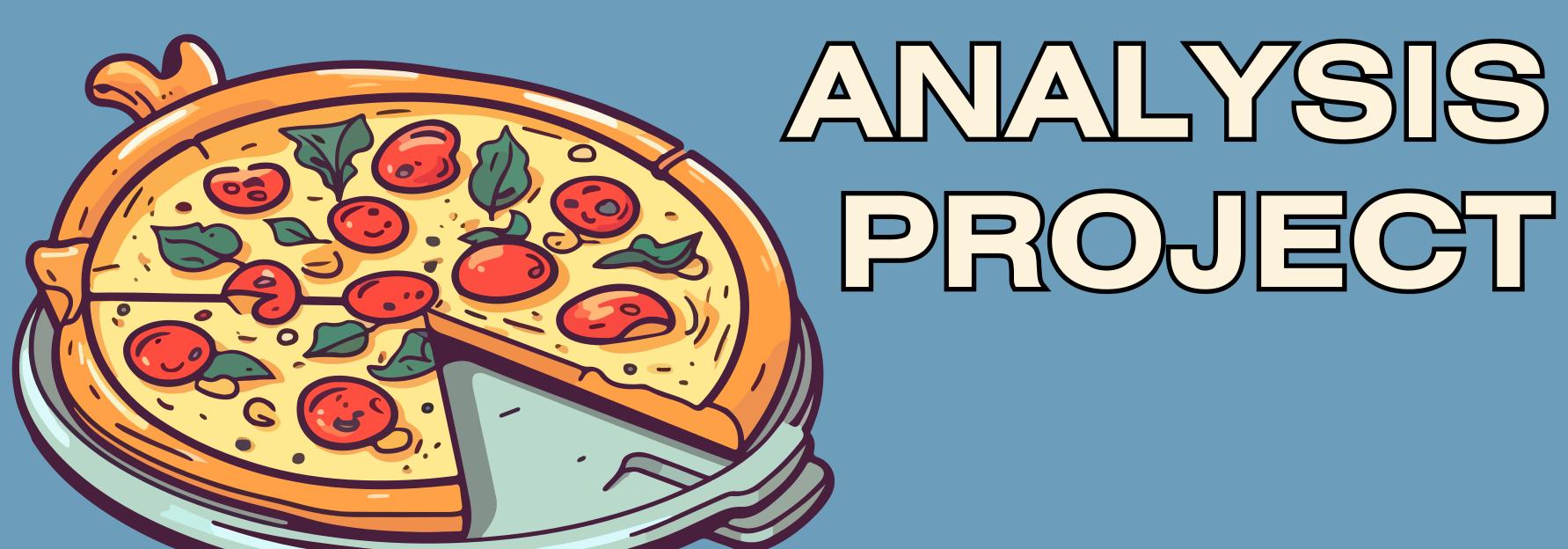
# WELCOME TO THE PIZZA SALES AND VOICE



# WELCOME TO THE PIZZA SALES ANALYSIS PROJECT!

THIS PROJECT IS DESIGNED TO PROVIDE INSIGHTS INTO THE SALES PERFORMANCE OF OUR PIZZA BUSINESS USING DATA STORED IN AN SQL DATABASE.

WE WILL LEVERAGE SQL TO ANALYZE SALES TRENDS, CUSTOMER PREFERENCES, AND OTHER KEY METRICS THAT CAN HELP US MAKE DATA-DRIVEN DECISIONS TO IMPROVE OUR BUSINESS.

### PROJECT GOALS

### THE PRIMARY GOALS OF THIS PROJECT ARE TO:

- 1. UNDERSTAND SALES TRENDS: IDENTIFY PEAK SALES PERIODS AND BEST-SELLING PIZZA VARIETIES.
- 2.CUSTOMER INSIGHTS: ANALYZE CUSTOMER PURCHASING PATTERNS TO ENHANCE MARKETING STRATEGIES.
- 3. INVENTORY MANAGEMENT: OPTIMIZE INVENTORY LEVELS BASED ON SALES DATA TO REDUCE WASTE AND ENSURE AVAILABILITY.
- 4. REVENUE ANALYSIS: ASSESS OVERALL REVENUE PERFORMANCE AND IDENTIFY AREAS FOR GROWTH.

#### DATA OVERVIEW

THE 4 DATASETS WE WILL BE WORKING WITH INCLUDES DETAILED RECORDS OF PIZZA SALES TRANSACTIONS.

### HERE ARE SOME KEY ATTRIBUTES OF THE DATA:

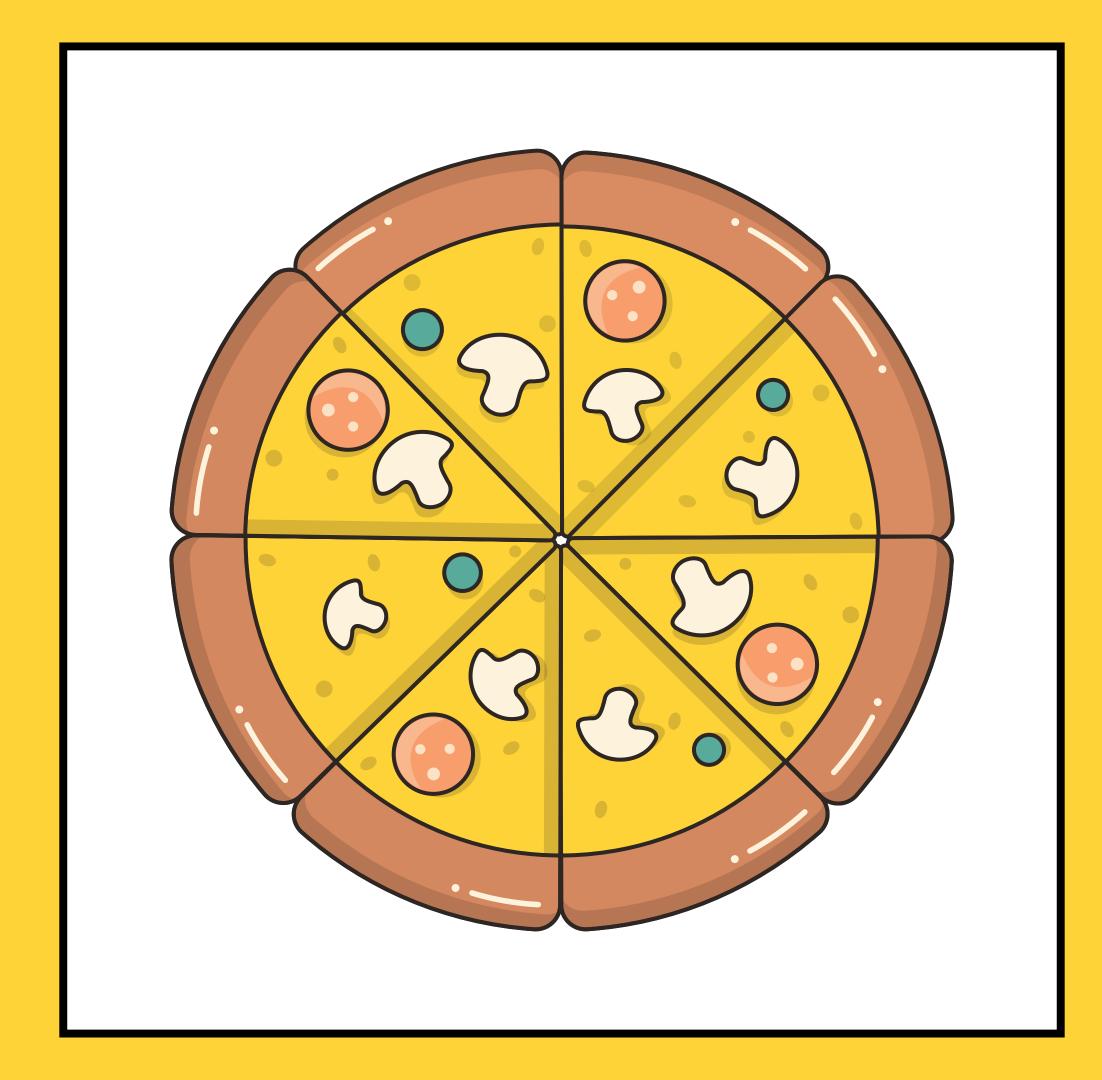
- TRANSACTION ID: UNIQUE IDENTIFIER FOR EACH SALE
- DATE AND TIME: TIMESTAMP OF THE SALE
- PIZZA TYPE: TYPE OF PIZZA SOLD (E.G., MARGHERITA, PEPPERONI, VEGGIE)
- SIZE: SIZE OF THE PIZZA (E.G., SMALL, MEDIUM, LARGE)
- QUANTITY: NUMBER OF PIZZAS SOLD IN THE TRANSACTION
- PRICE: PRICE OF THE PIZZA
- ORDER ID: UNIQUE IDENTIFIER FOR THE ORDER

