Pizza Sales Analysis Using SQL

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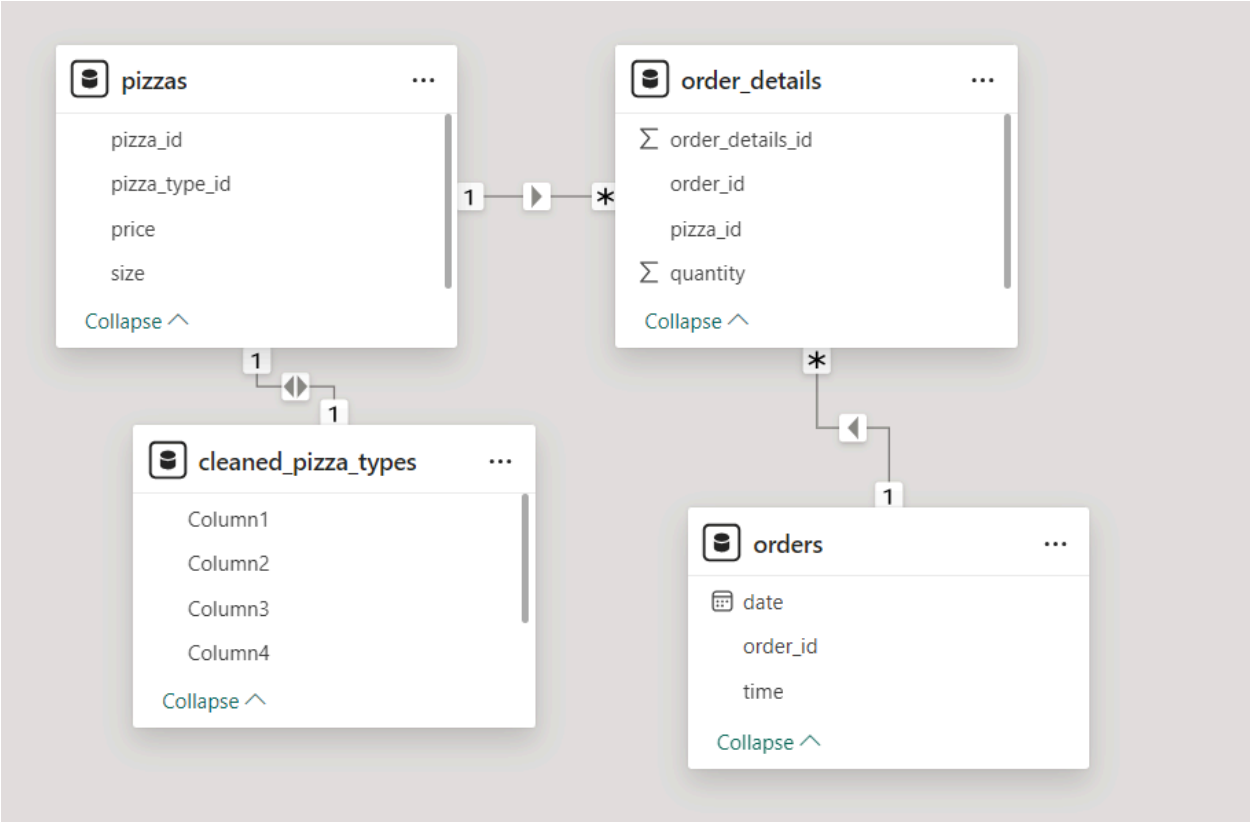
Schema


pizzas
pizza_id
pizza_type_id
price
size
Collapse
order_details
order_details_id
order_id
pizza_id
quantity
Collapse
cleaned_pizza_types
Column1
Column2
Column3
Column4
Collapse
orders
date
order_id
time
Collapse
1
*

1.Retrieve the total number of orders placed.

```
 7 SELECT
 8 COUNT(order_id) as Total_order
 9 FROM
10 orders;
```

Output:

line 9, column 5, location 74

	Total_order
1	21350

2.Calculate the total revenue generated from pizza sales

```sql
SELECT
round(SUM(order_details.quantity*pizzas.price),2) as Total_Revune
FROM
pizzas
inner JOIN
order_details
on pizzas.pizza_id=order_details.pizza_id;
```

Output:

line 23, column 11, location 219

	Total_Revune
1	817860.05

3.Identify the highest priced

```sql
SELECT
    cleaned_pizza_types.name,
    pizzas.price
FROM
    cleaned_pizza_types
JOIN
    pizzas
ON
    cleaned_pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY
    pizzas.price DESC
LIMIT 1;
```

