



# WELCOME TO PIZZAHOUSE

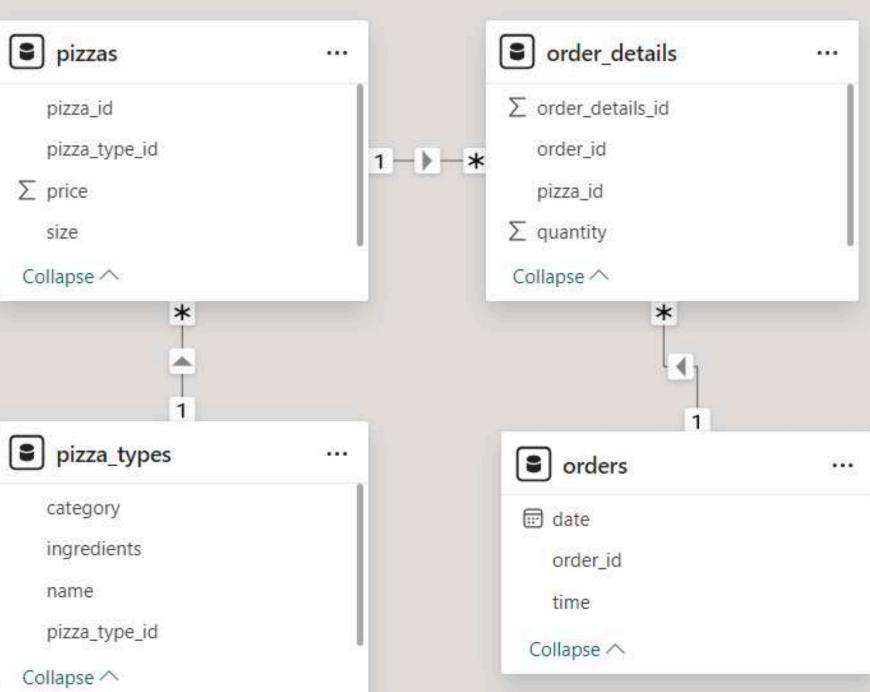
#### INTRODUCTION

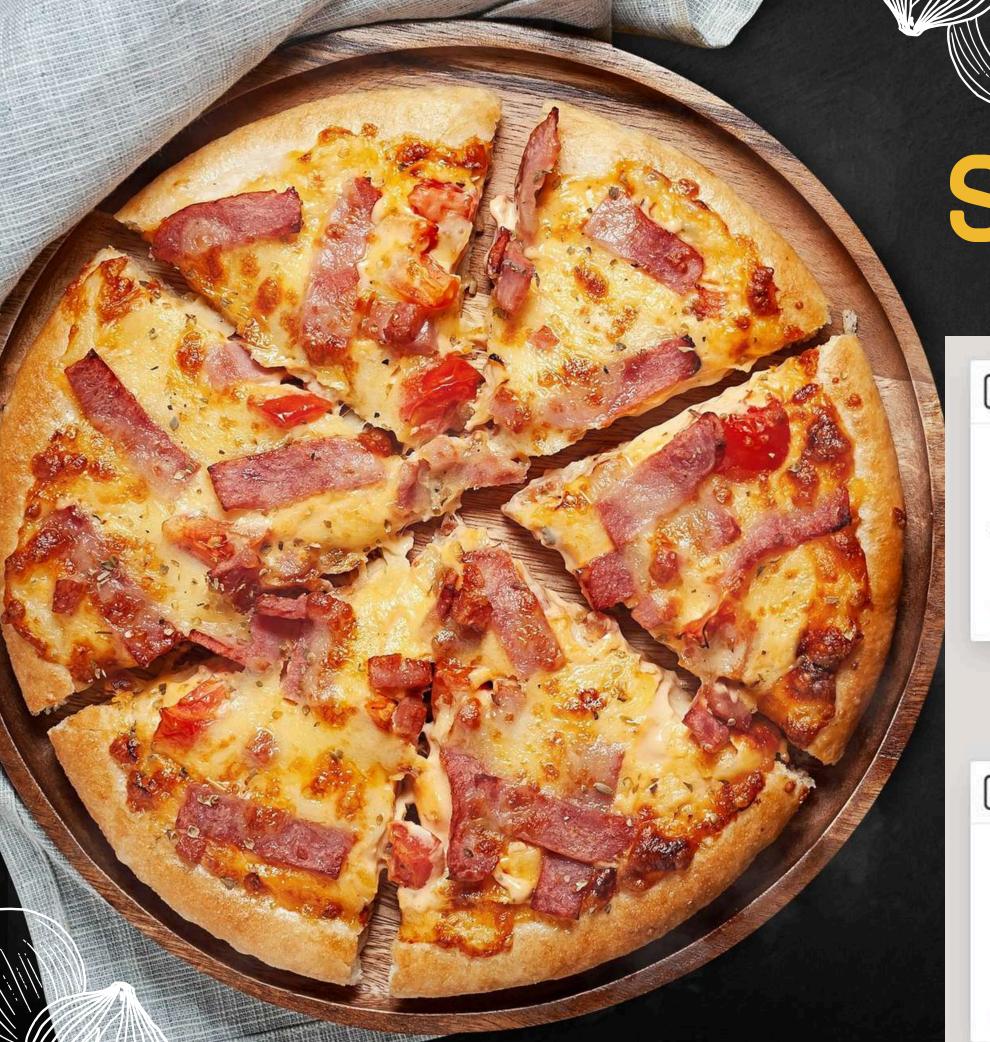
In this project, I conducted an in-depth analysis of Pizzahouse's pizza sales data using SQL. The dataset covered various pizza types, orders, and customer transactions over a defined time period. By utilizing SQL queries, I uncovered sales trends, highlighted best-selling pizzas, and explored customer purchasing habits. These insights can play a crucial role in optimizing inventory management, refining marketing strategies, and enhancing overall business performance through datadriven decisions.