1)Creating database

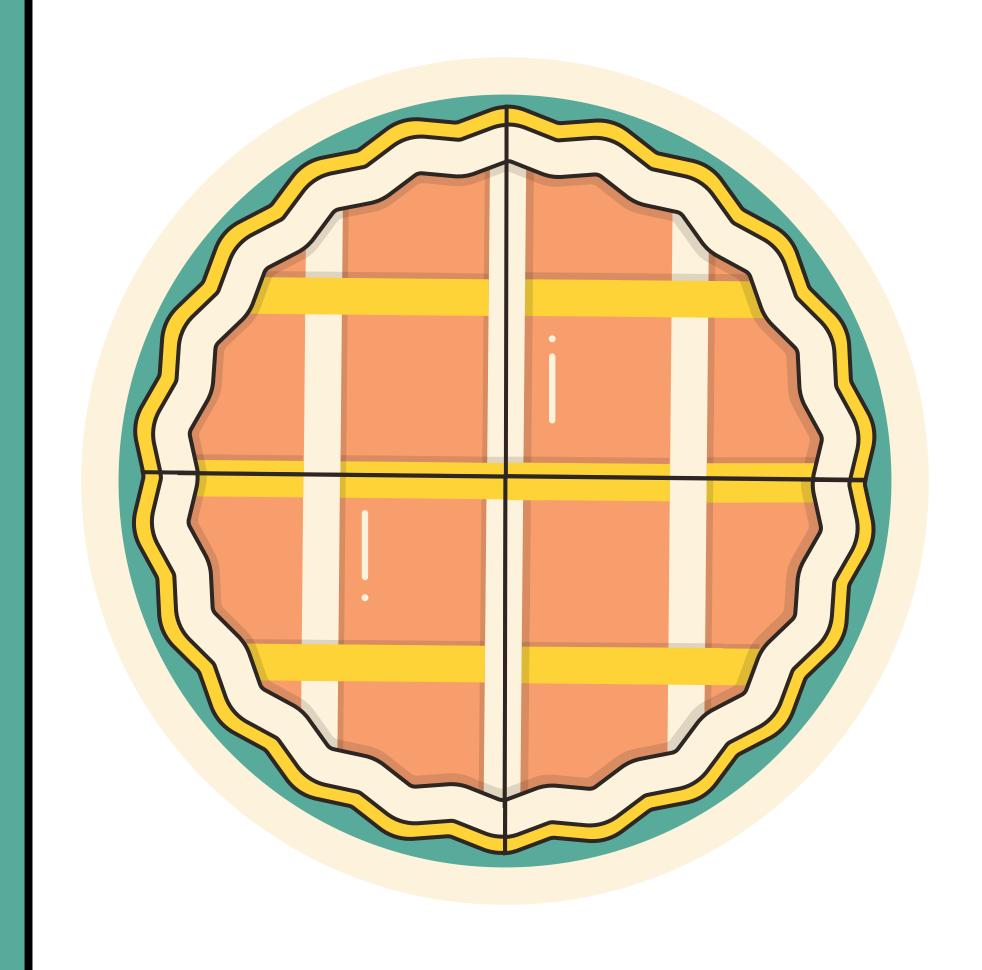
Code:

Create database pizzahut;

Solution: Refresh schema,
A new database called
pizzahut will be available



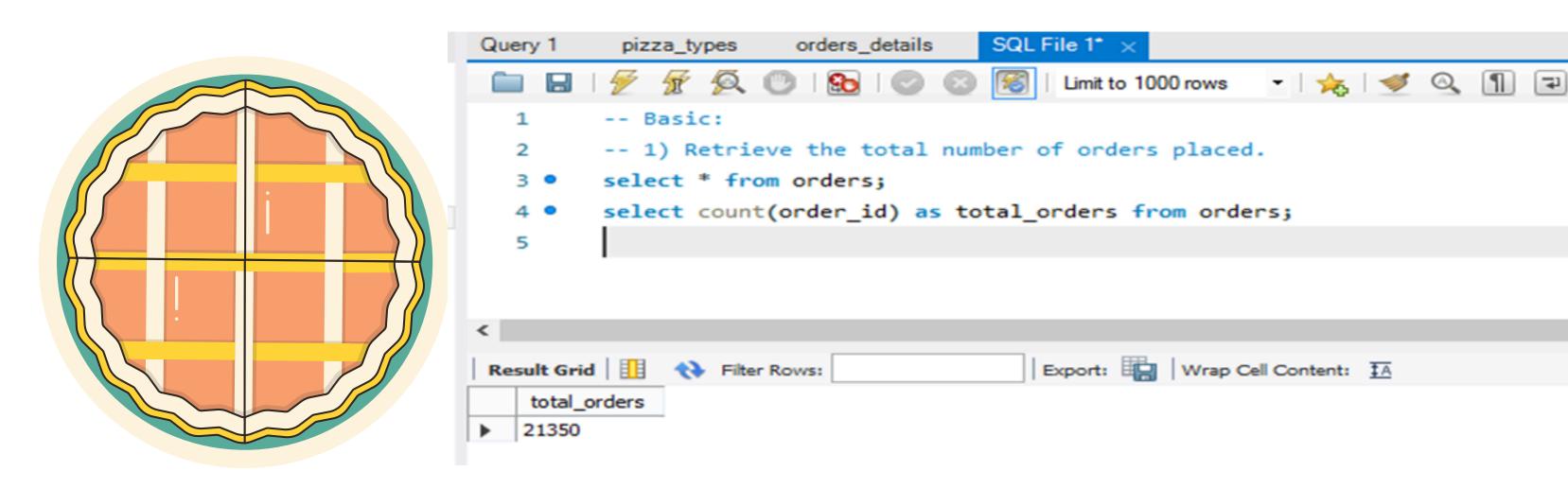


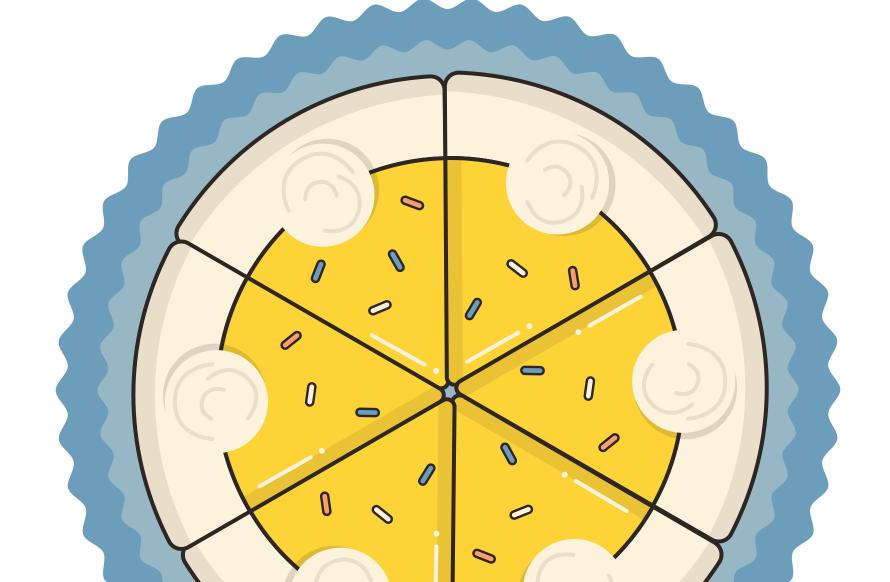


Retrieve the total number of orders placed.

## ANSWER

# select count(order\_id) as total\_orders from orders;

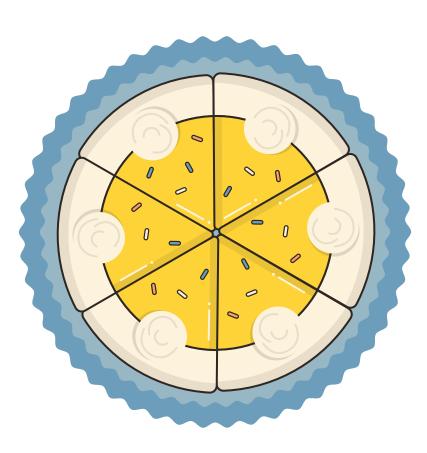






Calculate the total revenue generated from pizza sales.