Output:

line 44, column 32, location 555

	name	price
1	The Greek Pizza	35.95

4.Identify the most common pizza size ordered

```sql
41
42 SELECT
43     c.name,
44     SUM(o.quantity) AS quantity
45 FROM
46     cleaned_pizza_types AS c
47 JOIN
48     pizzas AS p
49     ON c.pizza_type_id = p.pizza_type_id
50 JOIN
51     order_details AS o
52     ON o.pizza_id = p.pizza_id
53 GROUP BY
54     c.name
55 ORDER BY
56     quantity DESC
57 ;
58
```

Output

line 54, column 11, location 743

	name	quantity
7	The Sicilian Pizza	1938
8	The Spicy Italian Pizza	1924
9	The Southwest Chicken Pi…	1917
10	The Big Meat Pizza	1914
11	The Four Cheese Pizza	1902
12	The Italian Supreme Pizza	1884
13	The Vegetables + Vegetab…	1526
14	The Mexicana Pizza	1484
15	The Napolitana Pizza	1464
16	The Prosciutto and Arugu…	1457
17	The Pepper Salami Pizza	1446
18	The Spinach and Feta Piz…	1446
19	The Italian Capocollo Pi…	1438
20	The Greek Pizza	1420

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

```sql
SELECT
    c.name,
    SUM(o.quantity) AS quantity
FROM
    cleaned_pizza_types AS c
JOIN
    pizzas AS p
    ON c.pizza_type_id = p.pizza_type_id
JOIN
    order_details AS o
    ON o.pizza_id = p.pizza_id
GROUP BY
    c.name
ORDER BY
    quantity DESC
LIMIT 5;
```

Output

line 57, column 12, location 785

	name	quantity
1	The Classic Deluxe Pizza	2453
2	The Barbecue Chicken Piz…	2432
3	The Hawaiian Pizza	2422
4	The Pepperoni Pizza	2418
5	The Thai Chicken Pizza	2371

6.Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(time) AS hour_,
    COUNT(order_id) AS order_count
FROM
    orders
GROUP BY
    HOUR(time);
```

Output:

line 77, column 47, location 1104

	hour_	order_count
1	9	1
2	10	8
3	11	1231
4	12	2520
5	13	2455
6	14	1472
7	15	1468
8	16	1920
9	17	2336
10	18	2399
11	19	2009
12	20	1642

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

```
142
143 SELECT
144     category,
145     COUNT(name)
146 FROM
147     cleaned_pizza_types
148 GROUP BY
149     category;
150
```

Output

line 153, column 1, location 2546

	category	COUNT(name)
1	Chicken	6
2	Classic	8
3	Supreme	9
4	Veggie	9

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

```sql

SELECT
    ROUND(AVG(quantity), 0) AS avg_pizza_order_per_day
FROM
    (
        SELECT
            DATE(orders.date) AS order_date,
            SUM(order_details.quantity) AS quantity
        FROM
            orders
        JOIN
            order_details
        ON
            orders.order_id = order_details.order_id
        GROUP BY
            DATE(orders.date)
    ) AS order_quantity;

```

Output

	avg_pizza_order_per_day
1	138

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

```sql
SELECT
    c.name AS pizza_type,
    ROUND(SUM(o.quantity * p.price), 0) AS revenue
FROM
    cleaned_pizza_types AS c
JOIN
    pizzas AS p
    ON p.pizza_type_id = c.pizza_type_id
JOIN
    order_details AS o
    ON o.pizza_id = p.pizza_id
GROUP BY
    c.name
ORDER BY
    revenue DESC
LIMIT 3;
```

Output

line 106, column 1, location 1654

	pizza_type	revenue
1	The Thai Chicken Pizza	43434
2	The Barbecue Chicken P…	42768
3	The California Chicken…	41410

10.Calculate the percentage contribution of each pizza type to total revenue

```sql
SELECT
    c.category,
    ROUND(
        SUM(o.quantity * p.price) /
        (SELECT ROUND(SUM(o1.quantity * p1.price), 2)
         FROM order_details AS o1
         JOIN pizzas AS p1 ON p1.pizza_id = o1.pizza_id), 2
    ) * 100 AS revenue
FROM
    cleaned_pizza_types AS c
JOIN
    pizzas AS p ON c.pizza_type_id = p.pizza_type_id
JOIN
    order_details AS o ON o.pizza_id = p.pizza_id
GROUP BY
    c.category
ORDER BY
    revenue DESC;
```

Output:

line 133, column 45, location 2283

	category	revenue
1	Classic	27.00
2	Supreme	25.00
3	Veggie	24.00
4	Chicken	24.00