

PIZZA SALES REPORT



INTRODUCTION

HELLO! I'M RITIK RAHI, AN ASPIRING DATA ANALYST SHOWCASING MY SQL AND POWER BI SKILLS THROUGH THIS PROJECT.

OBJECTIVE-TO ANALYZE PIZZA SALES USING MYSQL AND DERIVE ACTIONABLE INSIGHTS FOR UNDERSTANDING CUSTOMER PREFERENCES, IDENTIFYING SALES PATTERNS, AND OPTIMIZING INVENTORY MANAGEMENT.

KEY ACTIVITIES

- DATA ANALYSIS WITH SQL: EXTRACTED AND ANALYZED DATA FROM FOUR DATASETS:
- ORDERS, ORDER_DETAILS, PIZZAS, AND PIZZA_TYPES.
- DYNAMIC QUERYING: USED JOINS, AGGREGATIONS, AND FILTERING TO UNCOVER TRENDS AND CORRELATIONS.
- INSIGHT GENERATION: IDENTIFIED TOP-SELLING PIZZAS, PEAK SALES TIMES, AND INGREDIENT DEMAND PATTERNS,

OUTCOME

SQL'S DYNAMIC CAPABILITIES ENABLED EFFICIENT DATA MANIPULATION, PATTERN RECOGNITION, AND ACTIONABLE REPORTING, DEMONSTRATING ITS ROLE IN SOLVING REAL-WORLD BUSINESS CHALLENGES.

BUSINESS IMPACT

THIS PROJECT HIGHLIGHTS HOW SQL-DRIVEN INSIGHTS CAN OPTIMIZE INVENTORY, REDUCE WASTE, AND ENHANCE OPERATIONAL EFFICIENCY. UNDERSTANDING SALES TRENDS AND CUSTOMER PREFERENCES HELPS BUSINESSES IMPROVE SATISFACTION AND BOOST PROFITABILITY.

QUESTIONS

Basic:

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.

Intermediate:

- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.
- Determine the top 3 most ordered pizza types based on revenue.

Advanced:

- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

BUSINESS INSIGHTS

Top-Selling Pizzas:

The Thai Chicken Pizza, Barbecue Chicken Pizza, and California Chicken Pizza are the top 3 selling pizzas, generating the highest revenue.

Peak Sales Periods:

Most orders occur during afternoon (12-1 PM) and evening (6-7 PM), marking the peak sales hours.

Total Pizza Category Ordered:

The Classic category has the highest orders, outperforming other categories like Supreme, Veggie, and Chicken.

Revenue Contribution by Chicken Pizzas:

The Chicken category generated the highest revenue, with its top 3 pizza types contributing approximately 23.96%.

Total Orders and Revenue:

A total of 21,350 orders were placed, generating ₹8,17,860 in revenue.

Average Pizzas Ordered Per Day:

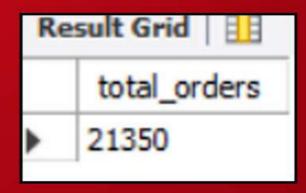
An average of 138 pizzas were ordered daily.

Most Preferred Pizza Size:

Large-sized pizzas were the most preferred, with 18,526 units sold.

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

```
SELECT count(Order_id) AS total_orders
FROM orders;
```



CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

```
SELECT

ROUND(SUM(order_details.Quantity * pizzas.price),

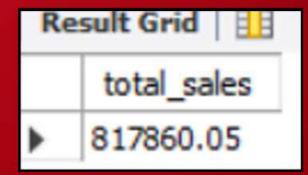
2) AS total_sales

FROM

order_details

JOIN

pizzas ON pizzas.pizza_id = order_details.Pizza_id;
```



IDENTIFY THE HIGHEST-PRICED PIZZA.

Result Grid		
	name	price
١	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

R	Result Grid		
	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;
```

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

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	Result Grid		
	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) AS order_count

FROM

orders

GROUP BY HOUR(order_time);
```

	HOUR(Order_time)	
_		Satisfation in the satisfation i
	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

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT

ROUND(AVG(quantity), 0) as avg_pizza_ordered_per_day

FROM

(SELECT

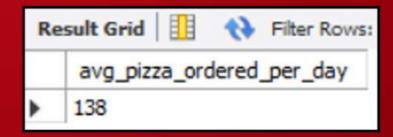
orders.order_date, SUM(order_details.Quantity) AS quantity

FROM

orders

JOIN order_details ON orders.Order_id = order_details.Order_id

GROUP BY orders.Order_date) AS order_quantity;
```



JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.

