## Project: Pizza Sales Analysis using SQL

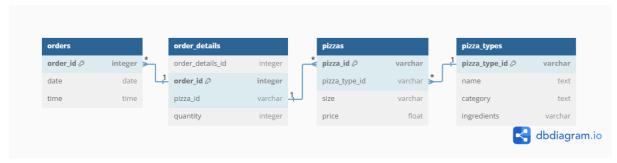
### Introduction

This project aims to investigate the sales data of a pizza restaurant using SQL. By analyzing various aspects of the sales data, such as sales volume, customer preferences, and product performance, we can gain valuable insights into the restaurant's business operations and identify areas for improvement.

## **Objectives**

- Analyze sales trends: Identify patterns in sales data over time, including peak sales periods and seasonal variations.
- Evaluate product popularity: Determine the most and least popular pizza items and their corresponding sales volumes.
- Examine customer behavior: Analyze customer purchasing habits, such as average order size, frequency of visits, and preferred payment methods.
- Identify revenue drivers: Identify the key factors contributing to the restaurant's revenue, including high-margin products and successful marketing campaigns.
- Provide recommendations: Offer data-driven recommendations to improve sales, enhance customer satisfaction, and optimize business operations.

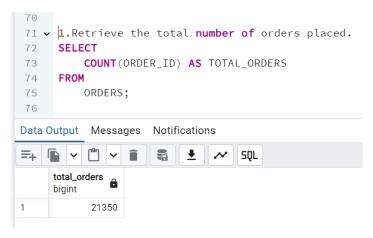
# Tables and Relationships



# Questions

#### Basic level:

Retrieve the total number of orders placed.



• Calculate the total revenue generated from pizza sales.

```
82 --Calculate the total revenue generated from pizza sales.
83 SELECT
         ROUND(SUM(ORDER_DETAILS.QUANTITY * PIZZAS.PRICE), 2) AS REVENUE
    FROM
86
         ORDER_DETAILS
         JOIN PIZZAS ON ORDER_DETAILS.PIZZA_ID = PIZZAS.PIZZA_ID;
87
88
89
90
91
Data Output Messages Notifications
                                  SQL
     revenue
     numeric
      817860.05
```

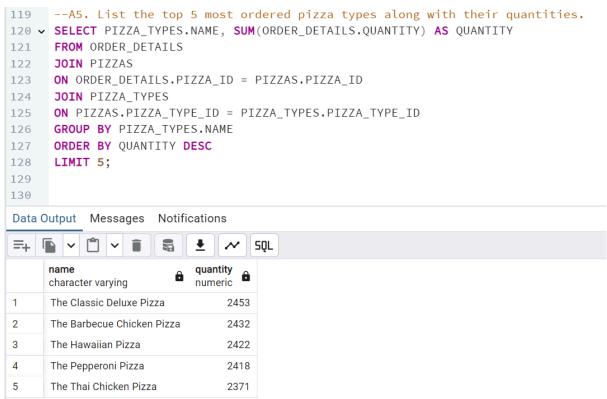
• Identify the highest-priced pizza.



• Identify the most common pizza size ordered.

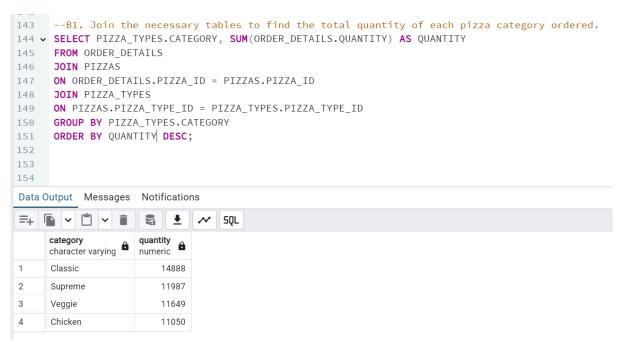


List the top 5 most ordered pizza types along with their quantities.

