

# PIZZA SALES --SQL PROJECT

#### Project Overview: Pizza Sales Data Analysis

#### **Objective:**

This project aims to analyze pizza sales data to extract key business insights, such as order patterns, revenue generation, popular pizza types, and customer ordering behavior. The analysis covers basic, intermediate, and advanced levels of complexity to help optimize business strategies.

### **Datasets Provided:**

- <u>orders.csv</u> Contains details of customer orders, including order ID, order date, and time.
- <u>order details.csv</u> Provides itemized order details, including pizza ID, quantity, and price.
- <u>pizzas.csv</u> Contains information about different pizza types, including size, category, and price.
- pizza types.csv Provides details about pizza names and categories.

# Questions:

#### **Basic:**

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.

#### **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.

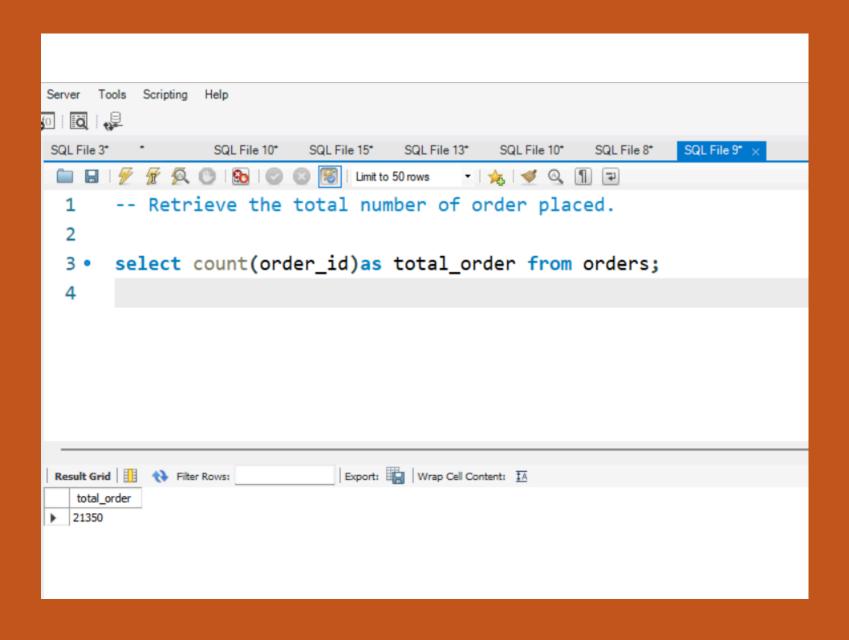
Determine the top 3 most ordered pizza types based on revenue.

#### **Advanced:**

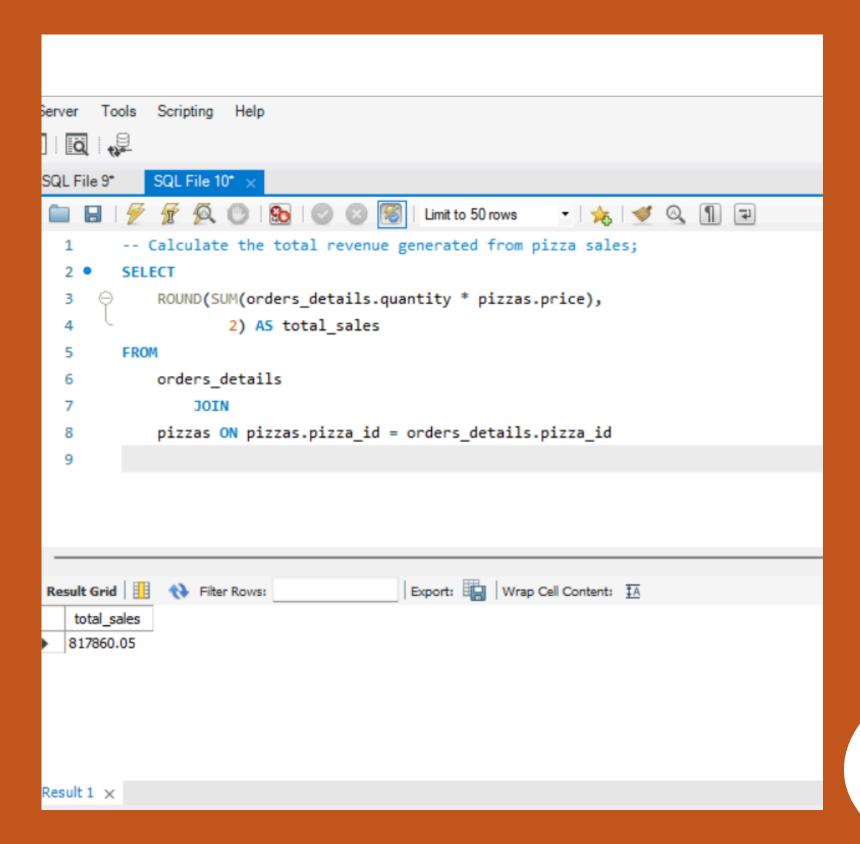
Calculate the percentage contribution of each pizza type to total revenue. Analyze the cumulative revenue generated over time.

