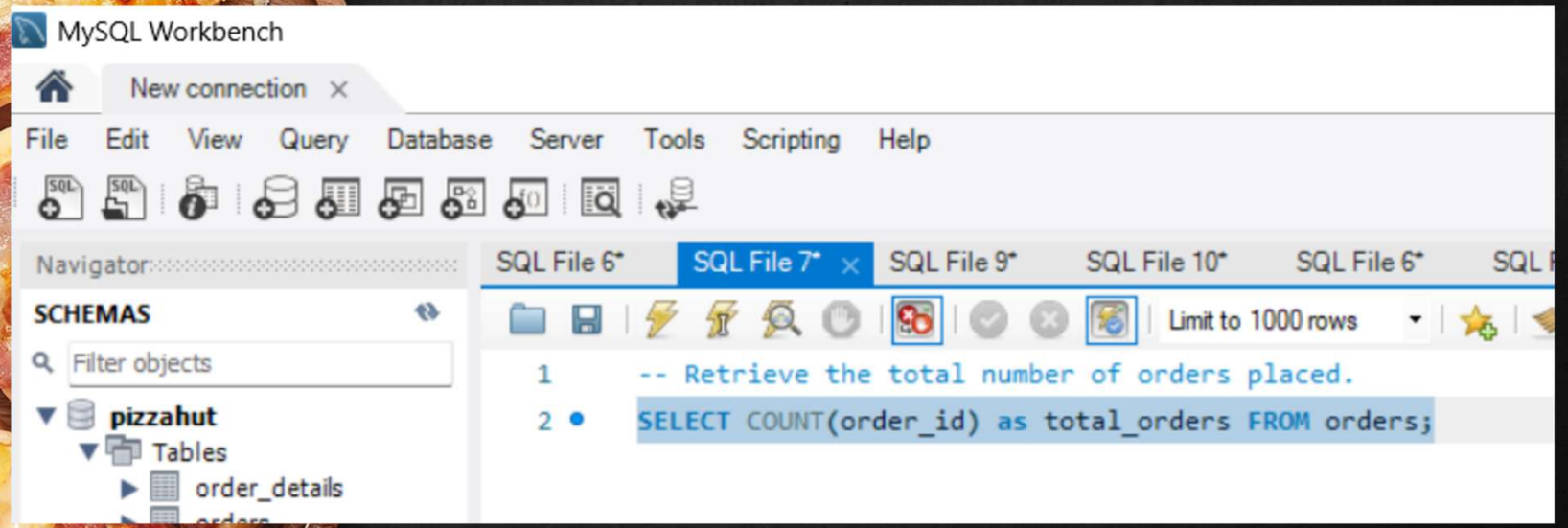
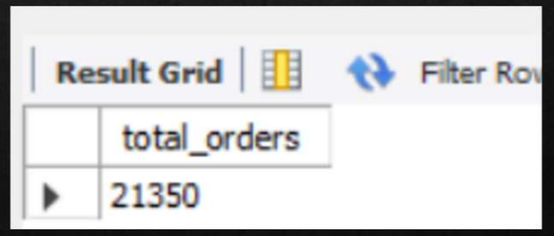
PIZZA SALES DATA ANALYSIS USING SQL

