

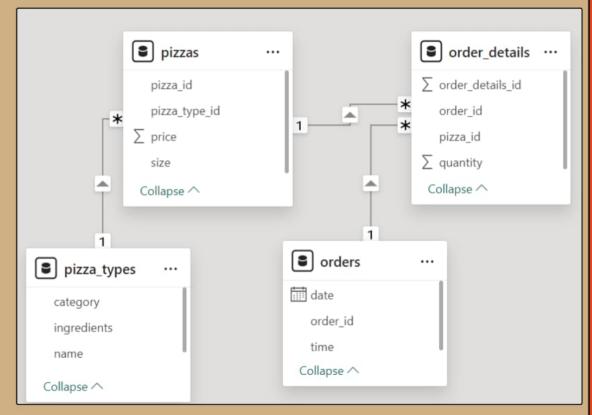


Hi i'm Lavanya Andole. In this Project, I utilized SQL queries including Joins, ranking and subqueries. These database contains four tables: Pizzas, Pizza\_types, orders, order\_details. Using this data I extracted Detailed information on Total sales, Highest Ordered Pizza, The most ordered pizza type and many.



#### Tables:

- 1)Pizzas
- 2)Orders
- 3)pizza\_types
- 4)Order\_details



- 1)Retrieve the total number of orders placed.
- 2) Calculate the total revenue generated from pizza sales.
- 3) Identify the highest-priced pizza.
- 4) Identify the most common pizza size ordered.
- 5)List the top 5 most ordered pizza types along with their quantities.
- 6) Join the necessary tables to find the total quantity of each pizza category ordered.
- 7) Determine the distribution of orders by hour of the day.
- 8) Join relevant tables to find the category-wise distribution of pizzas.
- 9)Group the orders by date and calculate the average number of pizzas ordered per day.
- 10) Determine the top 3 most ordered pizza types based on revenue.
- 11)Calculate the percentage contribution of each pizza type to total revenue.
- 12) Analyze the cumulative revenue generated over time.
- 13)Determine the top 3 most ordered pizza types based on revenue for each pizza category.

### **Total Orders Placed**

```
SELECT

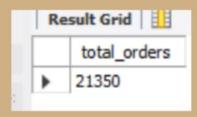
COUNT(order_id) AS total_orders

FROM

orders;
```

The above Query returns total number of orders placed, which is 21350.





## Total Revenue Generated From Pizza Sales.

```
ROUND(SUM(order_details.quantity * pizzas.price),

2) AS total_revenue

FROM

order_details

JOIN

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

The above query Calculates The Total Revenue Generated from the Pizza Sales, Which is 817860.05.





### **Highest-Priced Pizza.**



The above query Calculates The Highest Priced Pizza from the Pizza sales, Which is 35.95.



#### **Most Common Pizza Size Ordered**

The above query tells the distribution of pizza sales ordered, with Large(L),followed by Medium(M) and Small(S).



	size	pizza_count
•	L	18526
	M	15385
	S	14137
	XL	544
	XXL	28

### **Top 5 Most Ordered Pizza Types**

```
select pizza_types.name,
sum(order_details.quantity) as pizza_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 pizza_quantity desc
limit 5;
```



The above query Reveals the Top 5 most ordered Pizza types along with respective quantities.

name	pizza_quantity
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 total_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 total_quantity desc;
```

The above query gives the total quantity of each pizza category ordered. The Classic Pizzas are most popular category followed by supreme, veggie and chicken.



category	total_quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

# Distribution of the Orders by Hours of the Day

SELECT

HOUR(order\_time) AS order\_hour,
COUNT(order\_id) AS order\_count

**FROM** 

orders

GROUP BY order\_hour

ORDER BY order\_count DESC;

The above query Shows the Peak hours for Order placement around 12PM showing the highest no.of orders (2520), followed by 1PM(2455). Order volume decreases after the lunch time and it increases again in the dinner hours.



	order_hour	order_count
٠	12	2520
	13	2455
	18	2399
	17	2336
	19	2009
	16	1920
	20	1642
	14	1472
	15	1468
	11	1231
	21	1198
	22	663
	23	28

### **Category-Wise Distribution of Pizzas**

```
SELECT
    category, COUNT(name) AS Pizza_Types
FROM
    pizza_types
GROUP BY category
order by Pizza_Types Desc;
```

The above query Shows the Category wise Distribution of the Pizzas. The Supreme and Category have the highest diversity of pizza types, and each contains 9 varieties each, followed by Classic with 8 and Chicken with 6.



