



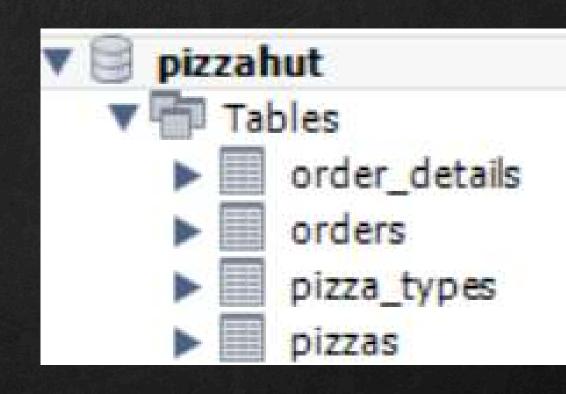
ABOUT DATASET

This dataset captures transactional data for a pizza delivery business, including order details, pizza types, sizes, quantities, and sales revenue. It offers insights into customer preferences, peak order times, and topperforming products. By analyzing this data, businesses can optimize inventory, refine marketing strategies, and improve operational efficiency to drive profitability and customer satisfaction.















RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED?

SELECT

COUNT(order_id) AS total_orders

FROM

orders;

total_orders

•

21350





CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES?

```
SELECT

ROUND(SUM(p.price * od.quantity), 2) AS total_revenue

FROM

pizzas p

JOIN

order_details od ON p.pizza_id = od.pizza_id;
```

total_revenue ▶ 817860.05





IDENTIFY THE HIGHEST-PRICED PIZZA?

```
pt.name, p.price

FROM

    pizzas p
        JOIN

    pizza_types pt ON p.pizza_type_id = pt.pizza_type_id

ORDER BY p.price DESC

LIMIT 1;
```

name	e Greek Pizza 35.95
I I I the back the back to be been been been been been been been	35.95





IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED?

```
p.size, COUNT(od.order_id) AS order_count
FROM
    order_details od
        JOIN
    pizzas p ON p.pizza_id = od.pizza_id
GROUP BY p.size
ORDER BY order_count DESC
LIMIT 1;
```

size order_count L 18526



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

```
SELECT
    pt.name, SUM(od.quantity) AS quantity
FROM
    order_details od
        JOIN
    pizzas p ON p.pizza_id = od.pizza_id
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
GROUP BY pt.name
ORDER BY quantity DESC
LIMIT 5;
```

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.E TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES?

```
SELECT
    pt.category, SUM(od.quantity) AS quantity
FROM
    pizzas p
        JOIN
    pizza_types pt ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.category
ORDER BY quantity DESC;
```

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
14	1472
15	1468
11	1231
21	1198
22	663
23	28
10	8
9	1
TE TUSE	

HOUR OPDED COUNT





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

```
SELECT
    category, COUNT(pizza_type_id) AS order_count
FROM
    pizza_types
GROUP BY category;
```

order_count
6
8
9
9





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

```
SELECT
    ROUND(AVG(quantity), 0) AS Avg_pizzas_ordered_per_day
FROM
    (SELECT
          o.order_date, SUM(od.quantity) AS quantity
FROM
          orders o
          JOIN order_details od ON o.order_id = od.order_id
          GROUP BY o.order_date) AS order_quantity;
```

Avg_pizzas_ordered_per_day

138



DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE?

name	revenue
The Thai Chicken Pizza	43434
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41410



CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE?

category	revenue
Classic	26.91
Veggie	23.68
Supreme	25,46
Chicken	23.96



ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME?

```
SELECT order_date, SUM(revenue) OVER (ORDER BY order_date) AS cumulative_revenue FROM (SELECT o.order_date, ROUND(SUM(quantity*price),2) AS revenue FROM orders o

JOIN order_details od

ON o.order_id = od.order_id

JOIN pizzas p

ON p.pizza_id = od. pizza_id

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

	order_date	cumulative_revenue
	2015-01-01	2713.85
	2015-01-02	5445.75
Į.	2015-01-03	8108.15
	2015-01-04	9863.6
	2015-01-05	11929.55





DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY?

```
SELECT category, name, revenue,

(SELECT category, name, revenue,

RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS ranking FROM

(SELECT pt.category, pt.name, ROUND(SUM(od.quantity*p.price),2) AS revenue

FROM pizzas p

JOIN order_details od

ON p.pizza_id = od.pizza_id

JOIN pizza_types pt

ON pt.pizza_type_id = p.pizza_type_id

GROUP BY pt.category, pt.name) as a) AS b

WHERE ranking <= 3;
```

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





INSIGHTS

• **Top-Selling Pizza:** The Thai Chicken Pizza is the most popular, driving significant sales.

 Most Popular Pizza Size: Large size is consistently preferred by customers.

Top 5 Pizza Types by Quantity: Certain pizza types such as The Classic Deluxe Pizza, The Barbecue Chicken Pizza, The Hawaiian Pizza, The Pepperoni Pizza, The Thai Chicken Pizza dominate orders, highlighting customer favorites.

 Hourly Order Distribution: Peak order times occur during lunch and dinner hours, showing demand patterns.

 Category-Wise Performance: Different categories significantly contribute to revenue and sales volume.





RECOMENDATIONS

• Focus on Best Sellers: Prioritize the Thai Chicken Pizza and other top performers to sustain customer demand.

 Optimize Inventory: Stock inventory based on popular sizes and pizza types to reduce waste.
 Peak Hour Strategies: Enhance staffing and kitchen readiness during peak times to maximize efficiency.

• Targeted Promotions: Promote top pizza categories and sizes through strategic marketing campaigns.

• **Expand High-Performing Categories:** Introduce new options in successful categories to attract more customers.



