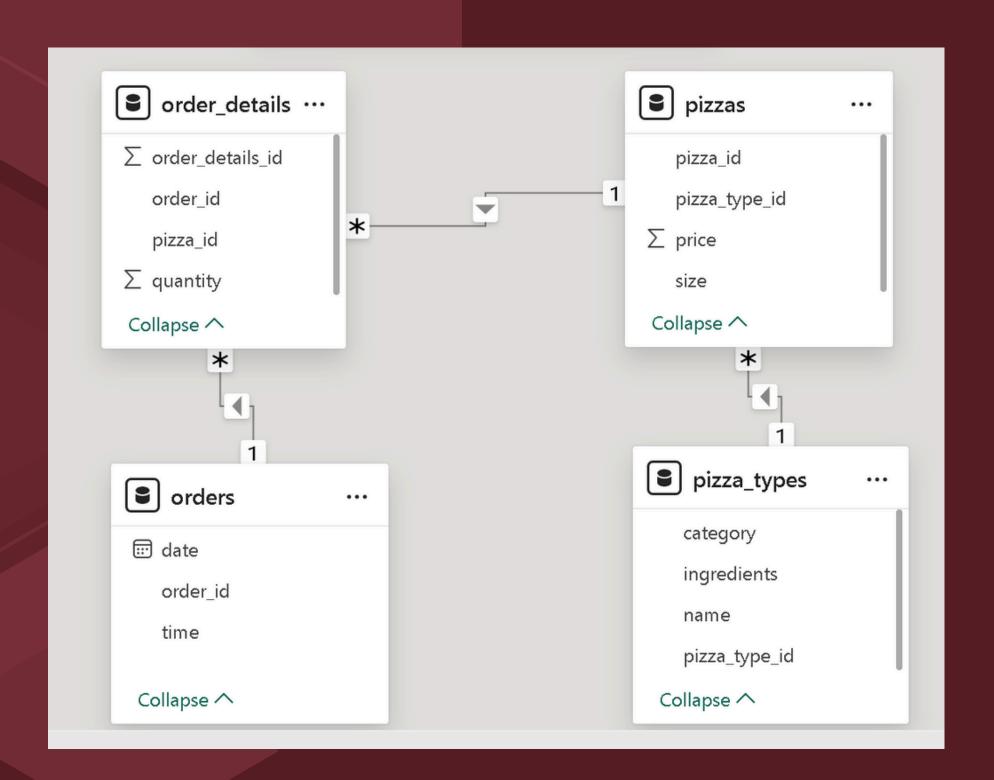
HELLO!

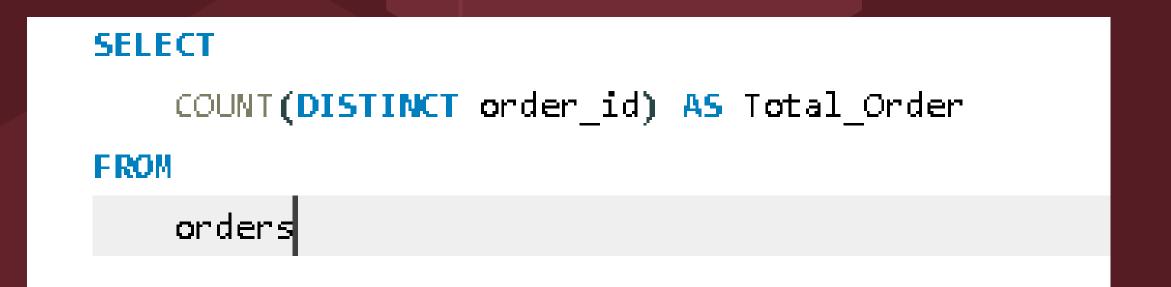
- -- Hello, my name is Talha Shahzad and today I will write SQL queries related to pizza sales.
- -- We will explore various aspects of the data to gain meaningful insights.
- -- This includes analyzing orders, revenue, and popular pizza types.
- -- Let's get started with seeing schema

