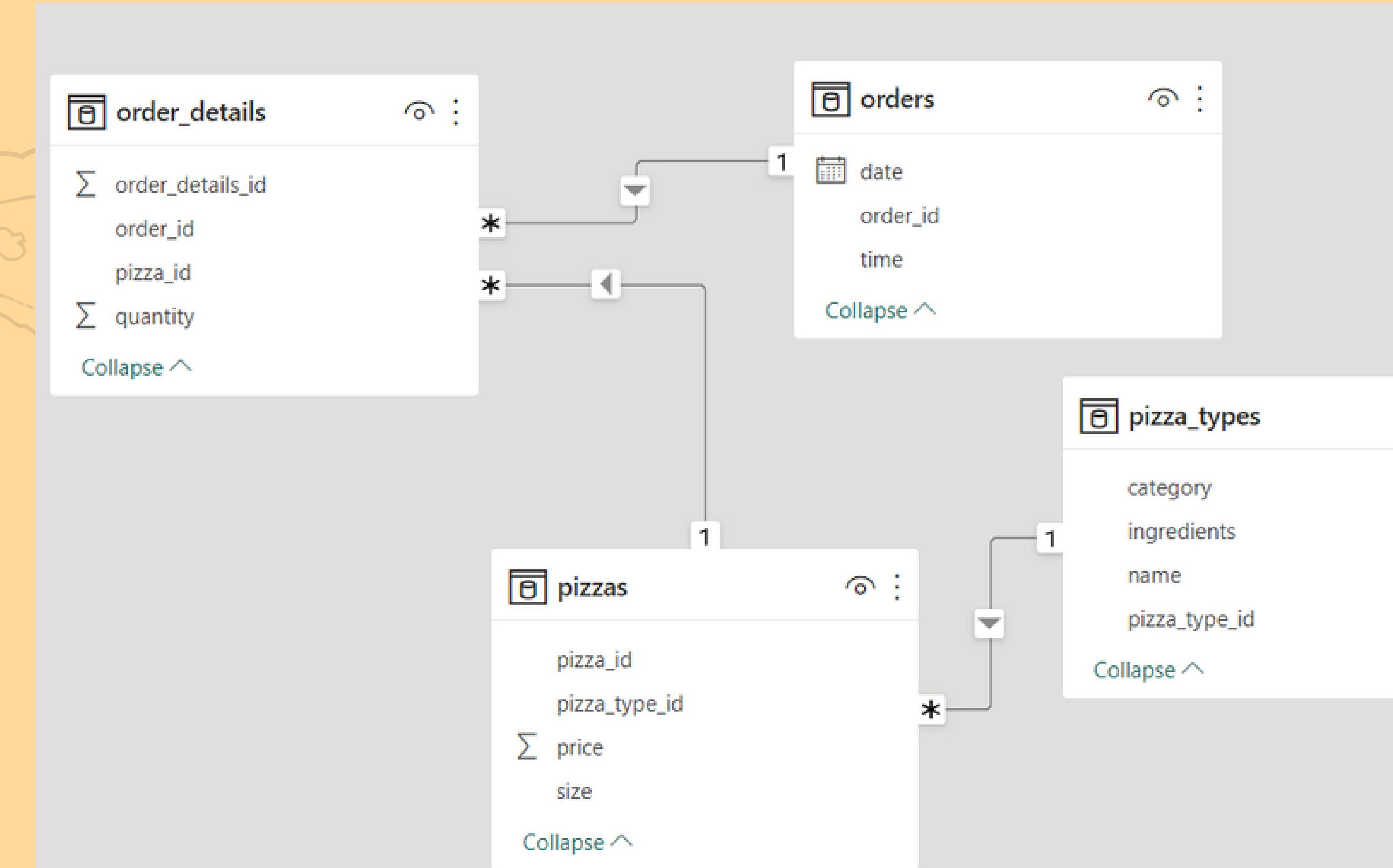


Project Title: Pizza Sales Analysis with SQL

Project Overview:

In this project, we will conduct a comprehensive analysis of pizza sales using SQL queries. By exploring a dataset containing information on pizza orders, we aim to extract valuable insights into customer preferences, sales trends, and revenue generation. Through a series of SQL queries, we will address key questions and uncover patterns within the data, enabling us to make informed decisions and optimize our pizzeria's operations.

Data Model



Retrive total numbers of order placed

```
SELECT  
    COUNT(order_id) AS total_orders  
FROM  
    orders;
```

total_orders
21350

Calculate the total Revenue generated by pizza sales

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

	Revenue
▶	817860.05

Identify the highest priced pizza

```
SELECT  
    (pizza_types.name) AS name, SUM(pizzas.price) AS price  
FROM  
    pizzas  
        JOIN  
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id  
GROUP BY name  
ORDER BY price DESC LIMIT 1;
```

	name	price
▶	The Greek Pizza	109.95

Identity the most common pizza size details

```
SELECT  
    (pizzas.size) AS pizza_size,  
    COUNT(details.order_details_id) AS order_count  
FROM  
    pizzas  
        JOIN  
    details ON pizzas.pizza_id = details.pizza_id  
GROUP BY pizza_size  
ORDER BY order_count DESC  
LIMIT 1;
```

	pizza_size	order_count
▶	L	18526

List of top 5 most ordered pizza types along with their quantity

```
SELECT
    (pizza_types.name) AS pizza_names,
    SUM(details.quantity) AS total_quantity
FROM
    pizzas
        JOIN
    pizza_types ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    details ON pizzas.pizza_id = details.pizza_id
GROUP BY pizza_names
ORDER BY total_quantity DESC
LIMIT 5;
```

	pizza_names	total_quantity
▶	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

Find the total quantity of each pizza category ordered

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

	pizza_category	total_quantity
▶	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

Determine distribution of orders by hour of the day

SELECT

HOUR(order_time) AS hours, COUNT(order_id) AS order_count

FROM

orders

GROUP BY hours;

hours	order_count
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642

hours	order_count
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

Category wise distribution

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

	category	COUNT(name)
▶	Chicken	6
	Classic	8
	Supreme	9
	Veggie	9

Group the order by date and calculate the average number of pizzas ordered per day

```
WITH order_quantity AS (
    SELECT orders.order_date, SUM(details.quantity) AS total_quantity
    FROM orders
    JOIN details ON orders.order_id = details.order_id
    GROUP BY orders.order_date
)
SELECT AVG(total_quantity) AS average_pizzas_per_day FROM order_quantity;
```

	average_pizzas_per_day
▶	138.4749

Top 3 most ordered pizza type based on revenue

```
SELECT
    pizza_types.name AS pizza_names,
    SUM(details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
        JOIN
    details ON details.pizza_id = pizzas.pizza_id
GROUP BY pizza_names
ORDER BY revenue DESC
LIMIT 3;
```

	pizza_names	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5