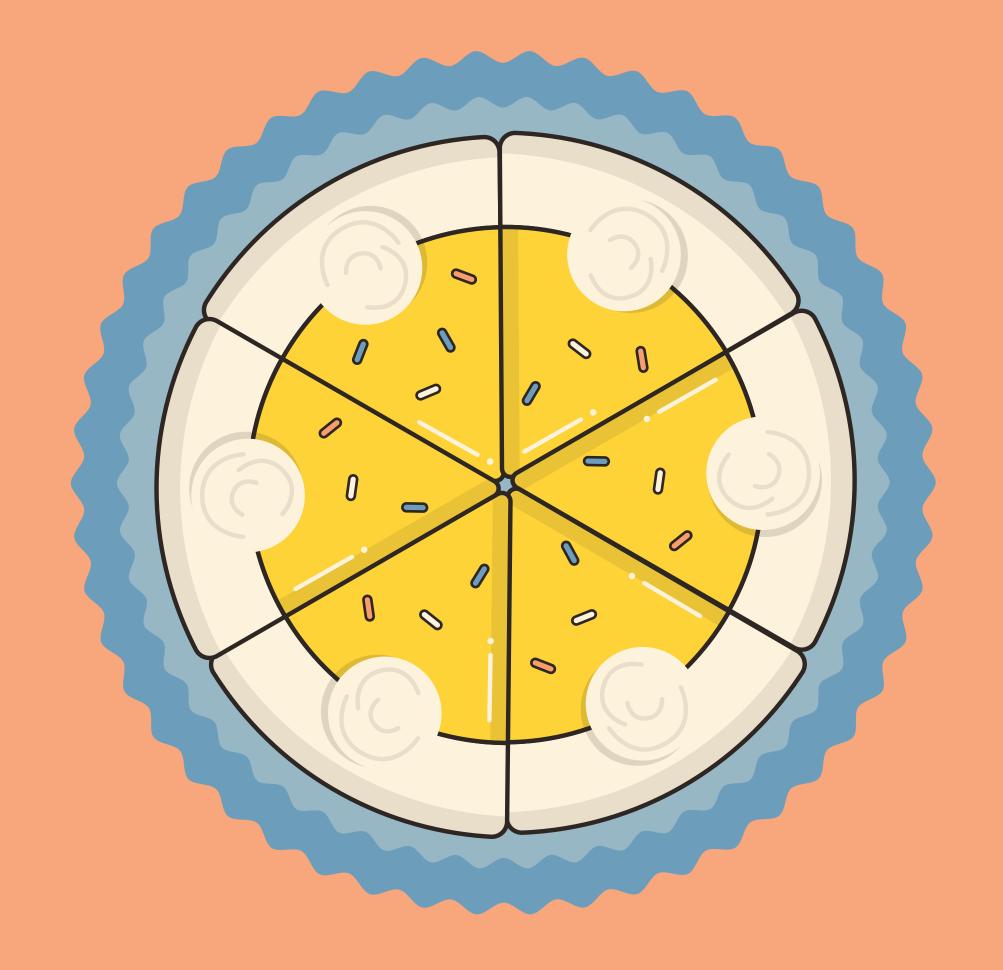
### ANSWER

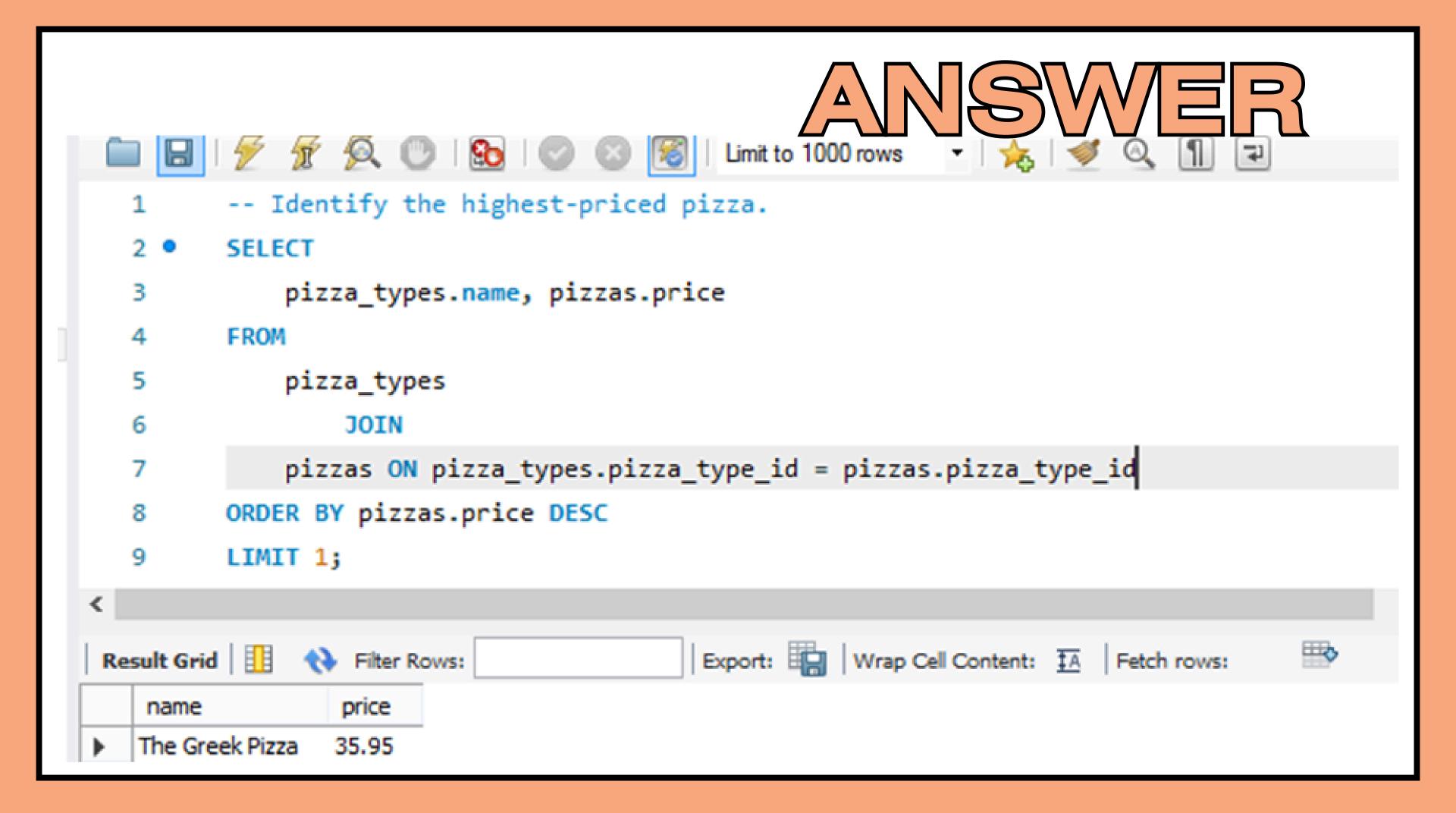


```
orders_details
                                       SQL File 1*
                                                                             orders_details
Query 1
          pizza_types
                                                    SQL File 2*
                                                                  pizzas
                                       8 | Limit to 1000 rows ▼ | ★ | ● Q ¶ ■
         -- 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 ON pizzas.pizza_id = orders_details.pizza_id
 10
 11
                                           Export: Wrap Cell Content: TA
Result Grid
              ♦ Filter Rows:
   total_sales
  115073.45
```



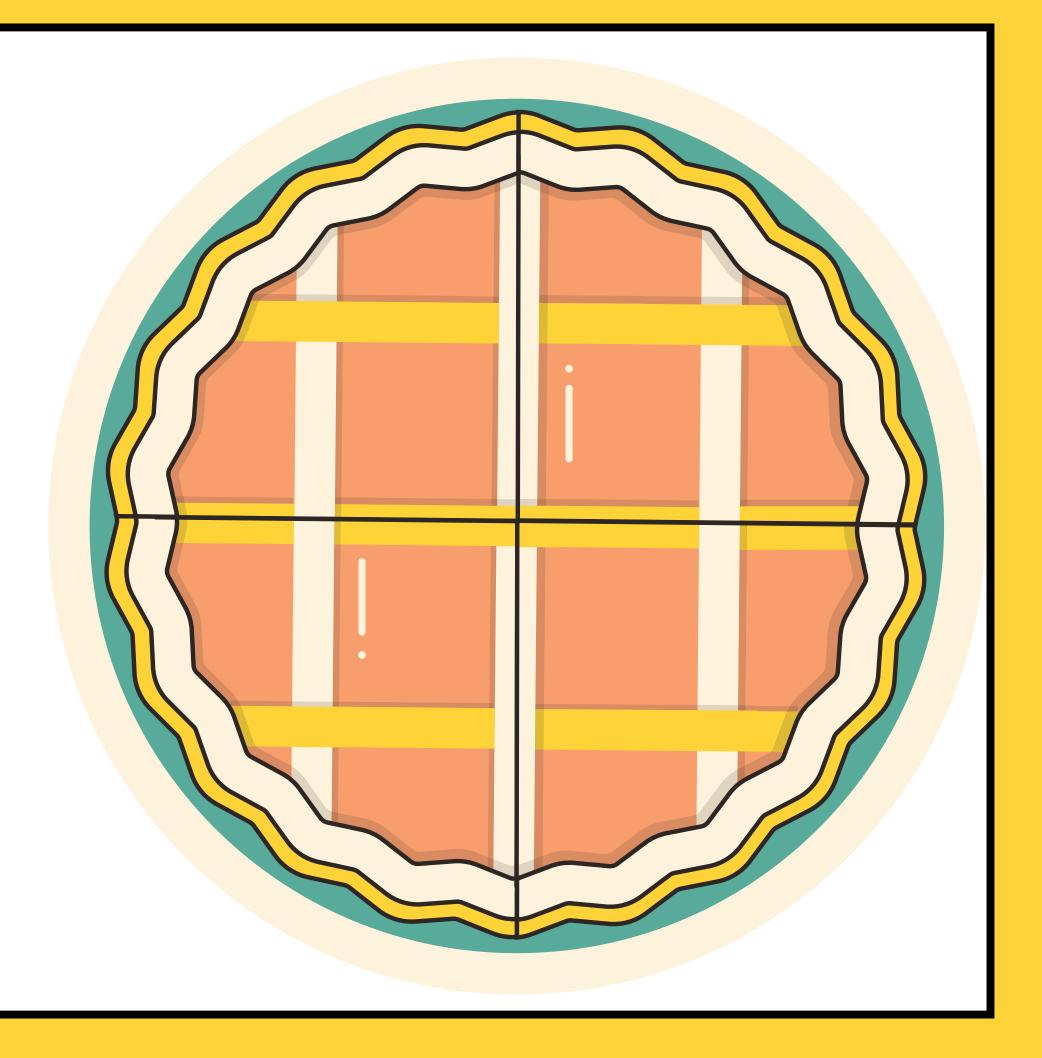
# Identify the highest-priced pizza.