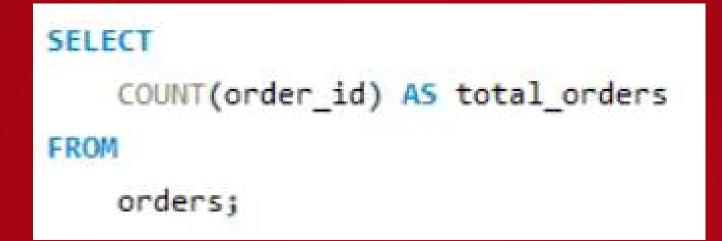


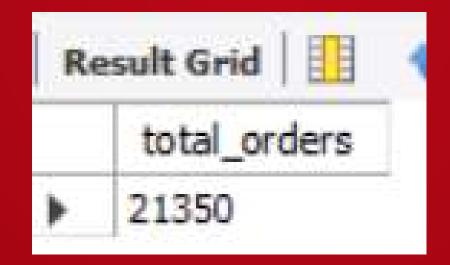
## SCHEMA





## RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.







## CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

# SELECT ROUND(SUM(orders\_details.quantity \* pizzas.price), 2) AS total\_sales FROM orders\_details JOIN pizzas ON orders\_details.pizza\_id = pizzas.pizza\_id; Result Grid

total\_sales

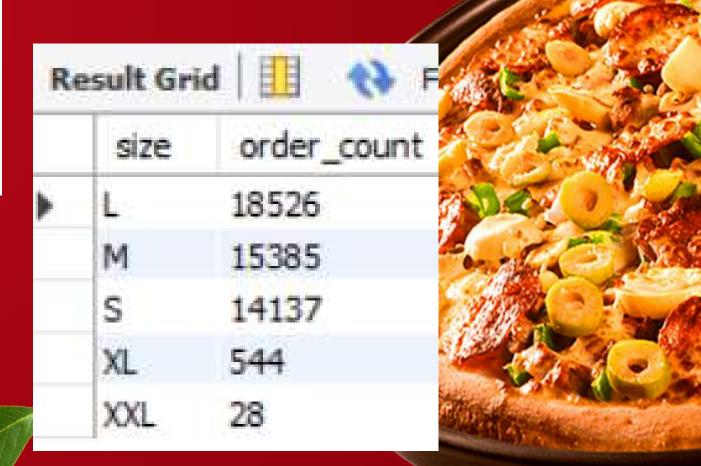
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#### IDENTIFY THE HIGHEST-PRICED PIZZA



## IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.



# LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.



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.

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) AS order\_count

FROM

orders

GROUP BY HOUR(order\_time)

ORDER BY order\_count DESC;

hour	order_count
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642





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

SELECT

category, COUNT(NAME)

FROM

pizza\_types

GROUP BY category;

category	COUNT (NAME)
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_pizza_ordered_per_day

FROM

(SELECT

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

FROM

orders

JOIN orders_details ON orders.order_id = orders_details.order_id

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

avg\_pizza\_ordered\_per\_day

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# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

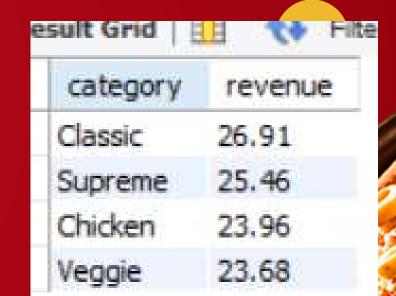
```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

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.

```
SELECT
    pizza_types.category,
    ROUND((SUM(orders_details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(orders_details.quantity * pizzas.price),
                                2) AS total_sales
                FROM
                    orders_details
                        JOIN
                    pizzas ON orders_details.pizza_id = pizzas.pizza_id)) * 100,
            2) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    orders_details ON orders_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```



## 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(orders_details.quantity*pizzas.price) AS revenue

FROM orders_details JOIN pizzas

ON orders_details.pizza_id=pizzas.pizza_id

JOIN orders

ON orders.order_id=orders_details.order_id

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

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

#### 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((orders_details.quantity*pizzas.price)) AS revenue

FROM pizza_types JOIN pizzas

ON pizza_types.pizza_type_id=pizzas.pizza_type_id

JOIN orders_details

ON orders_details.pizza_id=pizzas.pizza_id

GROUP BY pizza_types.category, pizza_types.name) AS a) AS b

WHERE rn<=3;
```

revenue
43434.25
42768
41409.5
38180.5
32273.25
30161.75
34831.25