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

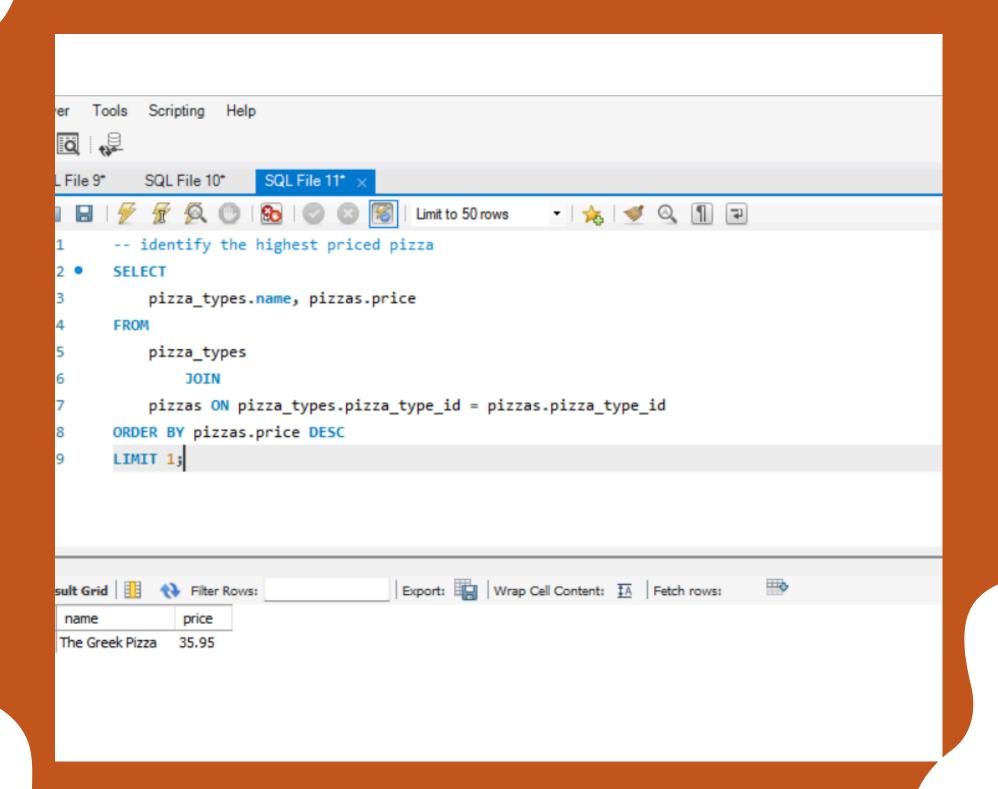
# Retrieve the total number of orders placed



