





### PIZZA SALES ANALYSIS

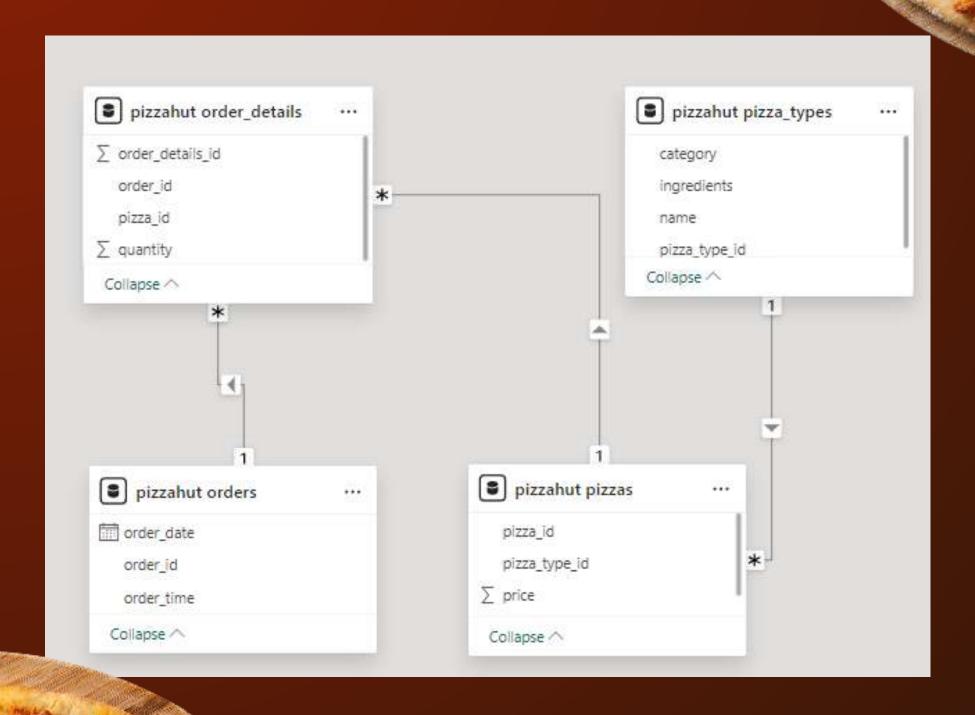
### Hello!!

My name is Minal Bhivgade.

In this project, I have utilized SQL queries to solve questions related to pizza sales.



#### Data Model







### Basic Queries





## Retrieve the total number of orders placed.

```
SELECT

COUNT(order_id) AS total_orders

FROM

orders;
```

The result shows that there are 21,350 orders placed.







## Calculate the 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 total revenue generated from pizza sales is 817,860.05.



### Identify the highest-priced pizza.

```
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;
```

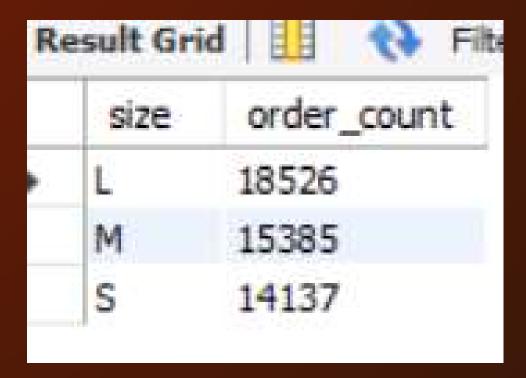
Re	sult Grid	> Filter F
	name	price
>	The Greek Pizza	35.95

Most Common Pizza Size Ordered: The Greek Pizza



## Identify the most common pizza size ordered.





Most Common Pizza Size Ordered: Large (L) with 18,526 orders

### List the top 5 most ordered pizza types along with their quantities.

The most ordered pizza
types are The Classic
Deluxe Pizza with 2,453
orders, followed by The
Barbecue Chicken Pizza at

2,432, The Hawaiian Pizza at 2,422, The Pepperoni Pizza at 2,418, and The Thai Chicken Pizza at 2,371.

name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	243 2453
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371



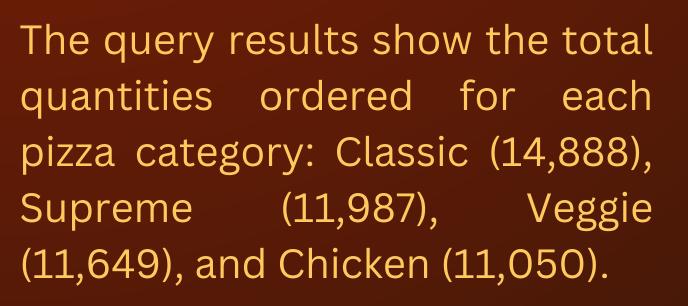


# Intermediate Queries



## 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 category
ORDER BY quantity DESC;
```





category quant	ity
Classic 14888	ġ.
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) AS order_cout

FROM

orders

GROUP BY hour;
```

The distribution of orders by hour of the day shows peaks at 12 PM with 2,520 orders and 5 PM with 2,336 orders, reflecting typical mealtime patterns.

Result Grid		
	hour	order_cout
٠	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336



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

```
select category,count(name)
from pizza_types
group by category;
```

The distribution shows 6
pizzas in the Chicken
category, 8 in Classic, and 9
each in Supreme and
Veggie categories.

Result Grid   1		
	category	count(name)
١	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9





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

```
SELECT

ROUND(AVG(quantity), 0) AS avg_quantity

FROM

(SELECT

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

FROM

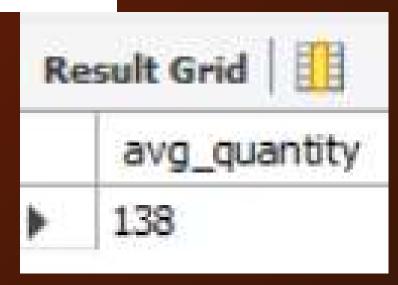
orders

JOIN order_details ON orders.order_id = order_details.order_id

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

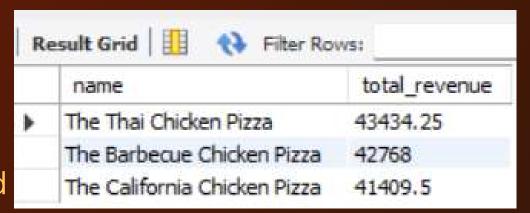
The average number of Pizza ordered is 138





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

The top 3 most ordered pizza types based on revenue are The Thai Chicken Pizza (43,434.25), The Barbecue Chicken Pizza (42,768), and The California Chicken Pizza (41,409.5).





### Advanced Queries



# Calculate the percentage 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 revenue
                FROM
                    order_details
                        JOIN
                    pizzas ON pizzas.pizza id = order details.pizza id) * 100,
            2) 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 pizza types.category
ORDER BY revenue DESC;
```





The percentage contribution of each pizza category to total revenue shows Classic at 26.91%, Supreme at 25.46%, Chicken at 23.96%, and Veggie at 23.68%

Re	esult Grid	H 🙌 Filte
	category	revenue
	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;
```

The cumulative revenue generated over time shows a progression from 2,713.85 on 2015-01-01 to 19,399.05 on 2015-01-08.

Re:	sult Grid 🔠	Filter Rows:
	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

# 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;</pre>
```

highlighting popular choices like The Thai Chicken Pizza and The Classic Deluxe Pizza across different categories.



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