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	category	Pizza_Types
•	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6

### Average number of Pizzas Ordered Per Dav

```
SELECT

ROUND(AVG(total_quantity_perday), 0) AS avg_pizza_ordered_perday

FROM

(SELECT

orders.order_date,

SUM(order_details.quantity) AS total_quantity_perday

FROM

orders

JOIN order_details ON orders.order_id = order_details.order_id

GROUP BY order_date) AS order_quantity;
```



The above query gives the Average number of pizza ordered perday, which is 138.

avg\_pizza\_ordered\_perday

138

## Top 3 Most Ordered Pizza Type 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
```



The above query gives the Top 3 Most ordered Pizza type Based On Revenue. The Thai Chicken Pizza having Highest revenue of 43434.25 followed by Barbecue Chicken pizza with 42768 and The California Chicken pizza with 41409.5.

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

## Percenage contribution of each pizza type to total Revenue.

```
select pizza_types.category,
round(sum(order_details.quantity*pizzas.price) /(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)*100,2) as Percentage_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
order by Percentage revenue desc;
```

The Above Query tells that Classic Pizza contributes The highest percentage at 26.91%,floowed by supreme at 25.46%,Chicken at 23.96% and Veggie at 23.68%



category	Percentage_revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

**Cumulative Revenue Generated Over Time** 

```
select order_date, revenue,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
round(sum(order_details.quantity*pizzas.price),2) as revenue
```

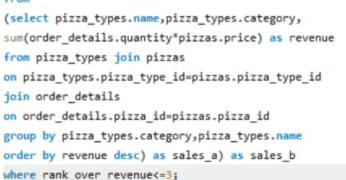
from order\_details join pizzas
on order\_details.pizza\_id=pizzas.pizza\_id
join orders
on orders.order\_id=order\_details.order\_id
group by orders.order\_date
) as sales;

The Above Query gives the Cumulative Revenue Over Time, Providing insights into the Revenue Trend.

ate I	revenue	cum_revenue
01 2	713.85	2713.85
02 2	731.9	5445.75
03 2	662.4	8108.15
04 1	755.45	9863.6
05 2	065.95	11929.55
06 2	428.95	14358.5
07 2	202.2	16560.7
08 2	838.35	19399.05
09 2	127.35	21526.399999999998
10 2	463.95	23990.35
11 1	872.3	25862.649999999998
	01 2 02 2 03 2 04 1 05 2 06 2 07 2 08 2 09 2	01 2713.85 02 2731.9 03 2662.4 04 1755.45 05 2065.95 06 2428.95 07 2202.2 08 2838.35 09 2127.35 10 2463.95

## Top 3 Most Ordered Pizza Type Based On Revenue for each Pizza Category

```
select name, category, revenue, rank_over_revenue from
(select name, category, revenue,
rank() over(partition by category order by revenue desc) as rank_over_revenue
from
```



The Above Query gives the Ranking the pizza types within the respective categories based on Revenue.



name	category	revenue	rank_c
The Thai Chicken Pizza	Chicken	43434.25	1
The Barbecue Chicken Pizza	Chicken	42768	2
The California Chicken Pizza	Chicken	41409.5	3
The Classic Deluxe Pizza	Classic	38180.5	1
The Hawaiian Pizza	Classic	32273.25	2
The Pepperoni Pizza	Classic	30161.75	3
The Spicy Italian Pizza	Supreme	34831.25	1
The Italian Supreme Pizza	Supreme	33476.75	2
The Sicilian Pizza	Supreme	30940.5	3
The Four Cheese Pizza	Veggie	32265.70000000065	1
The Mexicana Pizza	Veggie	26780.75	2
The Five Cheese Pizza	Veggie	26066.5	3

### Conclusion

- Total Pizzas Ordered: 21,350.
- Total Revenue: \$8,17,860 From Pizza Sales.
- Common Pizza Size: Large(L) and Medium(M) are the most most ordered Pizza Sizes.
- High Demand Pizzas: The Classic Deluxe pizza and Barbecue Chicken Pizza have high Demand.
- Popular Varieties: Strong Demand for Classic and supreme Pizza.
- Peak Orderings Times: During lunch and dinner times.
- **Top Revenue Generator**: Thai Chicken Pizza generates highest revenue compare to others.
- **Pizza Contribution:** Classic pizza contributes significantly to sales, with 29% of total orders
- **Revenue Growth**: Revenue has been increasing over time, indicating consistent growth.







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