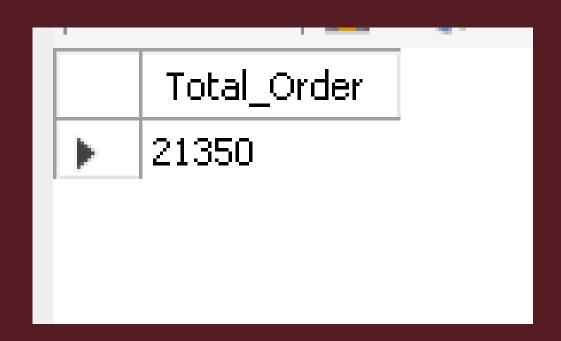


SCHEMA



Retrieve the total number of orders placed.





Calculate the total revenue generated from pizza sales.

```
SELECT

SUM(od.quantity * p.price) AS TOTAL_SALES

FROM

pizzas p

JOIN

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

TOTAL_SALES 817860.049999993

Identify the highest-priced pizza.

```
SELECT
   pt.name, p.price
FROM
   pizzas AS p
        JOIN
   pizza_types AS pt ON p.pizza_type_id = pt.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered.

```
SELECT
    p.size, COUNT(od.order_details_id) AS order_count
FROM
    pizzas AS p
        JOIN
    order_detail AS od ON p.pizza_id = od.pizza_id
GROUP BY 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 total_quantity
FROM
    order detail AS od
        JOIN
    pizzas AS p ON p.pizza_id = od.pizza_id
        JOIN
    pizza_types AS pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.name
ORDER BY total_quantity
LIMIT 5;
```

name	total_quantity
The Brie Carre Pizza	490
The Mediterranean Pizza	934
The Calabrese Pizza	937
The Spinach Supreme Pizza	950
The Soppressata Pizza	961

Join the necessary tables to find the total quantity of each pizza category ordered.

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

category	total_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 total_order
FROM
Orders
GROUP BY HOUR(order_time)
ORDER BY total_order DESC;
```

hour	total_order
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
21	1198
22	663

Join relevant tables to find the categorywise distribution of pizzas.

```
SELECT
    category, COUNT(name) AS Total_pizza
FROM
    pizza_types
GROUP BY category;
```

category	Total_pizza
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)

FROM

(SELECT

o.order_date, SUM(quantity) AS Quantity

FROM

orders AS o

JOIN order_detail AS od ON o.order_id = od.order_id

GROUP BY o.order_date) AS TOTAL_QUANTITY
```

ROUND(AVG(quantity), 0)

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

```
SELECT
    pt.name, SUM(od.quantity * p.price) AS total_revenue
FROM
    order_detail AS od
        JOIN
    pizzas AS p ON p.pizza_id = od.pizza_id
        JOIN
    pizza_types AS pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.name
ORDER BY total_revenue DESC
LIMIT 3;
```

name	total_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.

```
WITH total_revenue AS (

SELECT SUM(od.quantity * p.price) AS total_rev

FROM order_detail od

JOIN pizzas p ON od.pizza_id = p.pizza_id
)

SELECT

pt.category,

concat(round(SUM(od.quantity * p.price) / (SELECT total_rev FROM total_revenue) * 100, 2), '%') AS percentage_contribution

FROM

order_detail AS od

JOIN pizzas AS p ON p.pizza_id = od.pizza_id

JOIN pizzas AS p ON p.pizza_type_id = pt.pizza_type_id

GROUP BY pt.category

ORDER BY percentage_contribution DESC;
```

category	percentage_contribution
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	2713.85
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	23990.35
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.3
2015-01-14	32358.7
2015-01-15	34343.5
2015-01-16	36937.65
2015-01-17	39001.75



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

name	total_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
ו ו	The Thai Chicken Pizza The Barbecue Chicken Pizza The California Chicken Pizza The Classic Deluxe Pizza The Hawaiian Pizza The Pepperoni Pizza The Spicy Italian Pizza The Italian Supreme Pizza The Sicilian Pizza The Four Cheese Pizza



THANK YOU

02 May, 2024