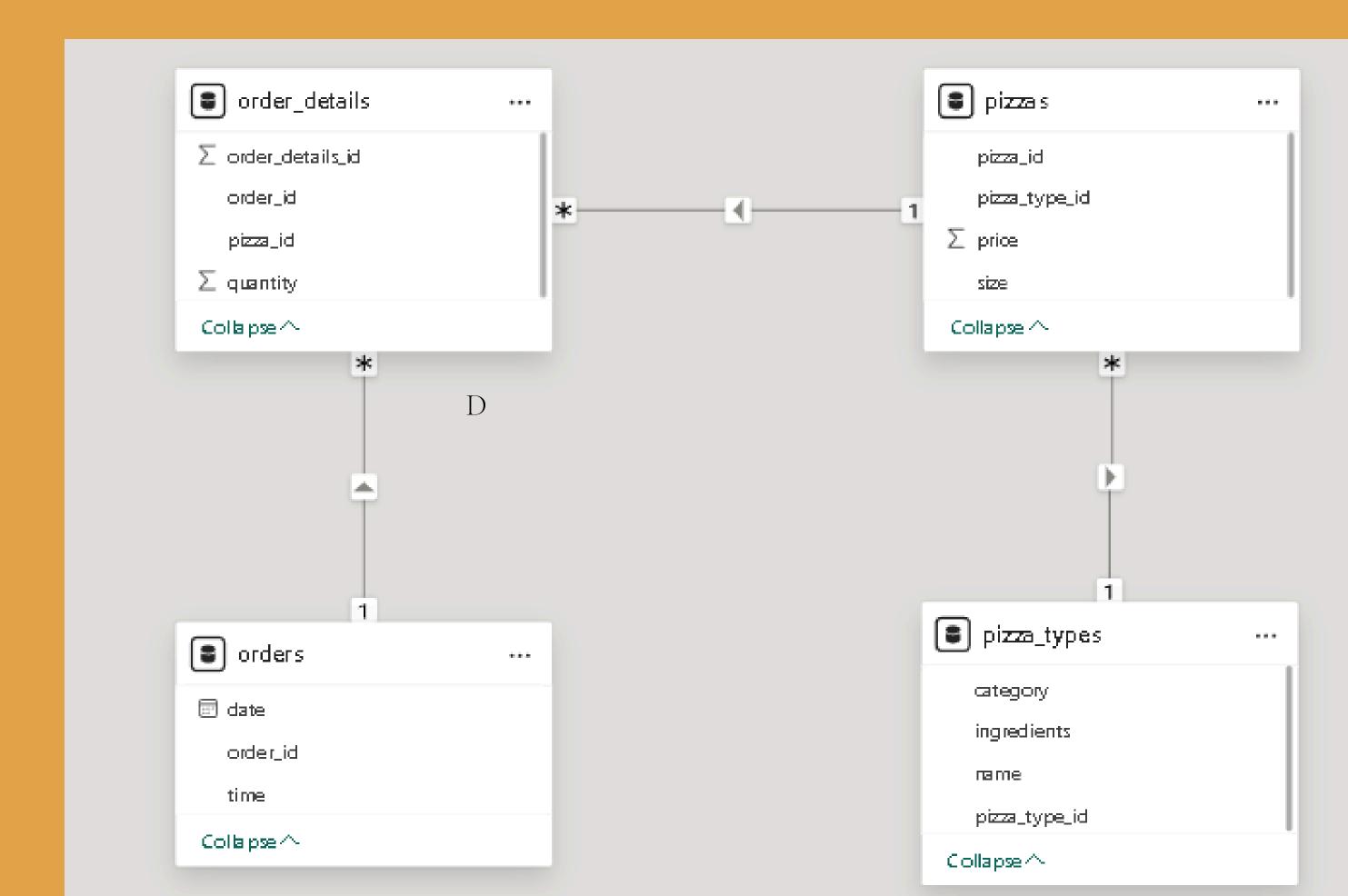


### Pizza Project

#### Hello! My name is Shubhangi Dhale

In this project I have utilized SQL queries to solves questions related to the pizza's sales!

#### Database Schema



#### Basic Sql Queries

#### 1.Retrieve the total number of orders placed.

```
select count(order_id) Total_orders from orders;
```



# 2.Calculate the total revenue generated from pizza sales.

```
SELECT

ROUND(SUM(price * quantity), 2) AS Total_revenue

FROM

pizzas p

JOIN

order_details o ON p.pizza_id = o.pizza_id;
```