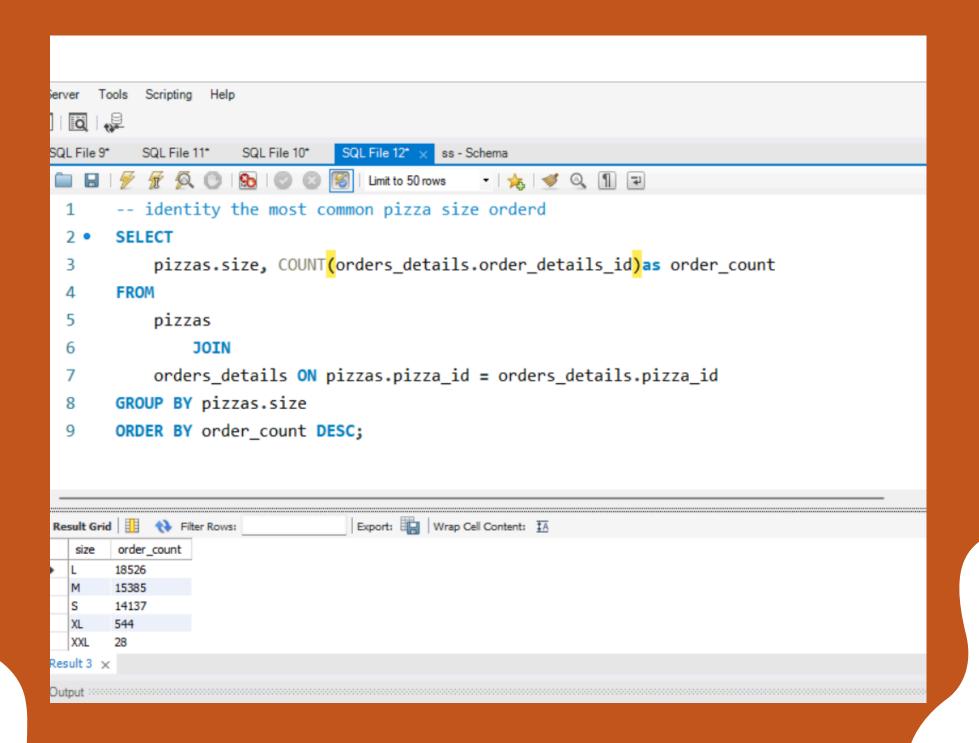
# Calculate the total revenue generated from pizza sales



