

# PIZZERIA



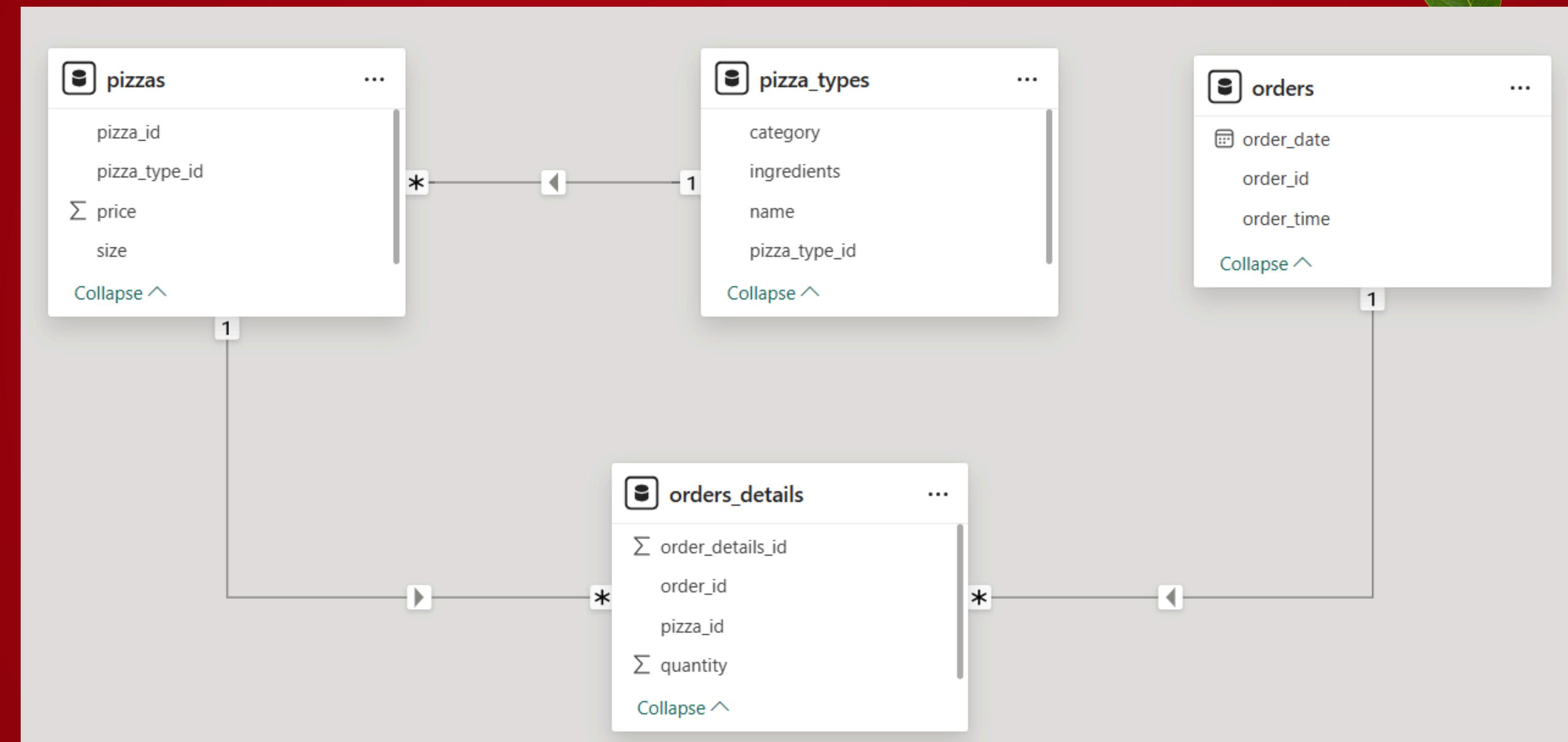
# WELCOME TO PIZZERIA

Hello!

I am Km Kalpana. In this Project, I have utilised SQL Queries to solve questions that were related to pizzeria sales.



# RELATIONSHIPS BETWEEN TABLES



RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.

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

| Result Grid |             |
|-------------|-------------|
|             | total_order |
| ▶           | 21350       |

# CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.

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

| Result Grid |               |
|-------------|---------------|
|             | total_revenue |
| ▶           | 684845.7      |