#### 3. Identify the highest-priced pizza.

```
SELECT
    t.name, p.price
FROM
    pizzas p
        JOIN
    order_details o ON p.pizza_id = o.pizza_id
        JOIN
    pizza_types t ON p.pizza_type_id = t.pizza_type_id
ORDER BY 2 DESC
LIMIT 1;
```

	name	price
•	The Greek Pizza	35.95

#### 4. Identify the most common pizza size ordered.

```
SELECT
    size, SUM(quantity) A5 Total_quantityOfPizza
FROM
    pizzas p
        JOIN
    order_details o ON p.pizza_id = o.pizza_id
GROUP BY size
ORDER BY 2 DESC;
```

	size	Total_quantityOfPizza
•	L	18956
	М	15635
	S	14403
	XL	552
	XXL	28

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

```
SELECT
   t.name, SUM(o.quantity) Total_q
FROM
    pizza_types t
        JOIN
    pizzas p ON t.pizza_type_id = p.pizza_type_id
        JOIN
    order_details o ON o.pizza_id = p.pizza_id
GROUP BY name
ORDER BY Total_q DESC
LIMIT 5;
```

	name	Total_q
•	The Classic Deluxe Pizza	2453
	The Barbecue Chicken Pizza	2432
	The Hawaiian Pizza	2422
	The Pepperoni Pizza	2418
	The Thai Chicken Pizza	2371

#### Intermediate

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

```
SELECT
    t.category, SUM(o.quantity) Total_q
FROM
    pizza_types t
        JOIN
    pizzas p ON t.pizza_type_id = p.pizza_type_id
        JOIN
    order_details o ON o.pizza_id = p.pizza_id
GROUP BY t.category
ORDER BY Total_q DESC;
```

	category	Total_q
•	Classic	14888
	Supreme	11987
	Veggie	11649
	Chicken	11050

# 2. Determine the distribution of orders by hour of the day.

```
SELECT

HOUR(time) AS Hour_t, COUNT(order_id) count_of_id

FROM

orders

GROUP BY HOUR(time)

ORDER BY 1;
```

	Hour_t	count_of_id
•	9	1
	10	8
	11	1231
	12	2520
	13	2455
	14	1472
	15	1468
	16	1920
	17	2336
	18	2399
	19	2009
	20	1642
	21	1198
	22	663
	23	28

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

```
select category, count(pizza_type_id) as TotalPizzaName
from pizza_types
group by category
order by 2 desc;
```

	category	TotalPizzaName
<b>•</b>	Supreme	9
	Veggie	9
	Classic	8
	Chicken	6

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

```
SELECT
    ROUND(AVG(Totalorder)) as Avg_Pizza_order
FROM
    (SELECT
        o.order_date, SUM(d.quantity) Totalorder
    FROM
        orders o
    JOIN order_details d ON o.order_id = d.order_id
    GROUP BY o.order_date) t;
```



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

```
SELECT
    p.pizza_type_id, SUM(a.price * d.quantity) TotalPrice
FROM
    pizza_types p
        JOIN
    pizzas a ON p.pizza_type_id = a.pizza_type_id
        JOIN
    order_details d ON a.pizza_id = d.pizza_id
GROUP BY p.pizza_type_id
ORDER BY TotalPrice DESC
LIMIT 3;
```

	pizza_type_id	TotalPrice
•	thai_ckn	43434.25
	bbq_ckn	42768
	cali_ckn	41409.5

#### Advanced

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

```
SELECT
    p.category,
    ROUND(SUM(a.price * o.quantity) / (SELECT
                    ROUND(SUM(p.price * o.quantity), 2) AS Total_revenue
                FROM
                    pizzas p
                        JOIN
                    order_details o ON p.pizza_id = o.pizza_id) * 100,
            2) A5 Revenue
FROM
    pizza_types p
        JOIN
    pizzas a ON p.pizza_type_id = a.pizza_type_id
        JOIN
    order_details o ON o.pizza_id = a.pizza_id
GROUP BY p.category;
```

	category	Revenue
•	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

#### 2.Analyze the cumulative revenue generated over time.

```
select order_date, sum(Total) over (order by order_date) as cumlative_sum from

(select o.order_date, round(sum(p.price*d.quantity)) as Total
from orders o join order_details d
on o.order_id=d.order_id
join pizzas p
on d.pizza_id=p.pizza_id
group by o.order_date) m;
```

	order_date	cumlative_sum
•	2015-01-01	2714
	2015-01-02	5446
	2015-01-03	8108
	2015-01-04	9863
	2015-01-05	11929
	2015-01-06	14358
	2015-01-07	16560
	2015-01-08	19398
	2015-01-09	21525
	2015-01-10	23989
	2015-01-11	25861
	2015-01-12	27780

	category	Revenue
•	Classic	26.91
	Veggie	23.68
	Supreme	25.46
	Chicken	23.96

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

	category	pizza_type_id	revenue
•	Chicken	thai_ckn	43434.25
	Chicken	bbq_ckn	42768
	Chicken	cali_ckn	41409.5
	Classic	classic_dlx	38180.5
	Classic	hawaiian	hawaiian
	Classic	pepperoni	30161.75
	Supreme	spicy_ital	34831.25
	Supreme	ital_supr	33476.75
	Supreme	sicilian	30940.5
	Veggie	four_cheese	32265.70000000065
	Veggie	mexicana	26780.75
	Veggie	five_cheese	26066.5