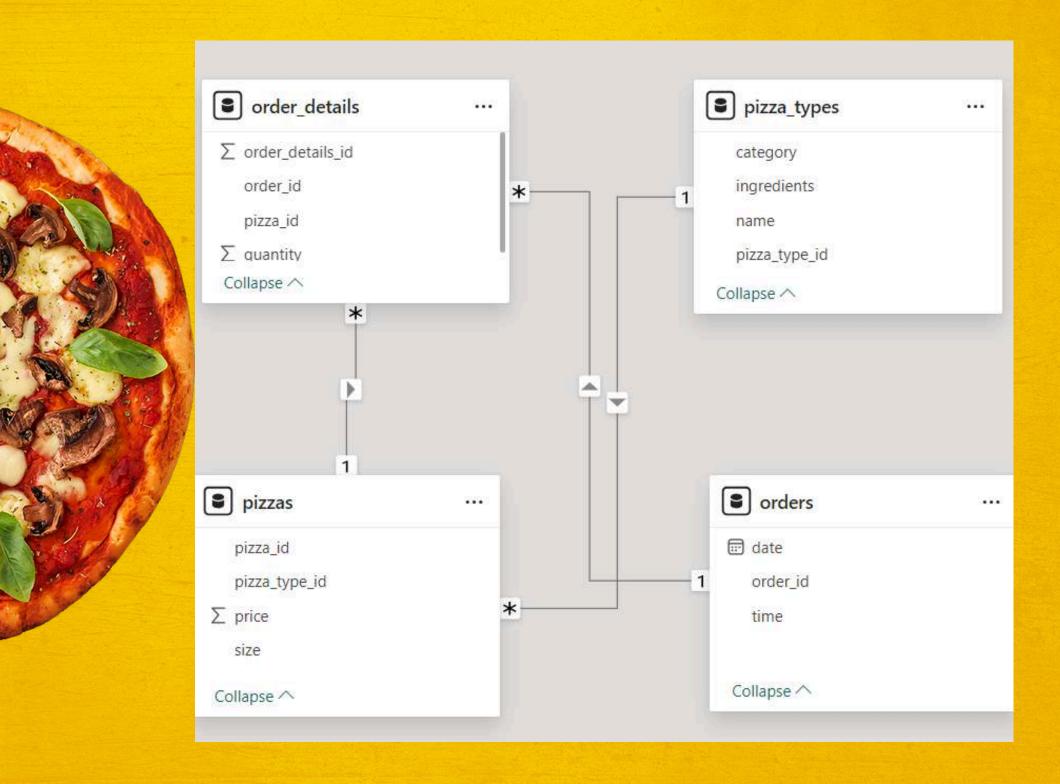
Pizza Time



This SQL project explored pizza sales data by writing queries to answer various business questions. The queries extracted insights such as top-selling pizzas, cumulative revenue over time, and popular pizza categories, utilizing techniques like joins, subqueries, and window functions to analyze the data. The project highlights my ability to work with SQL for data analysis and reporting.

Schema



Queries

- 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.
- 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.

Retrieve the total number of orders placed.



Calculate the total revenue generated from pizza sales.

```
SELECT
   ROUND(SUM(orders_details.quantity * pizzas.price),
           2) AS total_sales
FROM
   orders_details
        JOIN
   pizzas USING (pizza_id);
                                    Result Grid
                                        total_sales
                                       817860.05
```

Identify the highest-priced pizza.



Identify the most common pizza size ordered.

```
SELECT

pizzas.size,

COUNT(orders_details.order_details_id) AS Most_ordered_size

FROM

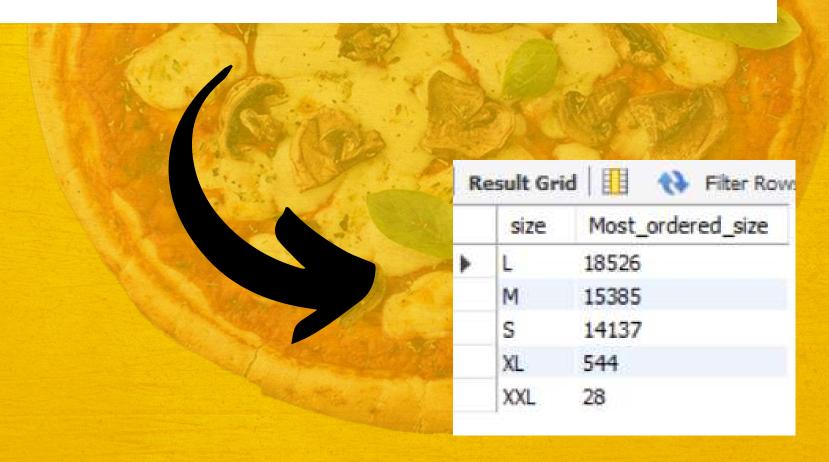
pizzas

JOIN

orders_details USING (pizza_id)

GROUP BY pizzas.size

ORDER BY Most_ordered_size DESC;
```