# 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 price DESC
LIMIT 1;
```

Result Grid | Filter Row

|   | name            | price |
|---|-----------------|-------|
| ▶ | The Greek Pizza | 35.95 |

# IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

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

Result Grid | Filter

|   | size | order_count |
|---|------|-------------|
| ▶ | L    | 15509       |

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

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

| Result Grid |                            |                |
|-------------|----------------------------|----------------|
|             | name                       | quantity_order |
| ▶           | The Pepperoni Pizza        | 2049           |
|             | The Classic Deluxe Pizza   | 2046           |
|             | The Barbecue Chicken Pizza | 2041           |
|             | The Hawaiian Pizza         | 1990           |
|             | The Thai Chicken Pizza     | 1966           |

# JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.

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

| Result Grid |          |                |
|-------------|----------|----------------|
|             | category | total_quantity |
| ▶           | Classic  | 12487          |
|             | Supreme  | 10031          |
|             | Veggie   | 9772           |
|             | Chicken  | 9213           |

# DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.

**SELECT**

**HOUR(order\_time) AS hour, COUNT(order\_id) AS orders\_count**

**FROM**

**orders**

**GROUP BY HOUR(order\_time);**

| Result Grid |      |              |
|-------------|------|--------------|
|             | hour | orders_count |
|             | 12   | 2520         |
|             | 13   | 2455         |
|             | 14   | 1472         |
|             | 15   | 1468         |
|             | 16   | 1920         |
|             | 17   | 2336         |
|             | 18   | 2399         |
|             | 19   | 2009         |
|             | 20   | 1642         |
|             | 21   | 1198         |
|             | 22   | 663          |
|             | 23   | 28           |

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

```
SELECT  
    pizza_types.category,  
    COUNT(orders_details.order_id) AS pizza  
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.category;
```

|   | category | pizza |
|---|----------|-------|
| ▶ | Classic  | 12237 |
|   | Veggie   | 9600  |
|   | Supreme  | 9849  |
|   | Chicken  | 9019  |

GROUP THE ORDERS BY DATE AND CALCULATE THE AVERAGE NUMBER OF PIZZAS ORDERED PER DAY.

```
SELECT
    ROUND(AVG(pizza_orders), 0) as pizza_order
FROM
    (SELECT
        orders.order_date,
        SUM(orders_details.quantity) AS pizza_orders
    FROM
        orders_details
    JOIN orders ON orders_details.order_id = orders.order_id
    GROUP BY orders.order_date) AS order_quantity;
```

| Result Grid |             |
|-------------|-------------|
|             | pizza_order |
| ▶           | 138         |

# DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.

```
SELECT
    pizza_types.name,
    SUM(orders_details.quantity * pizzas.price) AS revenue
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 revenue DESC
LIMIT 3;
```

Result Grid | Filter Rows:

|   | name                         | revenue  |
|---|------------------------------|----------|
| ▶ | The Thai Chicken Pizza       | 35970.5  |
|   | The Barbecue Chicken Pizza   | 35866.75 |
|   | The California Chicken Pizza | 34212.5  |

# CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.

SELECT

```
    pizza_types.category,  
    ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT  
        SUM(orders_details.quantity * pizzas.price)  
    FROM  
        orders_details  
        JOIN  
        pizzas ON orders_details.pizza_id = pizzas.pizza_id) * 100,  
    2) AS revenue  
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.category  
ORDER BY revenue DESC;
```

|   | category | revenue |
|---|----------|---------|
| ▶ | Classic  | 26.97   |
|   | Supreme  | 25.46   |
|   | Chicken  | 23.84   |
|   | Veggie   | 23.73   |

# ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

```
select order_date,  
       sum(revenue) over (order by order_date) as cum_revenue  
  from  
(select orders.order_date, sum(orders_details.quantity*pizzas.price) as revenue  
   from orders_details join pizzas  
   on orders_details.pizza_id=pizzas.pizza_id  
  join orders  
  on orders_details.order_id=orders.order_id  
 group by orders.order_date) as sales;
```

|   | order_date | cum_revenue        |
|---|------------|--------------------|
| ▶ | 2015-01-01 | 2713.8500000000004 |
|   | 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 | 23990.35000000002  |
|   | 2015-01-11 | 25862.65           |
|   | 2015-01-12 | 27781.7            |

# 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 cat_based_revenue
from
(select pizza_types.category, pizza_types.name,
sum(orders_details.quantity*pizzas.price) as revenue
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.category,pizza_types.name) as a) as b
where cat_based_revenue <=3;
```

|   | name                         | revenue           |
|---|------------------------------|-------------------|
| ▶ | The Thai Chicken Pizza       | 35970.5           |
|   | The Barbecue Chicken Pizza   | 35866.75          |
|   | The California Chicken Pizza | 34212.5           |
|   | The Classic Deluxe Pizza     | 31829             |
|   | The Hawaiian Pizza           | 26554.5           |
|   | The Pepperoni Pizza          | 25565.75          |
|   | The Spicy Italian Pizza      | 29193.5           |
|   | The Italian Supreme Pizza    | 27891.75          |
|   | The Sicilian Pizza           | 25557.75          |
|   | The Four Cheese Pizza        | 27062.95000000049 |
|   | The Five Cheese Pizza        | 22496             |
|   | The Mexicana Pizza           | 21938.25          |

# THANK YOU!

