



"THIS PROJECT FOCUSES ON ANALYZING PIZZA SALES DATA USING SQL TO UNCOVER KEY INSIGHTS AND TRENDS"

# DESCRIPTION





THIS PROJECT INVOLVES RETRIEVING KEY METRICS SUCH AS THE TOTAL ORDERS, TOTAL REVENUE GENERATED, AND IDENTIFYING POPULAR PIZZA TYPES, SIZES, AND CATEGORIES. ADVANCED ANALYSIS INCLUDES EXPLORING REVENUE CONTRIBUTIONS BY EACH PIZZA TYPE, IDENTIFYING ORDER PATTERNS BY TIME OF DAY, AND CALCULATING AVERAGE DAILY ORDERS. THE PROJECT PROVIDES A VIEW OF SALES PERFORMANCE AND CUSTOMER PREFERENCES, ENABLING DECISION-MAKING TO ENHANCE BUSINESS STRATEGIES.

### DATASET OVERVIEW

### Orders Table

Columns: order\_id, order\_date, order\_time. Insight: Helps track the number of orders placed daily, peak order times, and customer ordering patterns.



Columns: order\_detail\_id, order\_id, pizza\_id, quantity.
Insight:Enables analysis of the total quantity sold for each pizza type and size

### Pizzas Table

Columns: pizza\_id, pizza\_type\_id, size, price.
Insight:Useful for identifying high-priced pizzas and understanding sales by pizza type and size.



Pizza\_types Table
Columns: pizza\_type\_id, name, category, ingredients
Insight: Enables analysis of the total quantity sold for each pizza type and size









# Total number of orders placed.



COUNT(order\_id) A5 Total\_Orders

FROM

orders;









### Total revenue generated from pizza sales.

# SELECT ROUND(SUM(order\_details.quantity \* pizzas.price), 2) AS Total\_Revenue FROM order\_details JOIN pizzas ON pizzas.pizza\_id = order\_details.pizza\_id;







# The highest-priced pizza.

Re	esult Grid 📗 🤌	🔖 Filter Ro	
	name	price	
<b>&gt;</b>	The Greek Pizza	35.95	



### The most common pizza size ordered.



### SELECT

```
pizzas.size,

COUNT(order_details.order_detail_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;

T	Result Gr	id 📗 🙌 Filte
	size	order_count
Þ	L	18526
	M	15385
	s	14137
	XL	544
	XXL	28



### 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
۲	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371







# 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;
```









# The distribution of orders by hour of the day.

```
SELECT

HOUR(order_time) AS Hours, COUNT(order_id) AS Order_count

FROM

orders

GROUP BY HOUR(order_time);
```

R	esult Grid	III ♦♦ Filb	
	Hours	Order_count	
<b>&gt;</b>	11	1231	
	12	2520	
þ	13	2455	
	14	1472	
	15	1468	
j.	16	1920	
	17	2336	
	18	2399	
l	19	2009	
	20	1642	
ķ.	21	1198	
	22	663	
Ď.	23	28	
	10	8	
	9	1	







# The category-wise distribution of pizzas

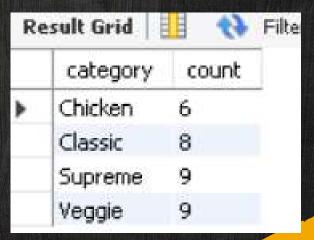
### SELECT

category, COUNT(name)

### FROM

pizza\_types

GROUP BY category;







# 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;
```







# The top 3 most ordered pizza types based on revenue.

```
SELECT
    pizza_types.name AS Name,
    SUM(order_details.quantity * pizzas.price) A5 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 Name
ORDER BY revenue DESC
LIMIT 3;
```

Result Grid   1		
	Name	Revenue
<b>&gt;</b>	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5















### The percentage contribution of each category type to total revenue.

```
SELECT
    pizza types.category A5 Category,
    ROUND(SUM(order_details.quantity * pizzas.price) / (SELECT
                    SUM(order details.quantity * pizzas.price)
                FROM
                    order details
                        JOIN
                    pizzas ON order details.pizza id = pizzas.pizza id) * 100,
            2) AS Revenue_In_Percentage
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_In_Percentage DESC;
```

Result Grid   11 🔷 Filter Rows:			
	Category	Revenue_In_Percentage	
>	Classic	26.91	
	Supreme	25.46	
	Chicken	23.96	
	Veggie	23.68	





### The cumulative revenue generated over date

```
select order_date,
  round(sum(revenue) over(order by order_date),2) as Cumulative_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   B		
	order_date	Cumulative_Revenue	
•	2015-01-01	2713.85	
	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	



# The top 3 most ordered pizza types based 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 ,
round(sum(order details.quantity * pizzas.price), 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, pizza_types. name) as a) as b
where rn<=3;
```

K	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
	Veggie	The Four Cheese Pizza	32265.7
	Veggie	The Mexicana Pizza	26780.75
	Veggie	The Five Cheese Pizza	26066.5