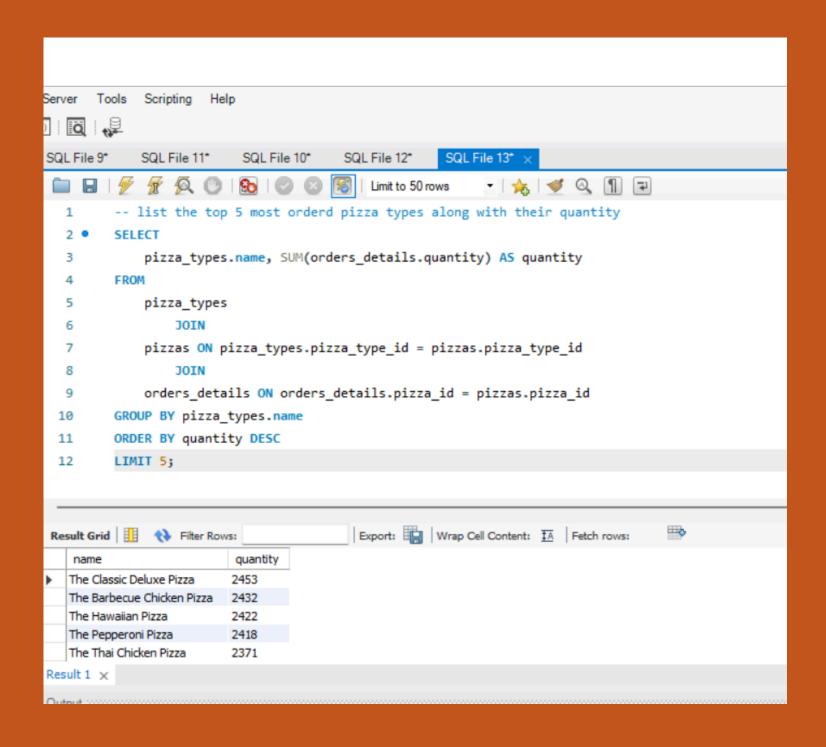
#### Identify the highest-priced pizza



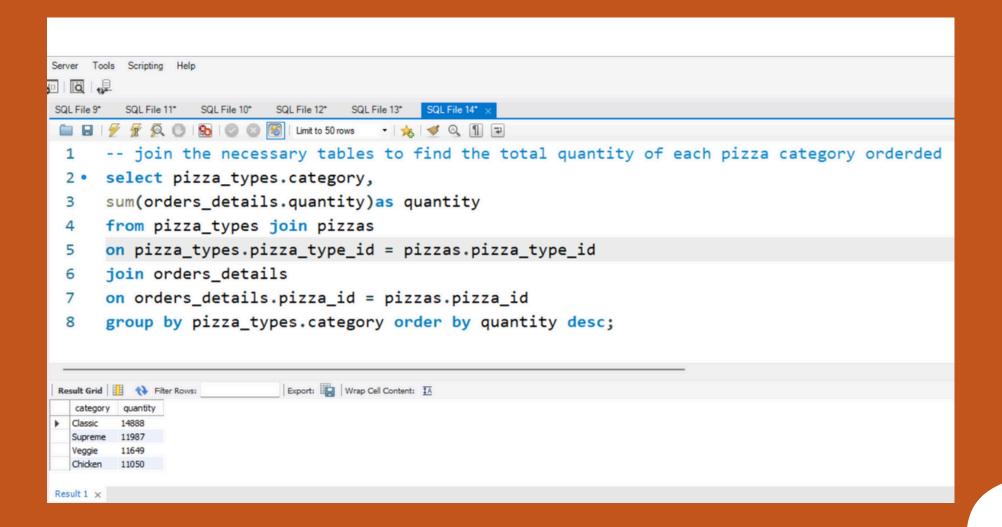
#### Identify the most common pizza size ordered.



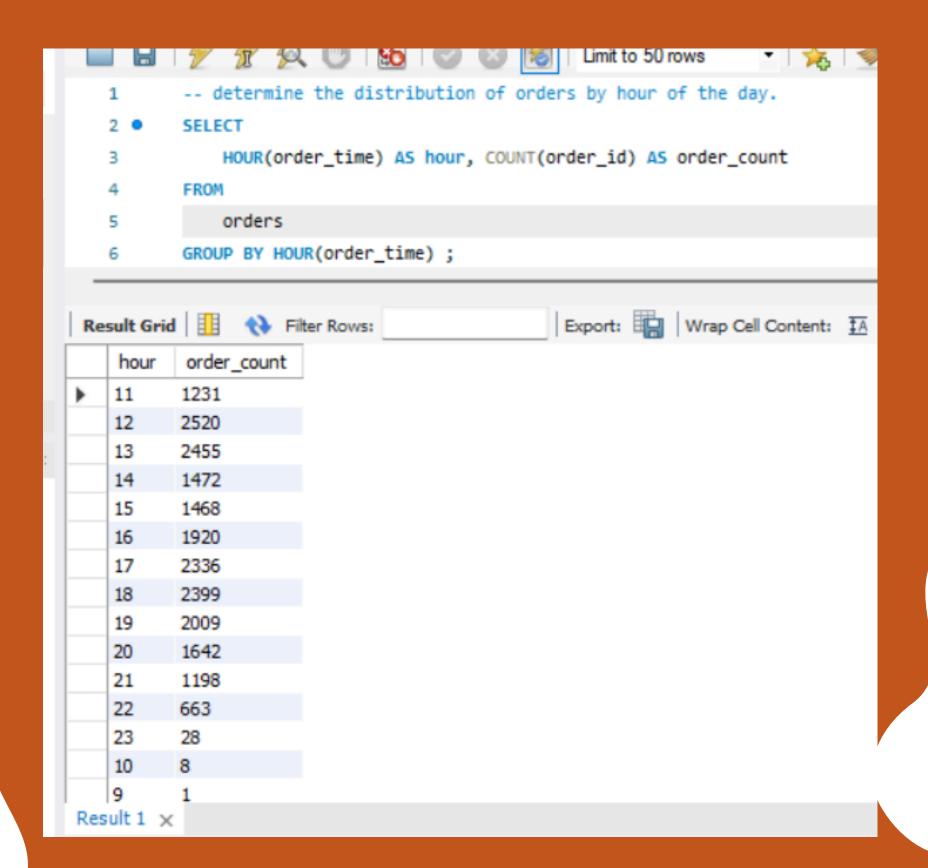
# <u>List the top 5 most ordered pizza types along</u> with their quantities.