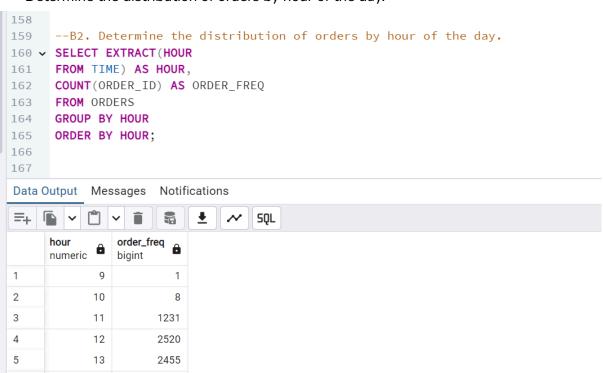


#### Intermediate:

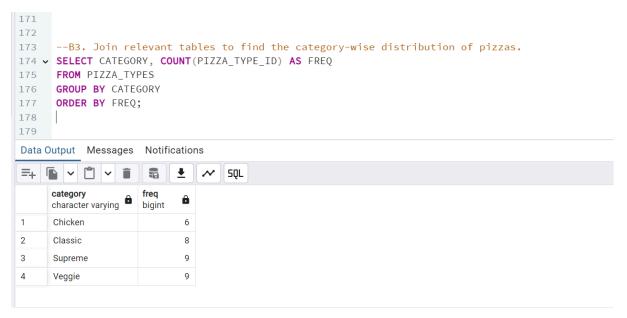
• Join the necessary tables to find the total quantity of each pizza category ordered.



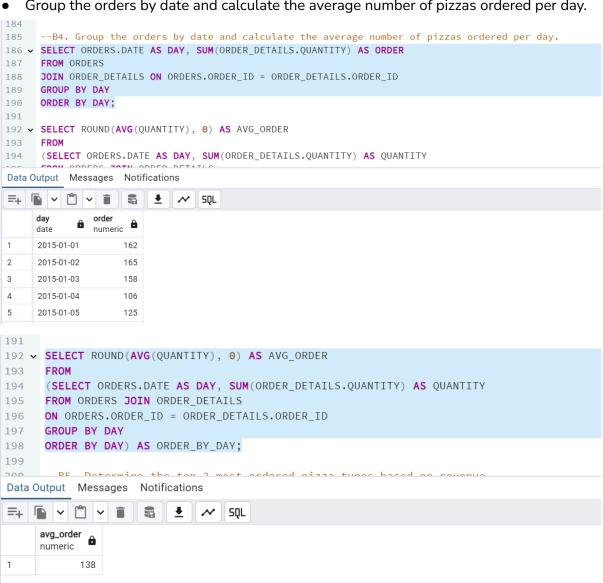
• Determine the distribution of orders by hour of the day.



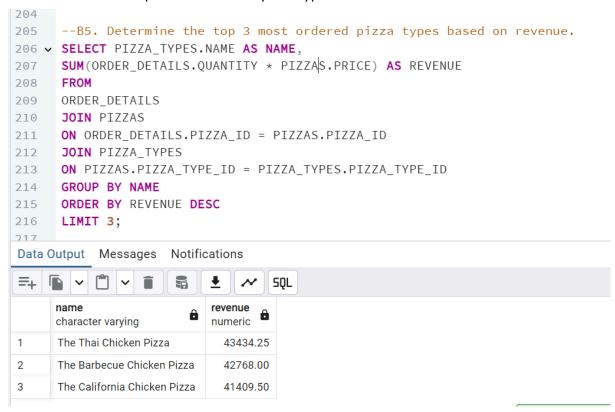
• Join relevant tables to find the category-wise distribution of pizzas.



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

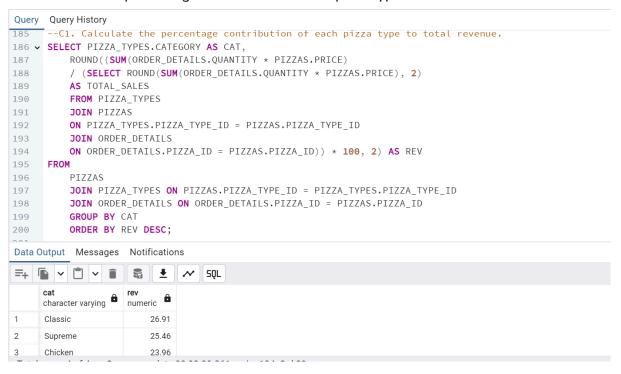


• Determine the top 3 most ordered pizza types based on revenue.

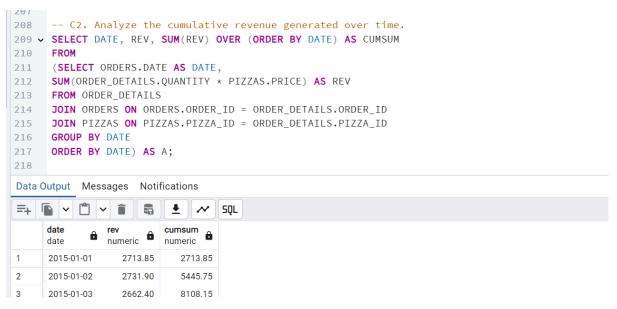


### Advanced:

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.

