WELCOME TO SQL PROJECT ON PIZZA SALES

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ABOUT THE PROJECT

In this project, I utilized SQL queries to analyze and address various questions related to pizza sales data.

QUESTIONS

- Retrieve the total number of orders placed.
- Calculate the total revenue generated from pizza sales.
- Identify the highest-priced pizza.
- Identify the most common pizza size ordered.
- List the top 5 most ordered pizza types along with their quantities.
- Join the necessary tables to find the total quantity of each pizza category ordered.
- Determine the distribution of orders by hour of the day.
- Join relevant tables to find the category-wise distribution of pizzas.
- Group the orders by date and calculate the average number of pizzas ordered per day.

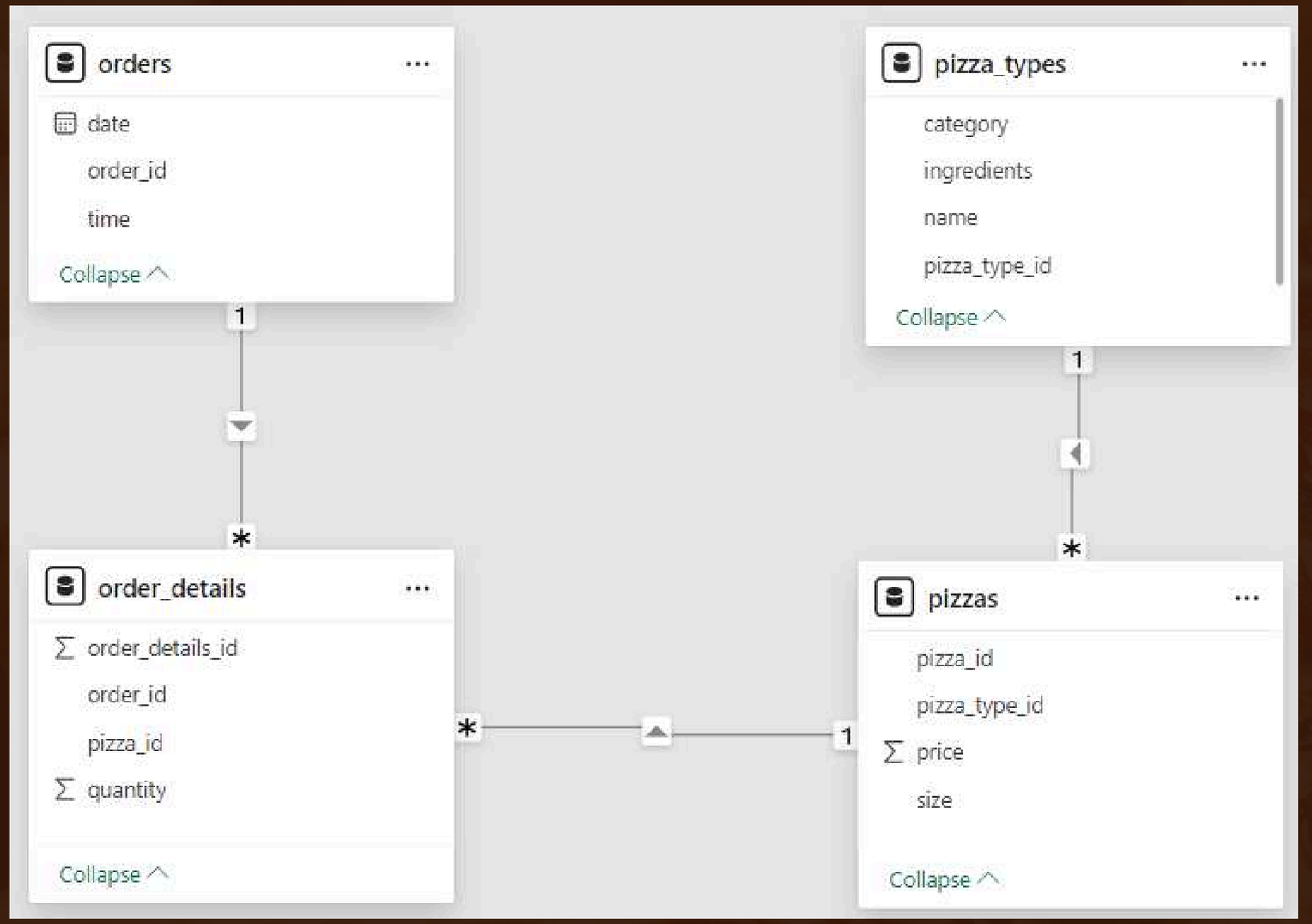
QUESTIONS

- Determine the top 3 most ordered pizza types based on revenue.
- Calculate the percentage contribution of each pizza type to total revenue.
- Analyze the cumulative revenue generated over time.
- Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Tool Used

MySQL®

DATA MODEL


orders
date
order_id
time
Collapse
pizza_types
category
ingredients
name
pizza_type_id
Collapse
1
1
*
*
order_details
order_details_id
order_id
pizza_id
quantity
Collapse
*
1
pizzas
pizza_id
pizza_type_id
price
size
Collapse

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED

```
Select
count(order_id) as Total_Orders
From
orders
```

Result Grid

	Total_Orders
▶	21350

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES

Result Grid

	Total_Sales
▶	817860.05

```
SELECT
    ROUND(SUM(orders_details.quantity * pizzas.price),
            2) AS Total_Sales
FROM
    orders_details
        JOIN
    pizzas ON pizzas.pizza_id = orders_details.pizza_id;
```

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;
```

Result Grid | Filter Rows

	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED

```
SELECT
    pizzas.size,
    COUNT(orders_details.order_details_id) AS total_count
FROM
    pizzas
        JOIN
    orders_details ON pizzas.pizza_id = orders_details.pizza_id
GROUP BY pizzas.size
ORDER BY total_count DESC
```

Result Grid | Filter Rows:

	name	price
▶	The Greek Pizza	35.95

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

```
SELECT
    pizza_types.name, SUM(orders_details.quantity) AS quantity
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.name
ORDER BY quantity DESC
LIMIT 5;
```

Result Grid | Filter Rows:

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

```
SELECT
    pizza_types.category,
    SUM(orders_details.quantity) AS quantity
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.category
ORDER BY quantity DESC;
```

Result Grid | Filter R

category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY

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

Result Grid | Filter Rows:

HOUR(time)	order_count
23	28
22	663
21	1198
20	1642
19	2009
18	2399
17	2336
16	1920
15	1468
14	1472
13	2455
12	2520
11	1231
10	8
9	1

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

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

Result Grid | Filter Rows

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_order_per_day
FROM
    (SELECT
        orders.date, SUM(order_details.quantity) AS quantity
    FROM
        orders
    JOIN order_details ON orders.order_id = order_details.order_id
    GROUP BY orders.date) AS order_quatity;
```

	Avg_order_per_day
▶	138

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE

```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) 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 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(order_details.quantity * pizzas.price) /
    (SELECT ROUND(SUM(order_details.quantity * pizzas.price), 2) AS Total_Sales
     FROM order_details
     JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id)) * 100,2) AS Revenue
FROM
    order_details
JOIN pizzas ON order_details.pizza_id = pizzas.pizza_id
JOIN pizza_types ON pizzas.pizza_type_id =
pizza_types.pizza_type_id
GROUP BY pizza_types.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

```
Select date,
ROUND(sum(revenue) over(order by date),2) as Cumilitive_Revenue
from
(Select orders.date,
sum(order_details.quantity * pizzas.price) as Revenue
from order_details join pizzas
on order_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = order_details.order_id
Group By orders.date) as Sales;
```

date	Cumilitive_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

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,
       ROUND(SUM(order_details.quantity * pizzas.price),
 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 pizza_types.category, pizza_types.name
    ) AS revenue_summary) AS ranked_revenue
WHERE rn <= 3;
```

	name	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	32265.7
	The Mexicana Pizza	26780.75
	The Five Cheese Pizza	26066.5

Pizza Resto Presentation

THANK YOU FOR ATTENTION

See You Next