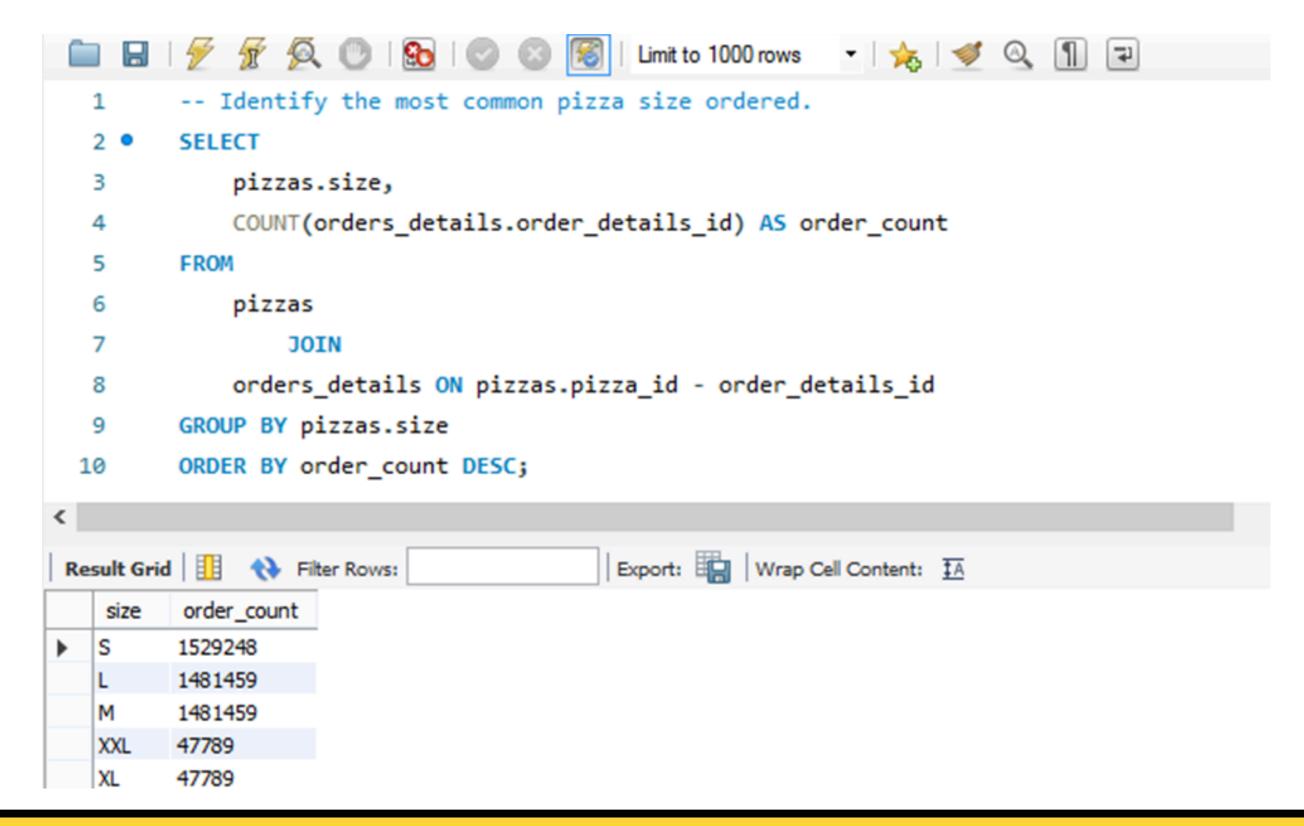


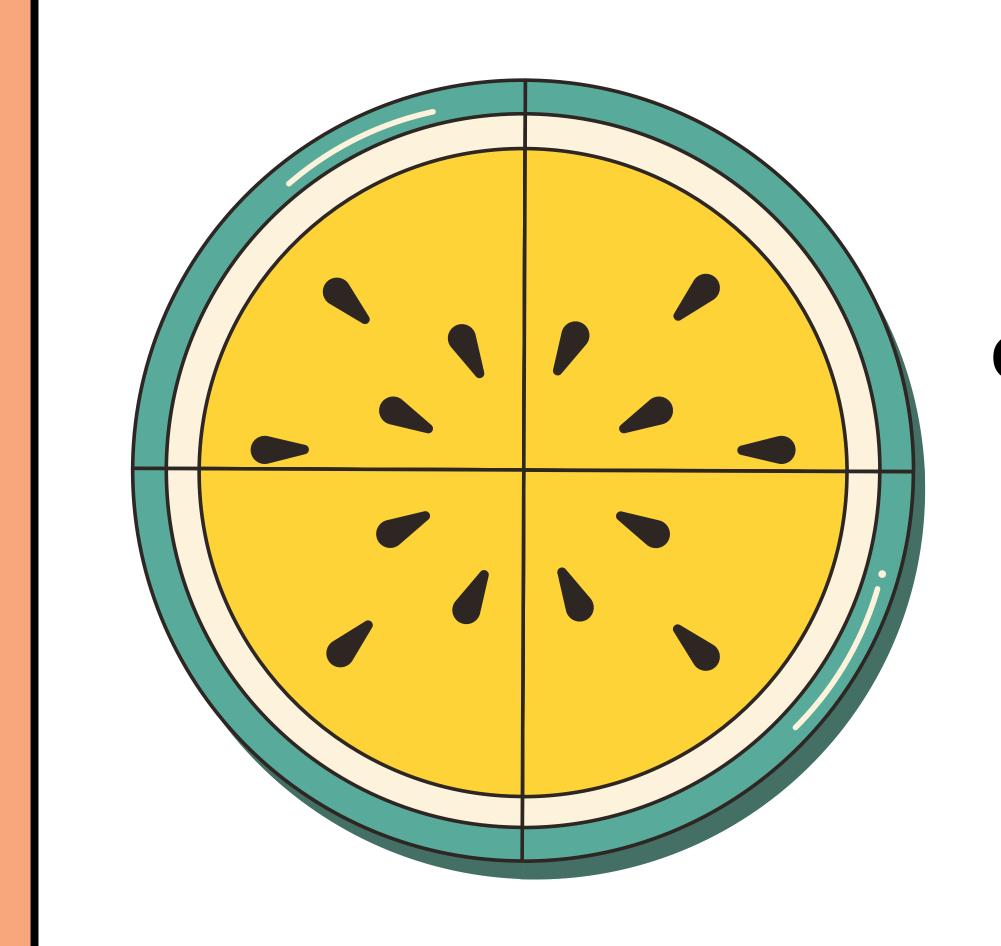


Identify the most common pizza size ordered.



