 Filter Rows	51
	size	order_count	
>	L	18526	
	M	15385	
	S	14137	
	XL	544	
	XXL	28	

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

	name	quantity
Þ	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 order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quantity DESC;
```

R	esult Grid	Filter Rows
	category	quantity
>	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

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

```
SELECT

HOUR(order_time) AS hour, COUNT(order_id)

FROM

orders

GROUP BY HOUR(order_time);
```

Re	esult Gri	d   🔢 🙌 Filter Rows
	hour	COUNT(order_id)
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

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

```
SELECT

category, COUNT(name)

FROM

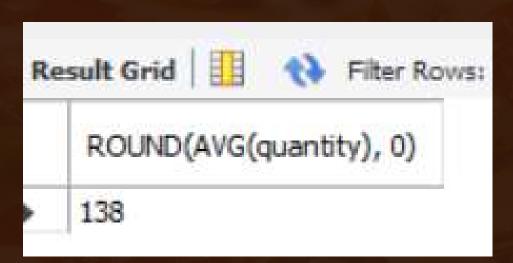
pizza_types

GROUP BY category;
```



#### Calculate the average number of pizzas ordered

```
SELECT
    ROUND(AVG(quantity), 0)
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;
```



#### Determine the top 3 most ordered pizza types based on 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
<b>&gt;</b>	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.

	name	revenue	
۲	The Barbecue Chicken Pizza	99.999999999913	
	The California Chicken Pizza	99.999999999913	
	The Chicken Alfredo Pizza	99.999999999913	
	The Chicken Pesto Pizza	99.999999999913	
	The Southwest Chicken Pizza	99.999999999913	
	The Thai Chicken Pizza	99.9999999999913	
	The Big Meat Pizza	99.999999999913	
	The Classic Deluxe Pizza	99.999999999913	
	The Hawaiian Pizza	99.999999999913	
	The Italian Capocollo Pizza	99.999999999913	
	The Napolitana Pizza	99.999999999913	
	The Pepperoni, Mushroom,	99.999999999913	
	The Pepperoni Pizza	99.9999999999913	

#### 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
۰	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

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

```
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
on order_details.pizza_id = pizzas.pizza_id
group by pizza_types.category,pizza_types.name) as a) as b
where rn <=3;</pre>
```

	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	32265.70000000065
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5

# PURPOSE OF THE PROJECT

The pizza sales project is designed to create a structured database for managing and analyzing sales data for a pizza business. It provides a comprehensive solution for tracking orders, customer information, menu items, and sales trends.





# ANALYSIS OF THE PROJECT

The analysis phase of the pizza sales project focuses on evaluating the data to extract meaningful insights that can improve the business's operations, customer experience, and profitability.

# THANK YOU FOR ATTENTION

**See You Next**