INTRODUCTION

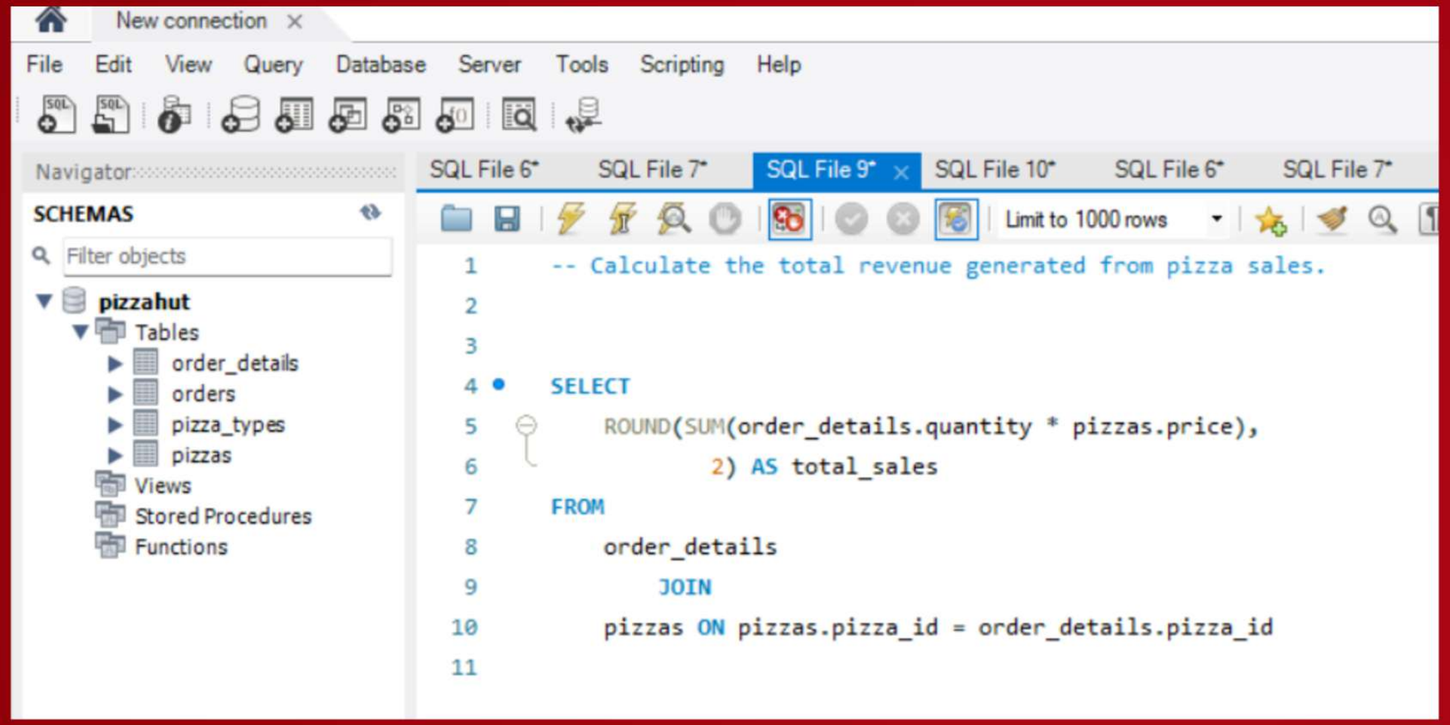
- This project focuses on analyzing the Pizza sales dataset using SQL to understand business performance.
- It explores sales, orders, pizza categories,size and revenue contribution.
- Interconnected tables such as Orders, Order_Details,Pizza and Pizza_Types simulate real-world sales workflows.
- SQL queries are used to extract, transform and analyze sales pattern and performance metrics.
- The project strengthens concepts of database designs.joins,normalization and analytical SQL
- Throught analysis insights are gained and revenue distribution peak order times, and best-selling pizzas.
- The overall goals is to support business decision using data-driven insights.

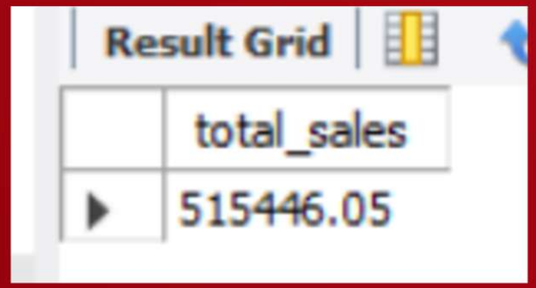
1.RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED.