## ANSWER





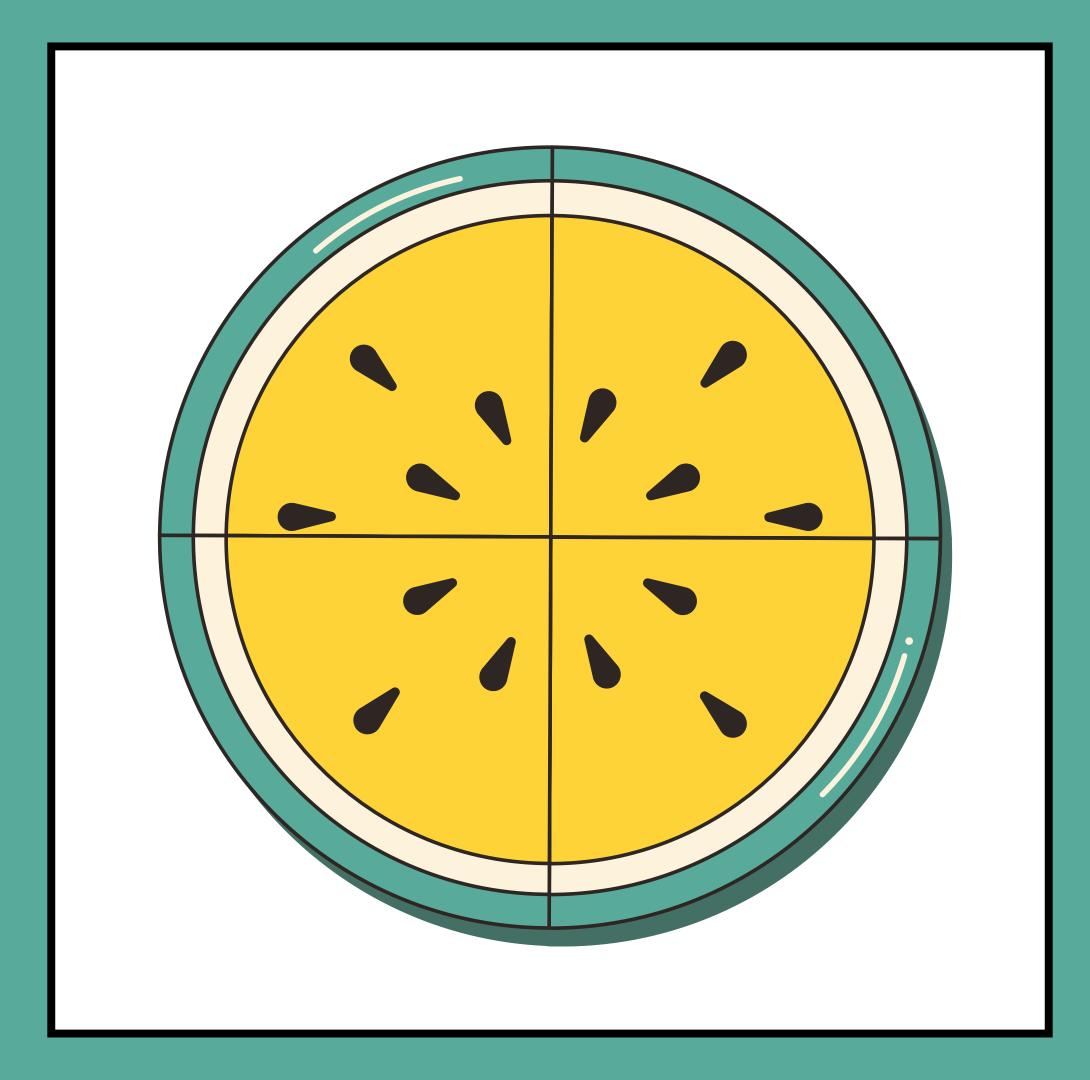


List the top 5 most ordered pizza types along with their quantities.

```
SELECT
             pizza_types.name, SUM(orders_details.quantity) AS 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
  9
         GROUP BY pizza_types.name
 10
        ORDER BY quantity DESC
 11
        LIMIT 5;
 12
Export: Wrap Cell Content: TA Fetch rows:
                         quantity
   name
  The Classic Deluxe Pizza
                         2453
  The Barbecue Chicken Pizza
                         2432
  The Hawaiian Pizza
                         2422
  The Pepperoni Pizza
                         2418
  The Thai Chicken Pizza
                         2371
```

7

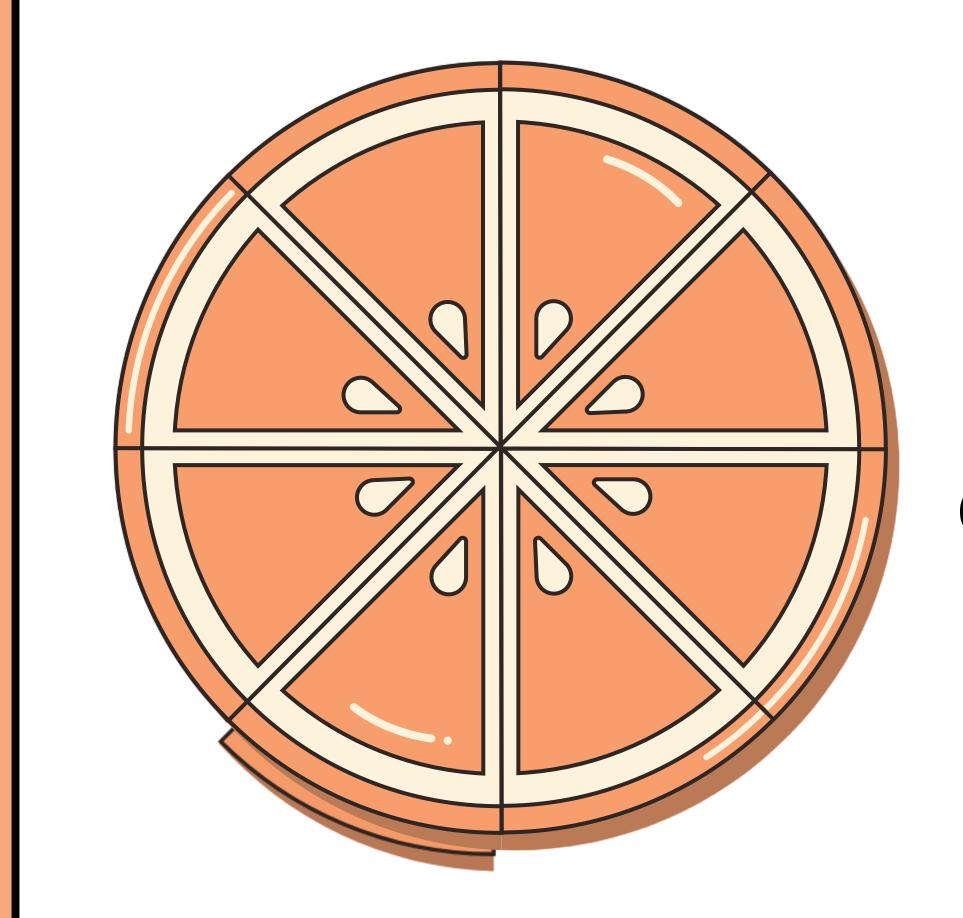
Join the necessary tables to find the total quantity of each pizza category ordered.



```
-- Join the necessary tables to find the total quantity of each pizza category ordered.
2
 3 •
      SELECT
          SUM(orders_details.quantity) AS Total_Quantity,
4
 5
          pizza_types.category
                                                   6
       FROM
          pizza_types
              JOIN
 8
          pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
 9
              JOIN
10
          orders_details ON pizzas.pizza_id = orders_details.pizza_id
11
12
      GROUP BY pizza_types.category
      ORDER BY Total_Quantity DESC
13
```