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

```
SELECT

pizza_types.name,

SUM(orders_details.quantity) AS Total_Quantity

FROM

pizza_types

JOIN

pizzas USING (pizza_type_id)

JOIN

orders_details USING (pizza_id)

GROUP BY pizza_types.name

ORDER BY total_Quantity DESC

LIMIT 5;
```



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

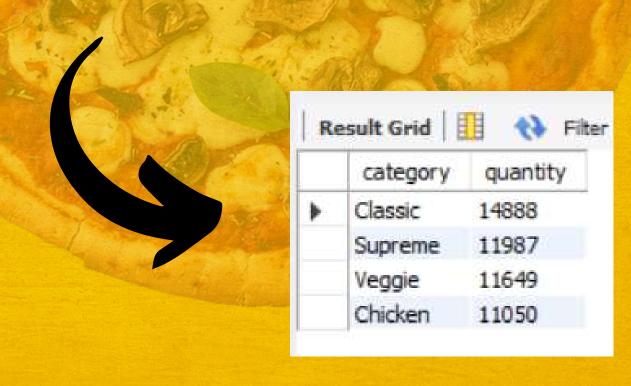
pizzas USING (pizza_type_id)

JOIN

orders_details USING (pizza_id)

GROUP BY pizza_types.category

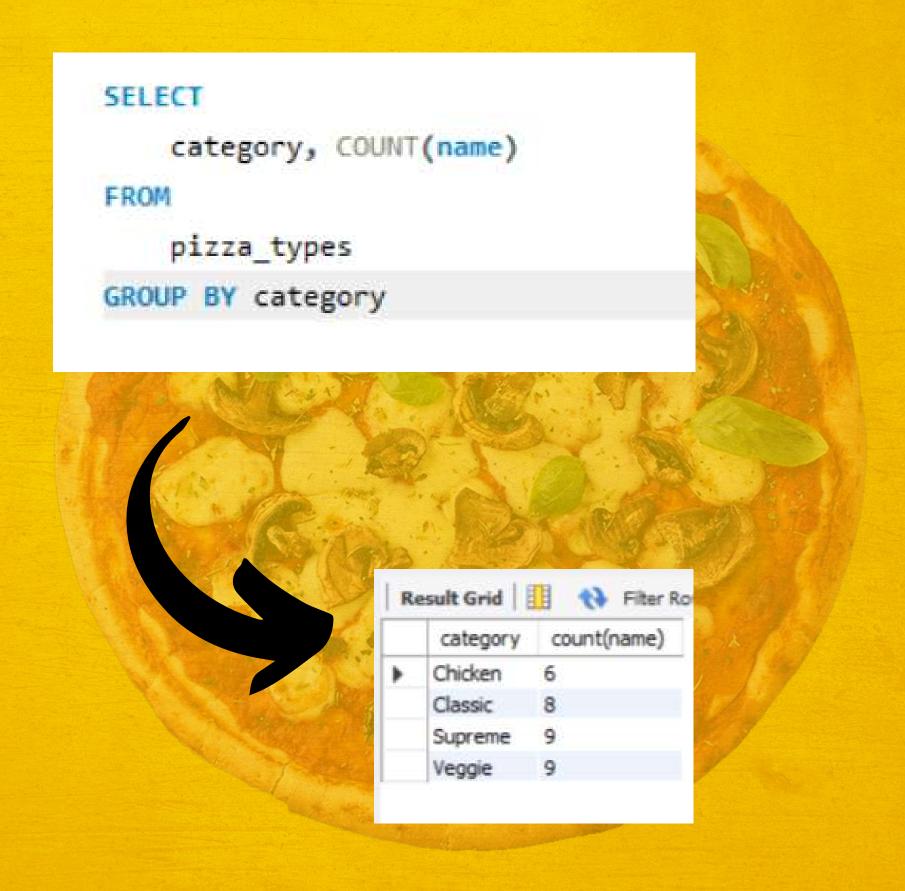
ORDER BY quantity DESC;
```



Determine the distribution of orders by hour of the day.