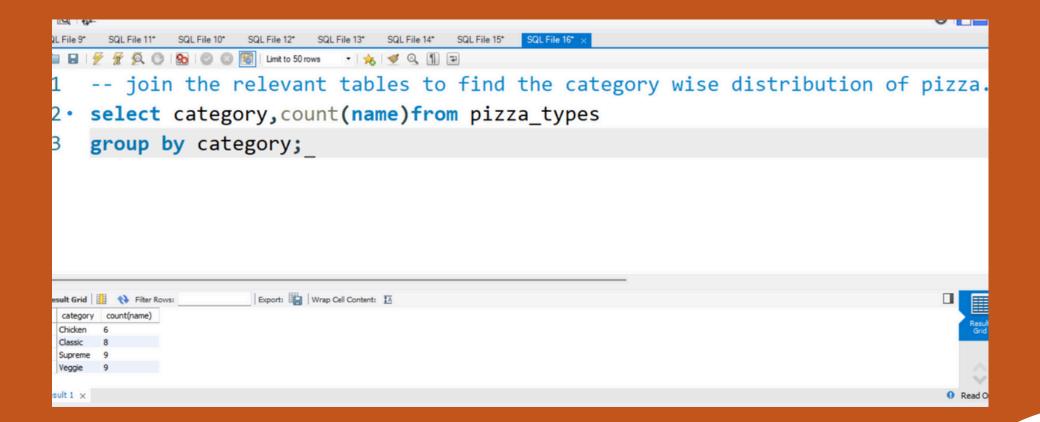
# Join the necessary tables to find the total quantity of each pizza category ordered.



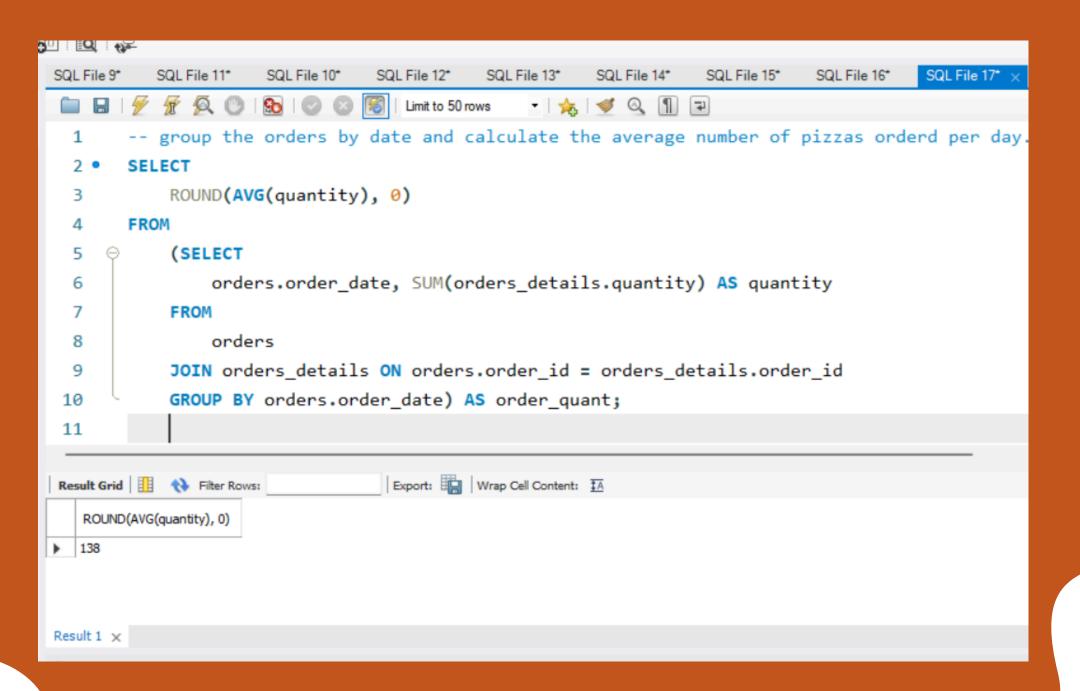
### <u>Determine the distribution of orders by hour</u> <u>of the day</u>