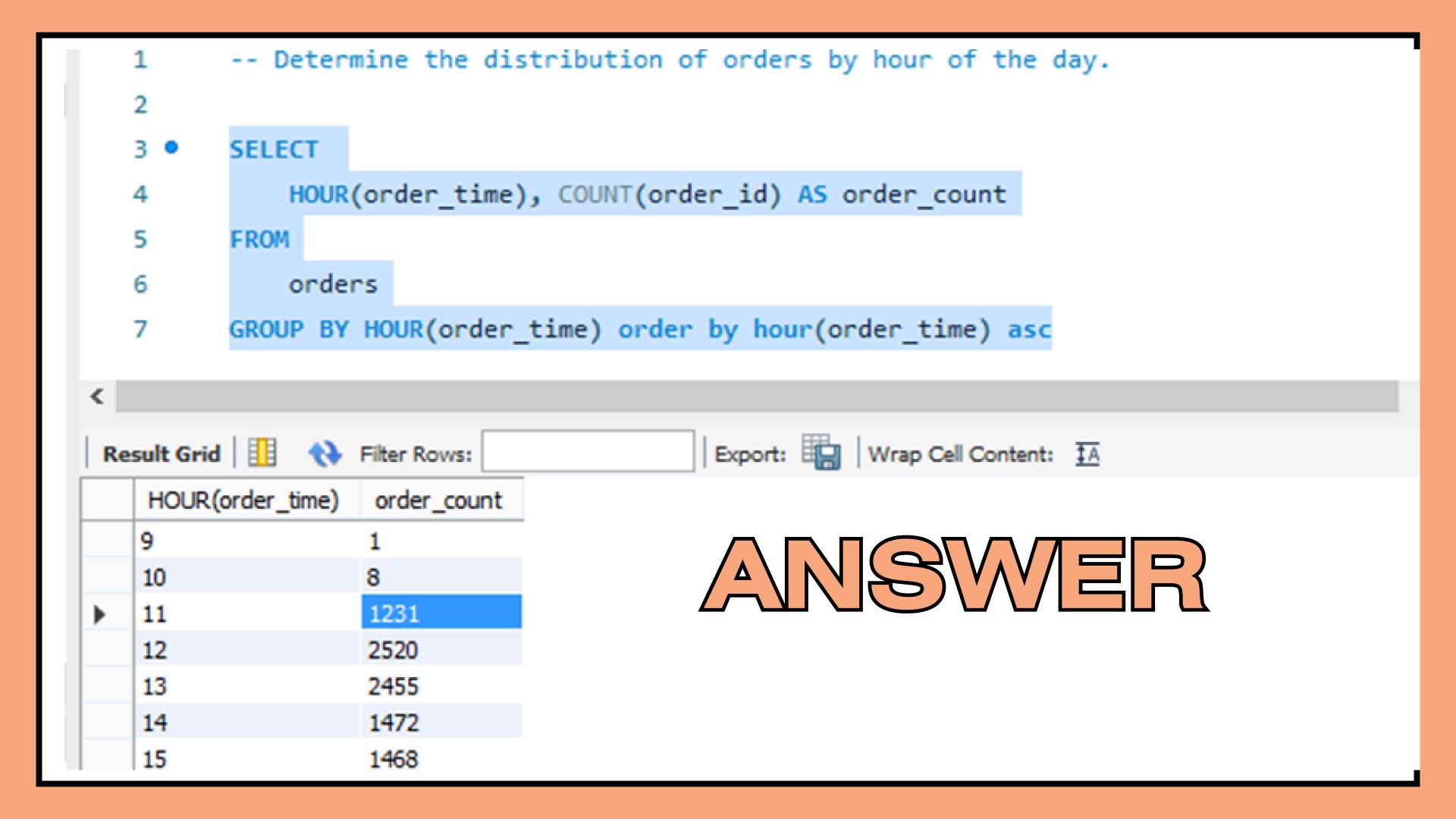
Export: Wrap Cell Content: IA

| Result Grid |                |          |
|-------------|----------------|----------|
|             | Total_Quantity | category |
| •           | 14888          | Classic  |
|             | 11987          | Supreme  |
|             | 11649          | Veggie   |



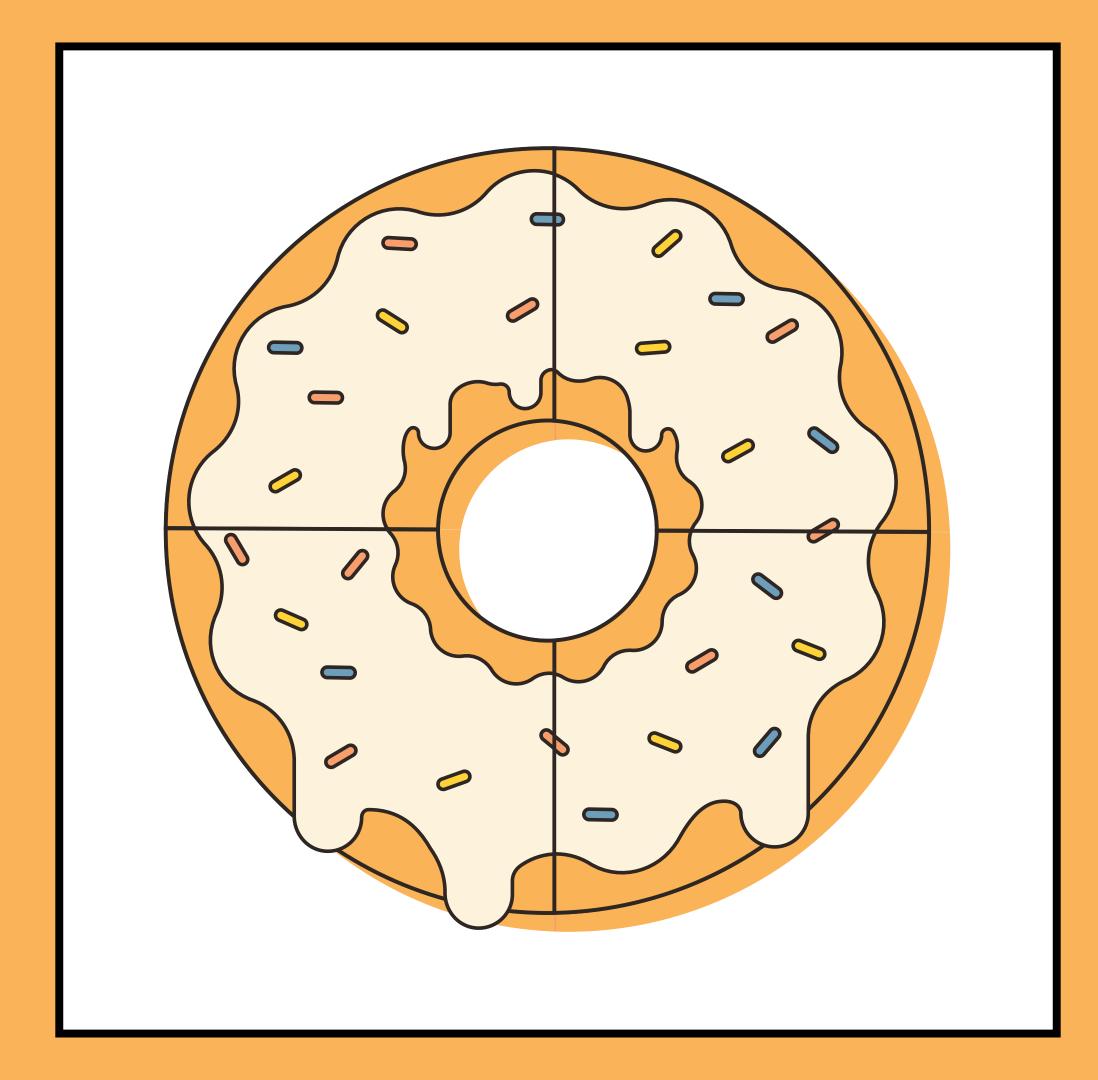


Determine the distribution of orders by hour of the day.

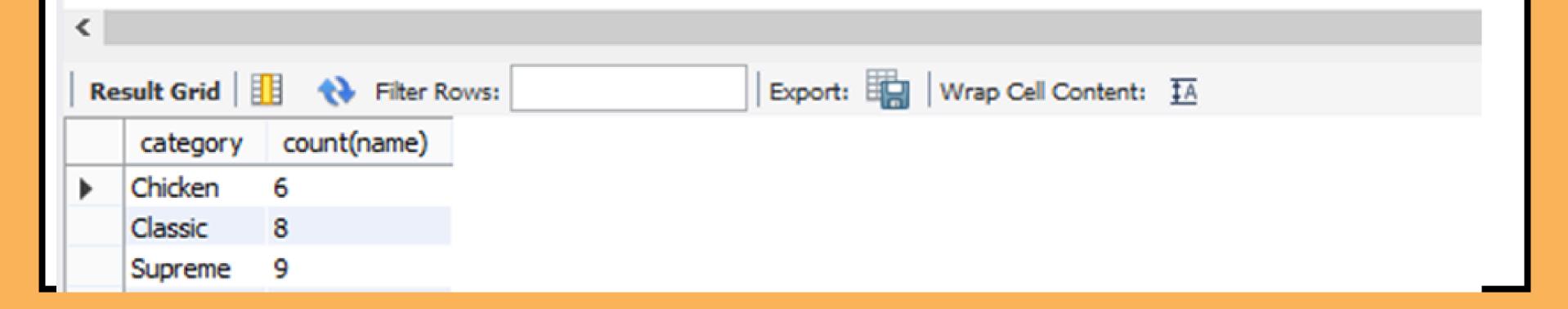


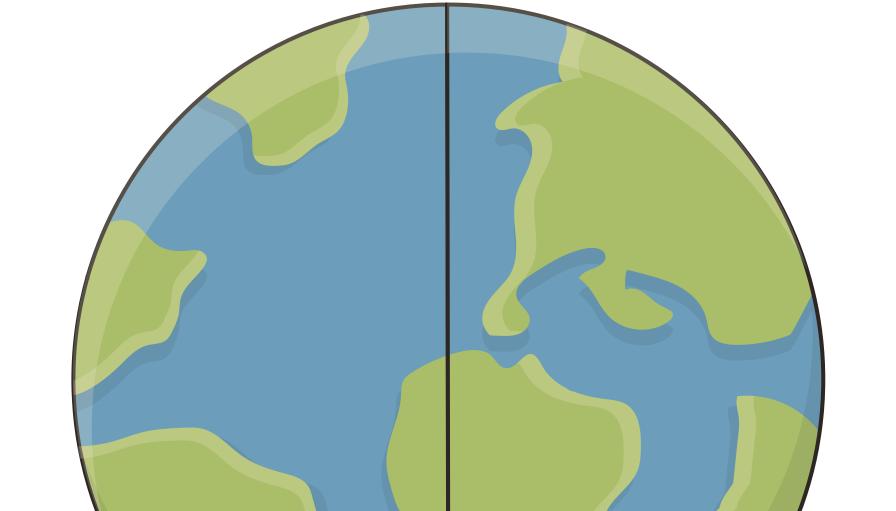


Join relevant tables to find the category-wise distribution of pizzas.