```
SELECT
    HOUR(order_time) AS Hours, COUNT(order_id) AS Order_count
FROM
    orders
GROUP BY HOUR(order_time);
                                                 Result Grid | | N Filter
                                                           Order_count
                                                    Hours
                                                           1231
                                                    11
                                                    12
                                                           2520
                                                    13
                                                           2455
                                                           1472
                                                    14
                                                           1468
                                                    15
                                                           1920
                                                    16
                                                    17
                                                           2336
                                                           2399
                                                    18
                                                    19
                                                           2009
                                                           1642
                                                    20
                                                    21
                                                           1198
                                                    22
                                                           663
                                                    23
                                                           28
```

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



Group the orders by date and calculate the average number of daily pizzas.

```
SELECT
   ROUND(AVG(total_quantity), 0) as Average_pizza_per_day
FROM
    (SELECT
       orders.order_date,
            SUM(orders_details.quantity) AS total_quantity
    FROM
        orders
    JOIN orders details USING (order id)
   GROUP BY orders.order_date) AS order_quantity;
                                  Result Grid
                                      Average_pizza_per_day
                                      138
```

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

```
SELECT

pizza_types.name,

SUM(orders_details.quantity * pizzas.price) AS Total_revenue

FROM

pizza_types

JOIN

pizzas USING (pizza_type_id)

JOIN

orders_details USING (pizza_id)

GROUP BY pizza_types.name

ORDER BY Total_revenue DESC

LIMIT 5;
```

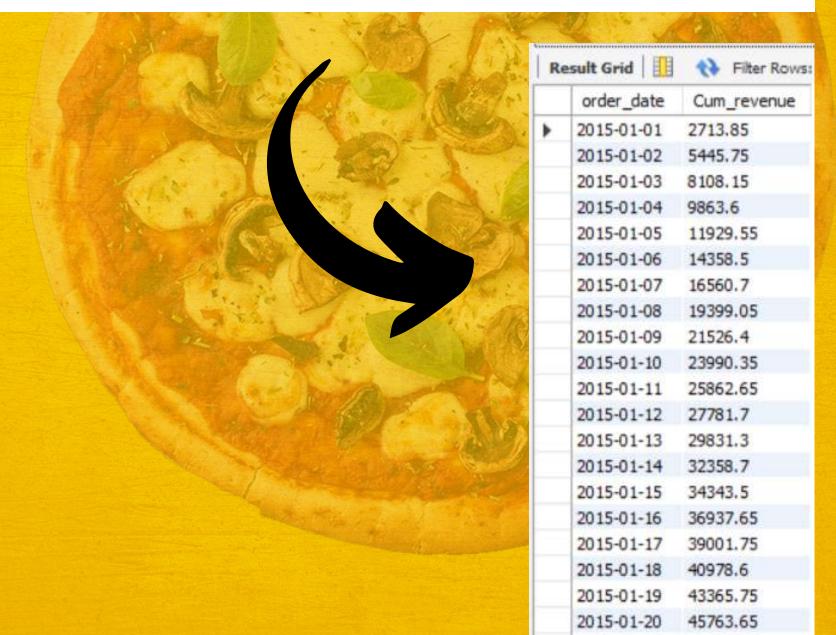


Calculate the percentage contribution of each pizza type to total revenue.

```
SELECT
    pizza_types.category,
    ROUND(SUM(orders details.quantity * pizzas.price) / (SELECT
                    ROUND(SUM(orders details.guantity * pizzas.price),
                                2) AS total sales
                FROM
                    orders details
                        JOIN
                    pizzas USING (pizza_id)) * 100,
            2) AS Revenue
FROM
    pizza_types
        JOIN
    pizzas USING (pizza_type_id)
        JOIN
    orders_details_USING (pizza_id)
GROUP BY pizza_types.category
ORDER BY revenue DESC;
```



Analyze the cumulative revenue generated over time.



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

```
SELECT category, name, revenue

FROM (

SELECT category, name, revenue,

RANK() OVER (PARTITION BY category ORDER BY revenue DESC) AS Reve

FROM (

SELECT pizza_types.category, pizza_types.name,

SUM(orders_details.quantity * pizzas.price) AS revenue

FROM pizza_types

JOIN pizzas USING (pizza_type_id)

JOIN orders_details USING (pizza_id)

GROUP BY pizza_types.category, pizza_types.name

) AS Data

) AS Data_2

WHERE Reve <= 3;
```