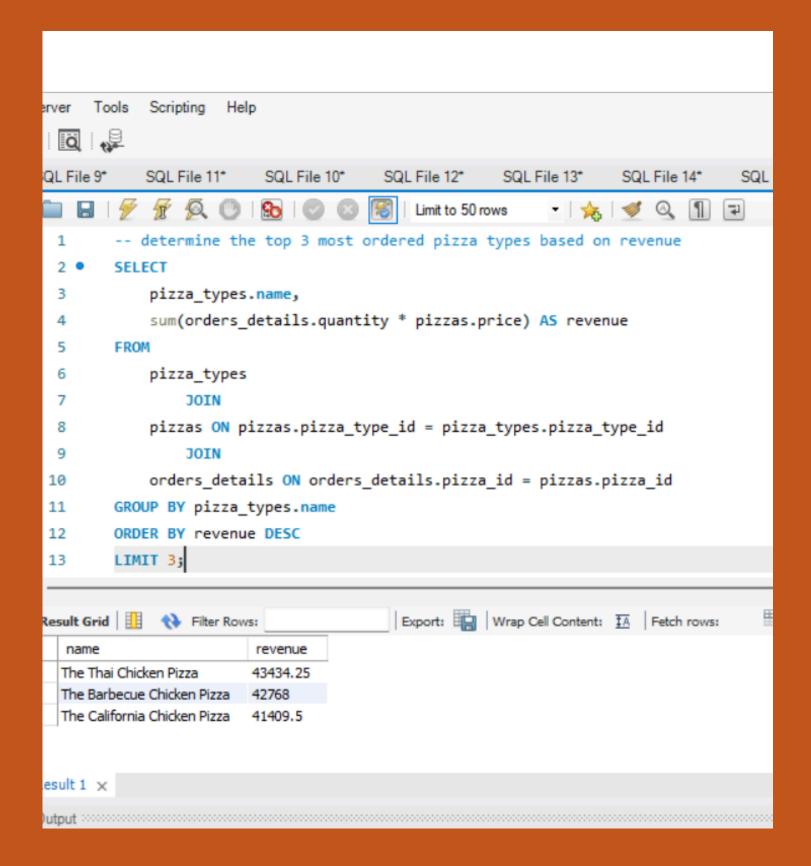
# Join relevant tables to find the category-wise distribution of pizzas