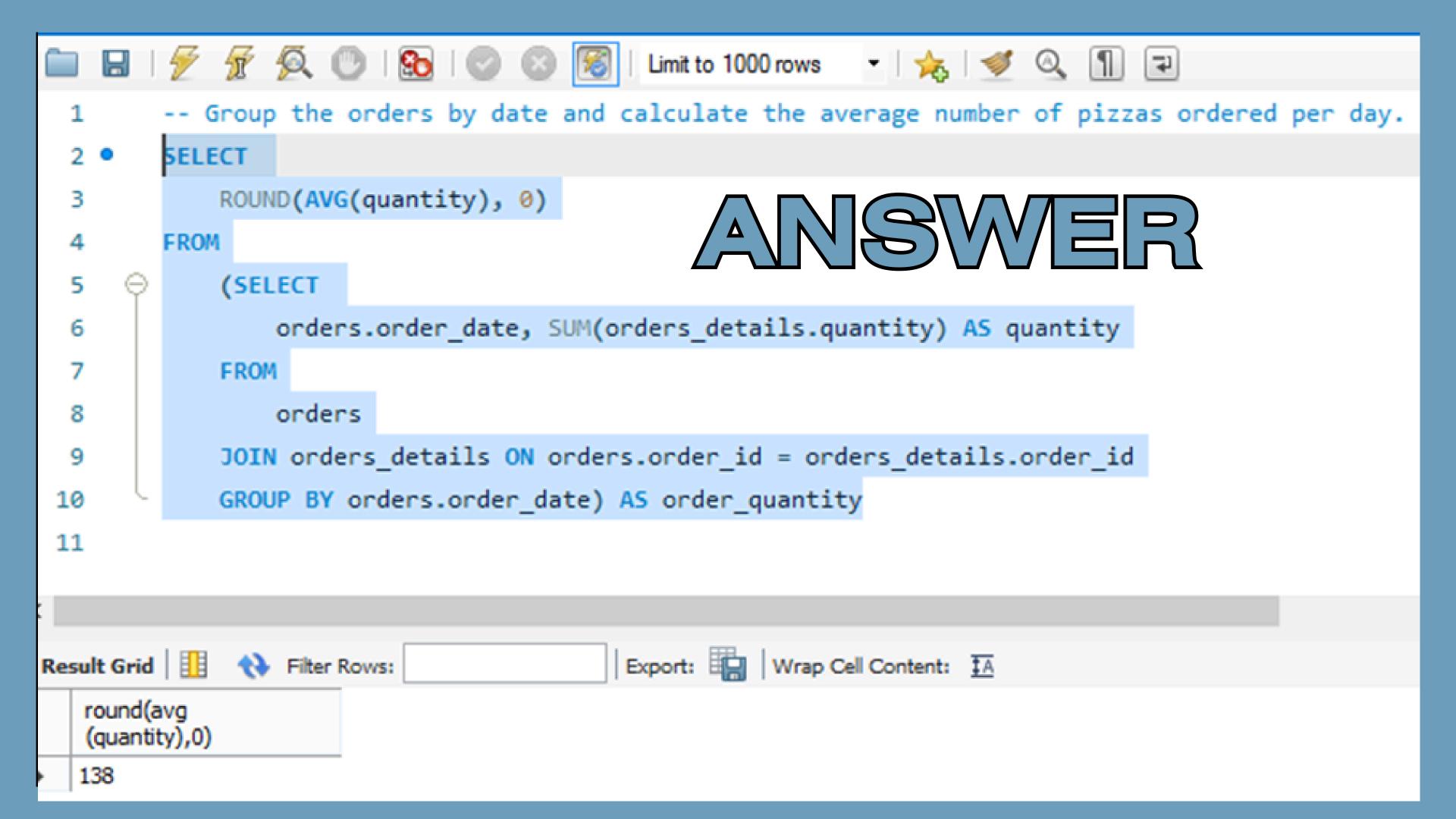
## ANSWER





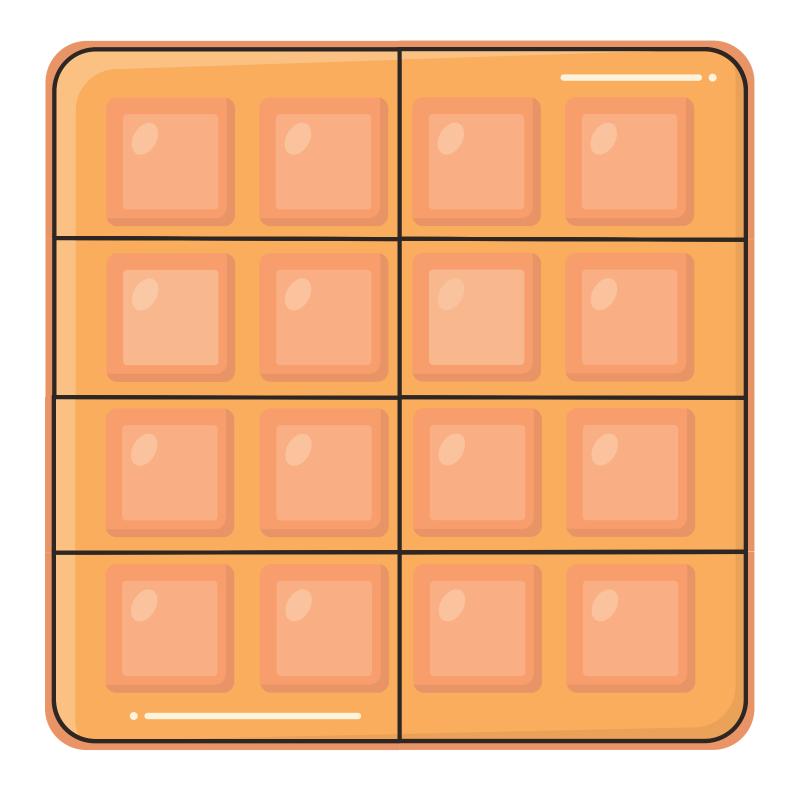
### 10

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





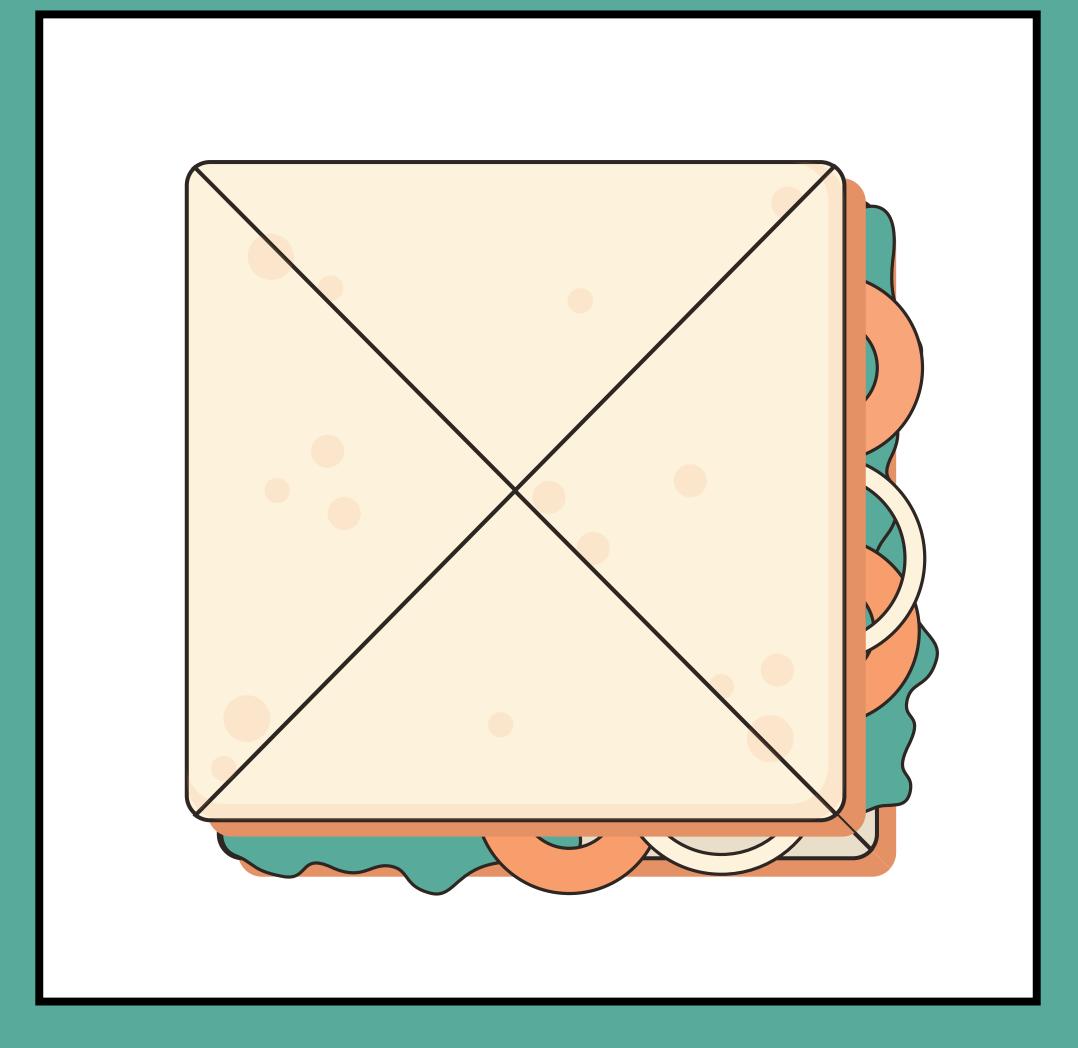
Determine the top 3 most ordered pizza types based on revenue.



