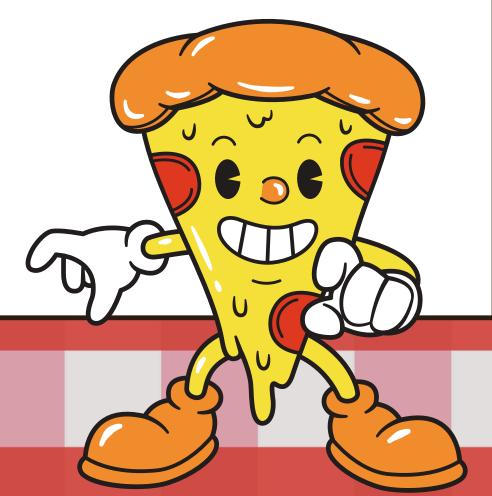
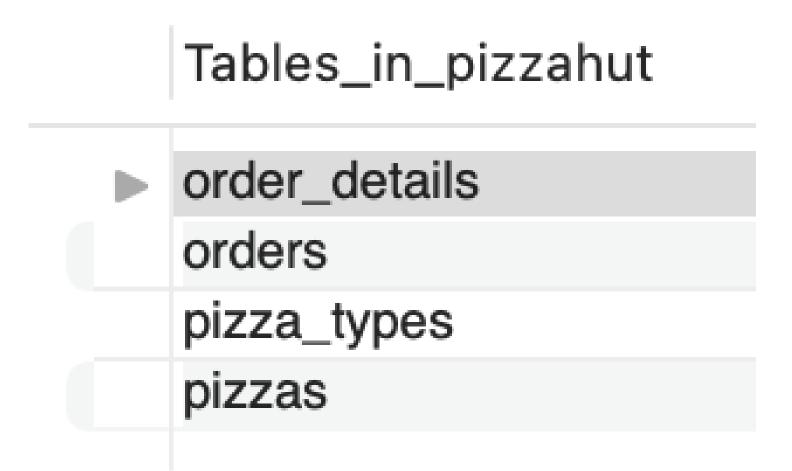
PIZZA STORE

ANALYSIS



Pizza Store Database

- Our database named "pizzahut" consists of 4 tables containing information about the orders and pizzas.
- "Order_details" has details about the order with 4 columns of data.
- "orders' has order information about date and time of the order.
- "pizza_types" has details about the type of pizza that was ordered.
- "pizzas" has information about size and price of the pizza.



Tables

Order_details

	Field	Type	Null	Key	Default Extra
>	order_details_id	int	NO	PRI	NULL
	order_id	int	NO		NULL
	pizza_id	text	NO		NULL
	quantity	int	NO		NULL

Orders

	Field	Туре	Null	Key	Default Extra
	order_id	int	NO	PRI	NULL
	order_date	datetime	NO		NULL
	order_time	time	NO		NULL

Pizzas

	Field	Type	Null	Key	Default	Extra
	pizza_id	text	YES		NULL	
	pizza_type_id	text	YES		NULL	
	size	text	YES		NULL	
	price	double	YES		NULL	

pizza_types

	Field	Type	Null	Key	Default	Extra
	pizza_type_id	text	YES		NULL	
	name	text	YES		NULL	
	category	text	YES		NULL	
	ingredients	text	YES		NULL	

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(order_details.quantity * pizzas.price),
           2) AS total_price
FROM
   order_details
       JOIN
   pizzas ON pizzas.pizza_id = order_details.pizza_id;
                      total_price
                     817860.05
```

Identify the highest priced pizza

```
SELECT
   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;
                                 price
      name
```

The Greek Pizza 35.95

Identify the most common pizza size ordered

	size	order_count
▶	L	18526

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

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity) AS quantity_ordered
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_ordered DESC
LIMIT 5;
```

	name	quantity_order
	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

```
SELECT
    pizza_types.category AS 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	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day

```
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

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(sum_quantity)) AS avg_daily_orders
FROM
    (SELECT
       orders.order_date AS date,
            SUM(order_details.quantity) AS sum_quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY date) AS order_quantity;
                      avg_daily_orders
```

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Determine the top 3 most ordered pizza types based on revenue

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

category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Analyze the cumulative revenue generated over time

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
2015-01-09	21526.4
2015-01-10	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001
2015-01-17	39001.75000000001
2015-01-18	40978.600000000006
2015-01-19	43365.75000000001
2015-01-20	45763.65000000001
2015-01-21	47804.20000000001
2015-01-22	50300.90000000001
2015-01-23	52724.600000000006
2015-01-24	55013.850000000006
2015-01-25	56631.40000000001
2015-01-26	58515.80000000001
2015-01-27	61043.85000000001
2015-01-28	63059.85000000001
2015-01-29	65105.150000000016
2015-01-30	67375.45000000001
2015-01-31	69793.30000000002

Determine the top 3 most ordered pizza types based on revenue for each pizza category

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