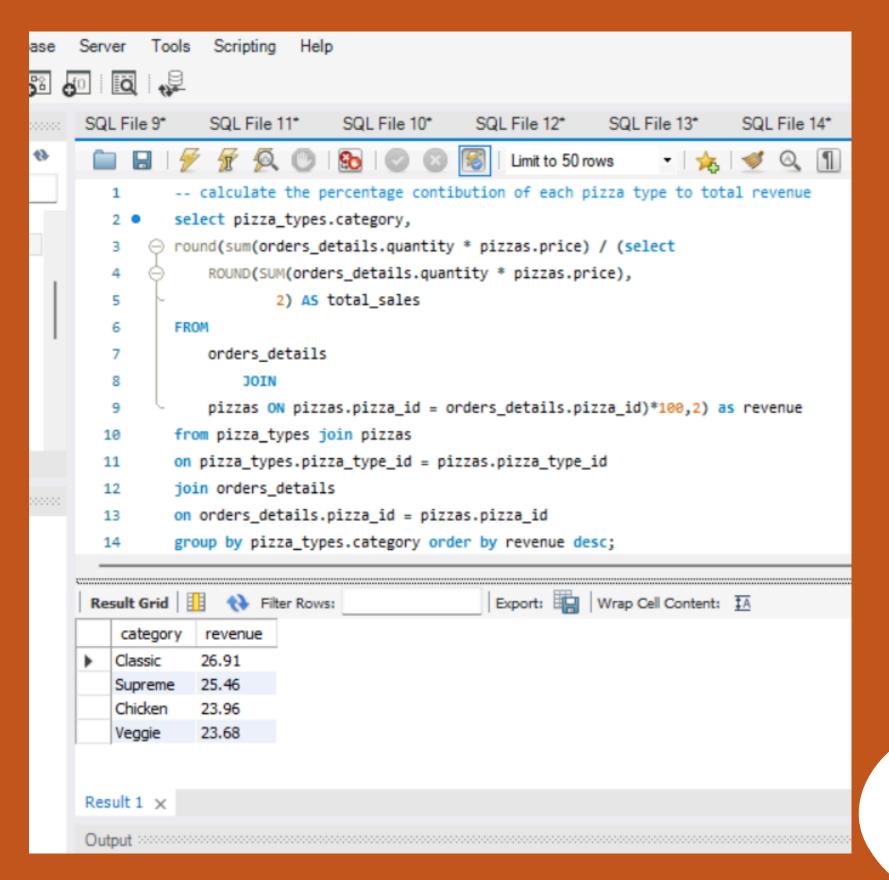
### <u>Group the orders by date and calculate the</u> <u>average number of pizzas ordered per day</u>



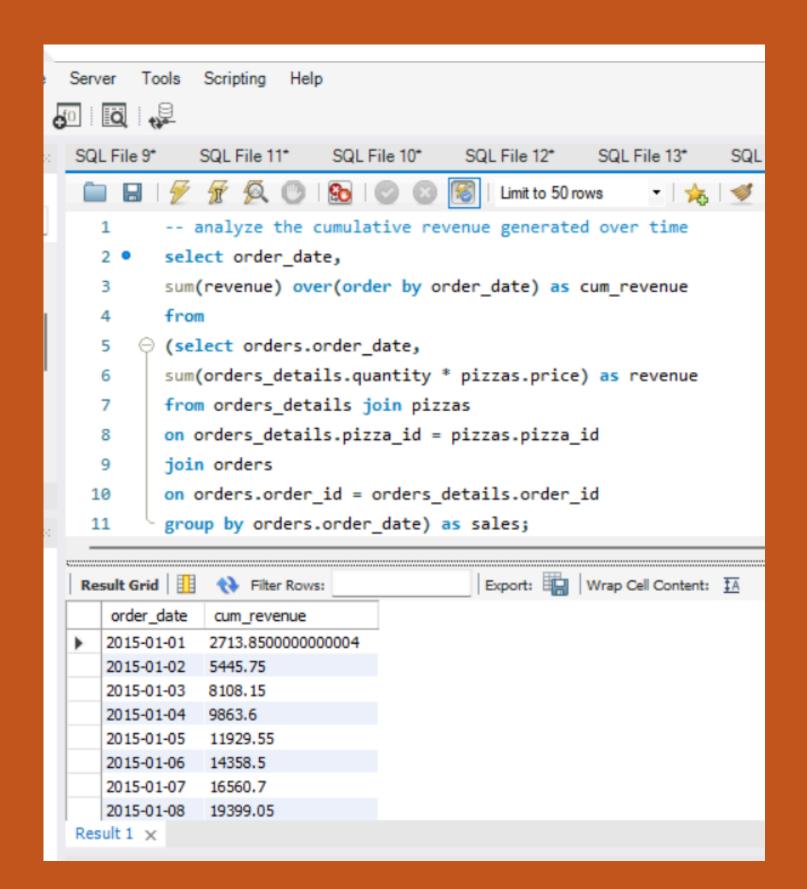
### <u>Determine the top 3 most ordered pizza</u> <u>types based on revenue</u>