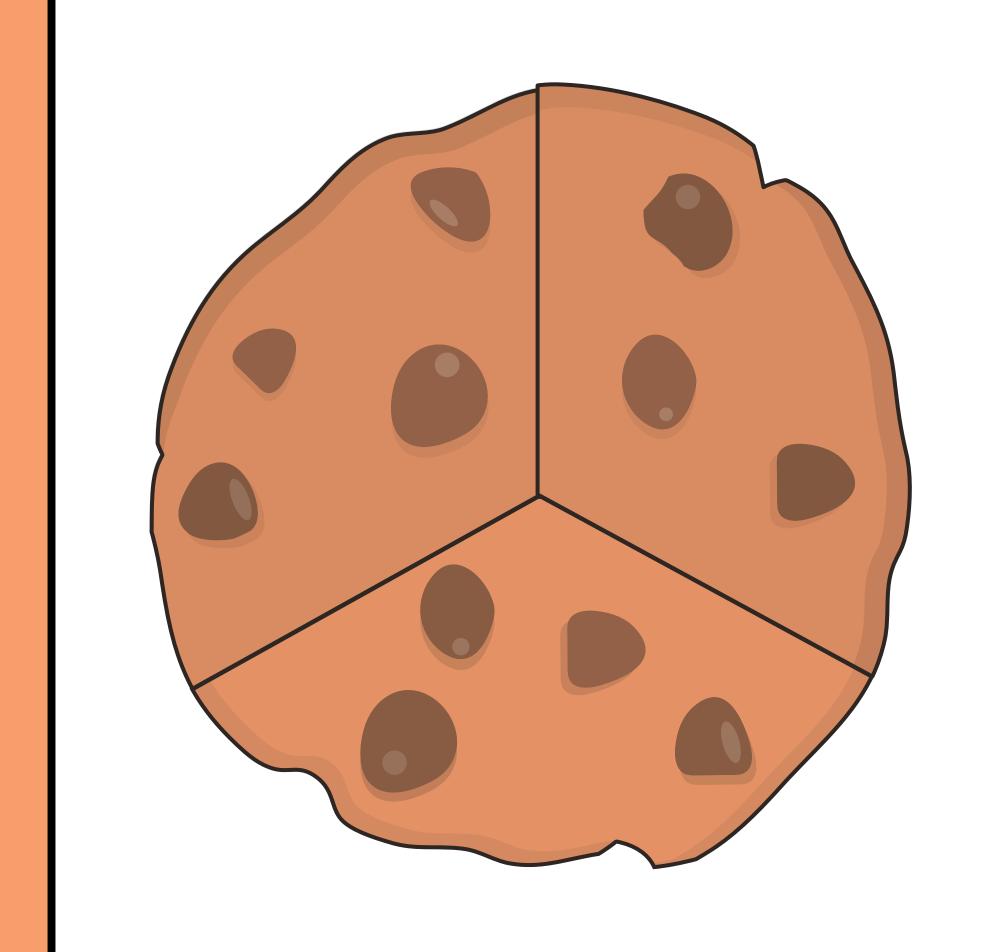
```
-- Determine the top 3 most ordered pizza types based on revenue.
        SELECT
  2 •
             pizza types.name,
             SUM(orders_details.quantity * pizzas.price) AS revenue
  4
  5
         FROM
             pizza_types
  6
                 JOIN
             pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
  8
                 JOIN
             orders_details ON orders_details.pizza_id = pizzas.pizza_id
 10
 11
         GROUP BY pizza_types.name
         ORDER BY revenue DESC
12
         LIMIT 3
 13
Result Grid Filter Rows:
                                           Export: Wrap Cell Content: TA Fetch rows:
   name
                         revenue
  The Thai Chicken Pizza
                         43434.25
  The Barbecue Chicken Pizza
                         42768
  The California Chicken Pizza 41409.5
```

12

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



```
SELECT
            pizza_types.category,
4
            ROUND(SUM(orders_details.quantity * pizzas.price) / (SELECT
5
                           ROUND(SUM(orders_details.quantity * pizzas.price),
                                       2) AS total_sales
                       FROM
8
                           orders_details
9
                               JOIN
                           pizzas ON pizzas.pizza_id = orders_details.pizza_id) * 100,2)
10
11
                       AS revenue
                                                        12
        FROM
13
           pizza_types
14
                JOIN
15
           pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
16
               JOIN
           orders_details ON orders_details.pizza_id = pizzas.pizza_id
17
18
        GROUP BY category ORDER BY revenue DESC
```

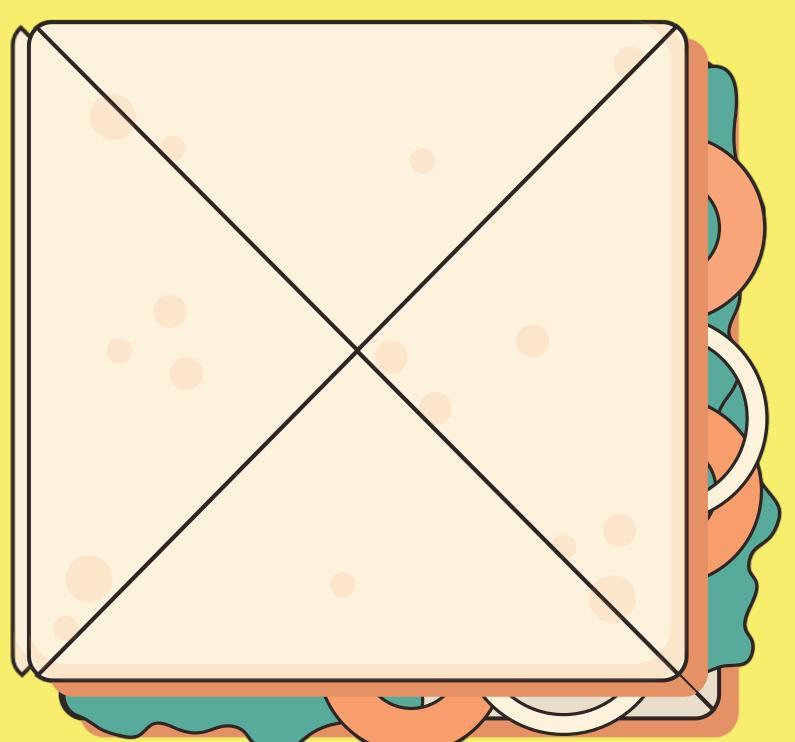




Analyze the cumulative revenue generated over time.

```
-- 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
 10
           on orders.order_id = orders_details.order_id
           group by orders.order_date) as sales;
 13
Result Grid
                                             Wrap Cell Content: ‡A
               Filter Rows:
   order_date
            cum_revenue
            2713.85000000000004
  2015-01-01
```





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

```
-- 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 rn from
        (select pizza_types.category, pizza_types.name,
        sum((orders_details.quantity) * pizzas.price) as revenue
  6
        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
 10
 11
        group by pizza_types.category, pizza_types.name) as a) as b
12
        where rn<=3;
Result Grid
                                                     Wrap Cell Content: $\frac{1}{4}
                 Filter Rows:
```

|   | name                         | revenue  |
|---|------------------------------|----------|
| • | The Thai Chicken Pizza       | 43434.25 |
|   | The Barbecue Chicken Pizza   | 42768    |
|   | The California Chicken Pizza | 41409.5  |
|   | The Classic Deluxe Pizza     | 38180.5  |
|   | The Hawaiian Pizza           | 32273.25 |