```
SELECT
category, COUNT(name)
FROM
pizza_types
GROUP BY category;
```

Re	esult Grid	Filter Ro
	category	count(name)
•	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

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	Result Grid	
	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.

R	esult Grid	∰ ♦ Filt
	category	revenue
١	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

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;
```

Re	Result Grid H		
	order_date	cum_revenue	
•	2015-01-01	2713.8500000000004	
	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	23990.3500000000002	
	2015-01-11	25862.65	

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.Pizza_id = pizzas.pizza_id
group by pizza types.category, pizza types.name) as a) as b
where rn <= 3;
```

	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



PIZZA SALES REPORT

SALES PERFORMANCE

The Highest sales in a single day occurred on November 15, generating a revenue of 4,422 Rs. CATEGORY- Classic category contributes to maximum Sales, Total Orders and Total Pizzas sold. SIZE- Large Size, contributes to maximum Total Sales.

50KSum of quantity

818K
Total Revenue

21K

38

Total Orders

AOV



SIZE

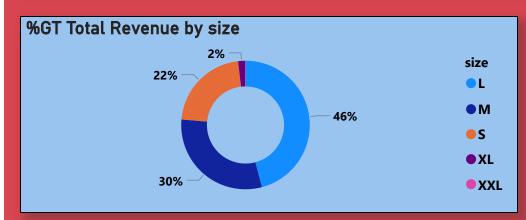
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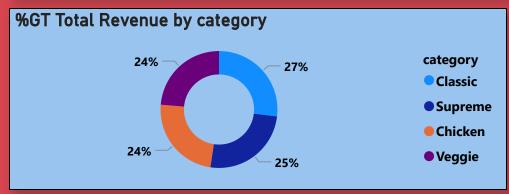
DATE

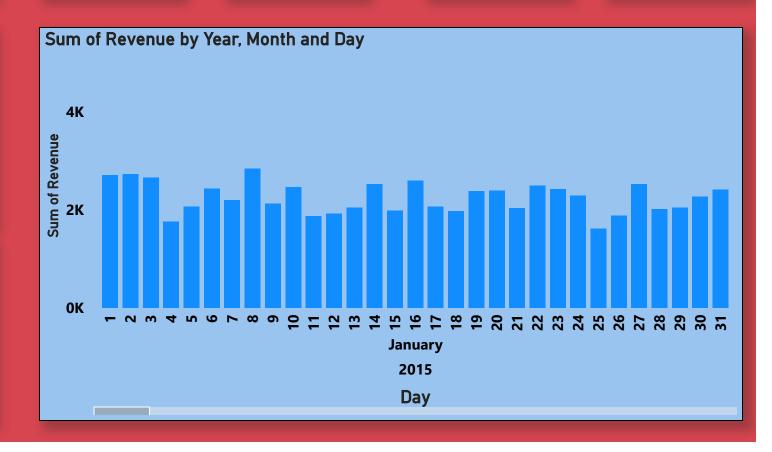
1/1/2015

1/2/2015

1/3/2015







PIZZA NAME	~
☐ The Barbecue Chicken Pizza	
☐ The Big Meat Pizza	
☐ The Brie Carre Pizza	
☐ The Calabrese Pizza	

INGREDIENTS 'Nduja Salami, Pancetta, Tom... Bacon, Pepperoni, Italian Sau... Barbecued Chicken, Red Pep... Brie Carre Cheese, Prosciutto,...

DAY	~
□ 1	
□ 2	
□ 3	
□ 4	

MONTH	~
☐ January	
☐ February	
☐ March	
☐ April	

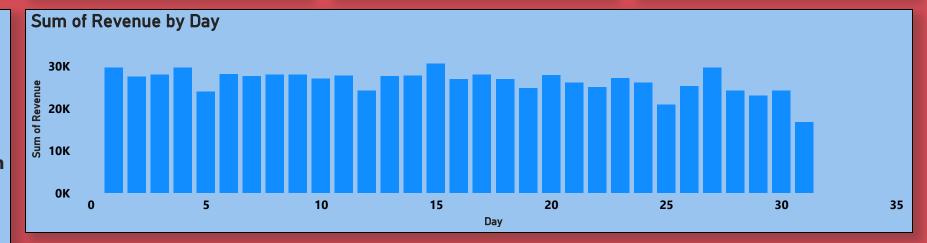
SALES PERFORMANCE

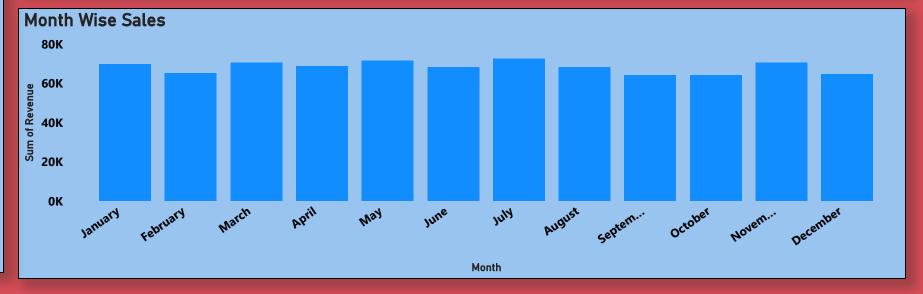
The Highest Revenue for Pizza was in the month of JULY, amounting to ₹ 72,557.

The Lowest Revenue for Pizza was in the month of SEPTEMBER, amounting to ₹ 64,180.

The Highest Sales were recorded on the 15th day of the month.

The Lowest Sales occurred on the last day of month, that is, the 31st.





SALES PERFORMANCE

The Thai Chicken Pizza Has generated the Highest Revenue of ₹ 43,434.

The Brie Carre Pizza has generated the Lowest Revenue of ₹ 11,588.

The Classic Deluxe Pizza has the Highest Quantity sold, with 2,453 units.

The Brie Carre Pizza has the Lowest Quantity sold, with 490 units.