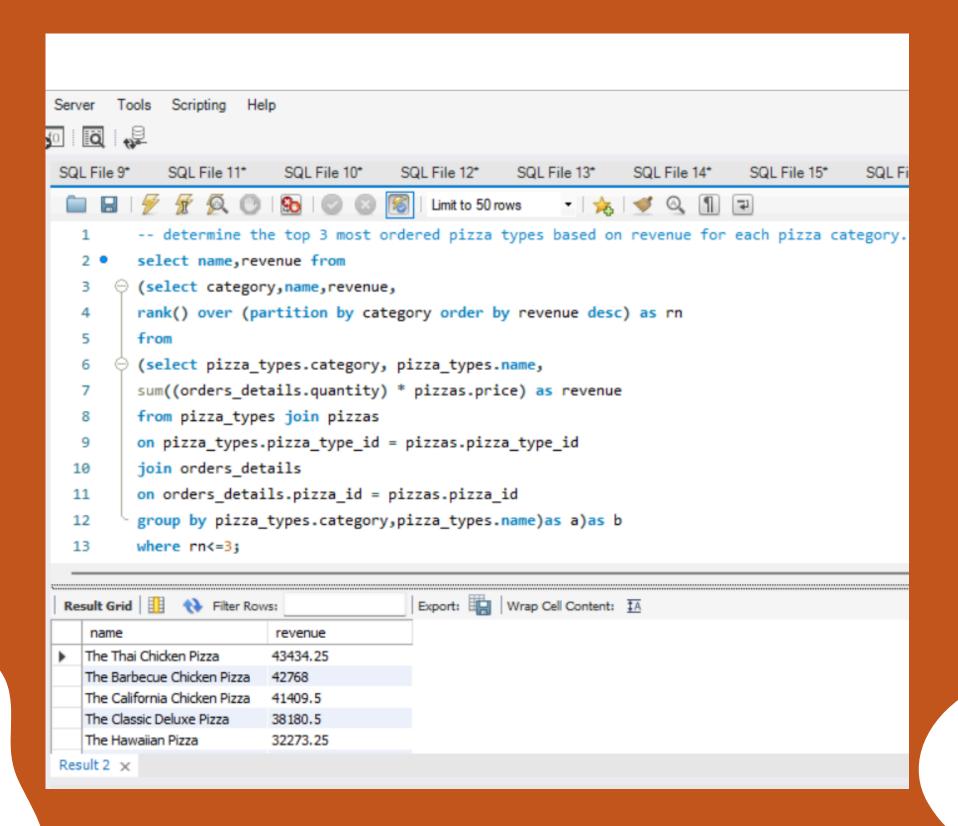
# <u>Calculate the percentage contribution of each pizza type to total revenue</u>



# Analyze the cumulative revenue generated over time



## <u>Determine the top 3 most ordered pizza</u> <u>types based on revenue for each pizza</u> <u>category</u>



# **Project Summary**

This project focuses on analyzing pizza sales data to extract key business insights. By examining order patterns, revenue generation, and customer preferences, the analysis helps optimize business strategies. The data includes order details, pizzas, and their categories, which are used to derive valuable metrics such as total revenue, the most ordered pizza types, and sales distribution by time and category.

The analysis starts with fundamental metrics like total orders, revenue, and top-selling pizzas. It then explores order distribution across different hours of the day, pizza categories, and daily trends. Advanced analysis includes revenue contribution by pizza type, cumulative revenue tracking, and categorywise top-performing pizzas.

The insights gained support decision-making for inventory management, marketing strategies, and pricing optimization. By understanding which pizzas drive the most revenue and when customers place the most orders, businesses can improve efficiency and profitability.