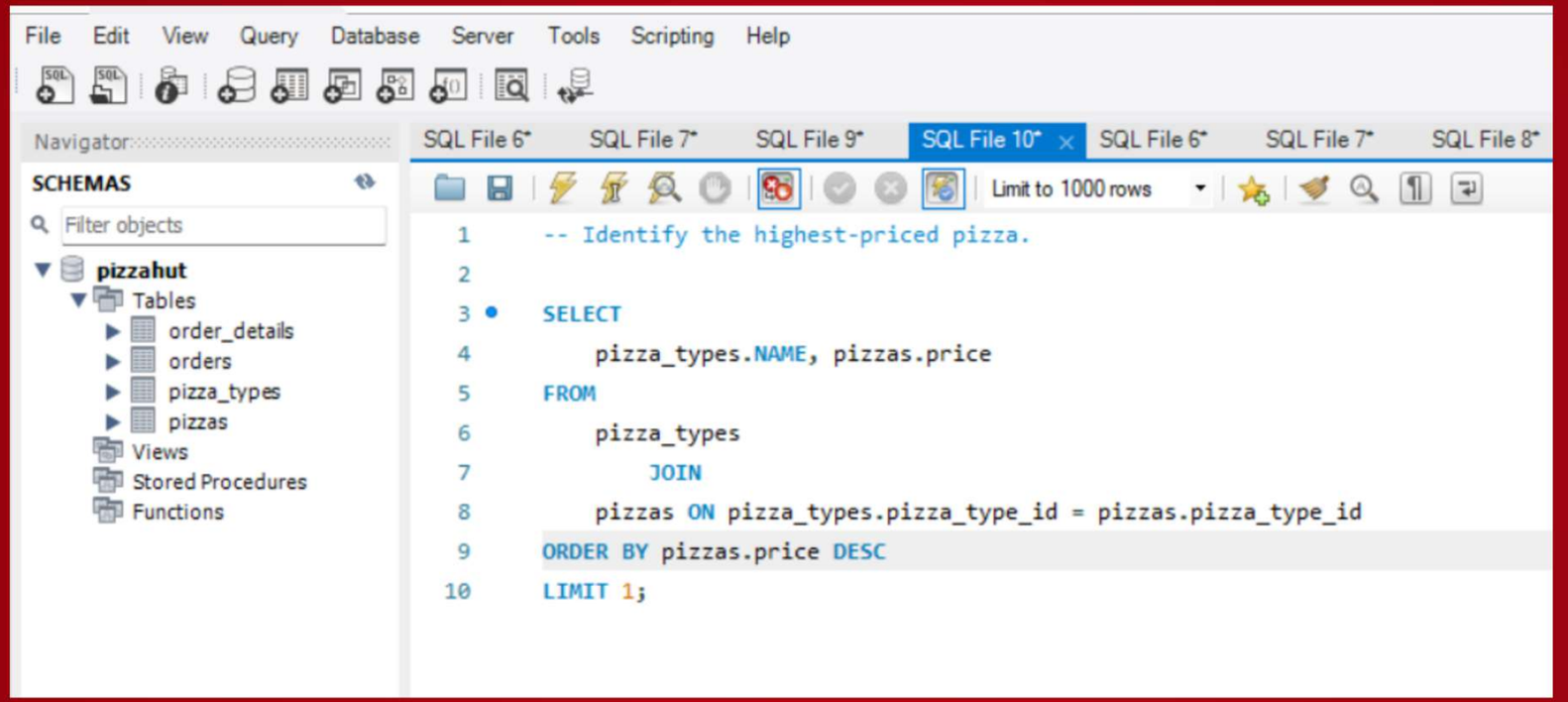


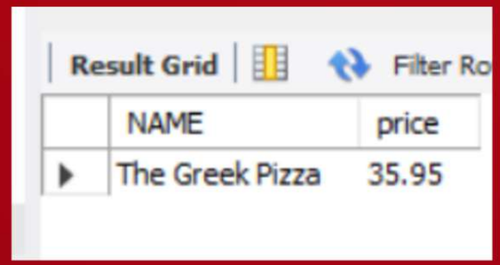
2.CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.





3.IDENTIFY THE HIGHEST-PRICED PIZZA.





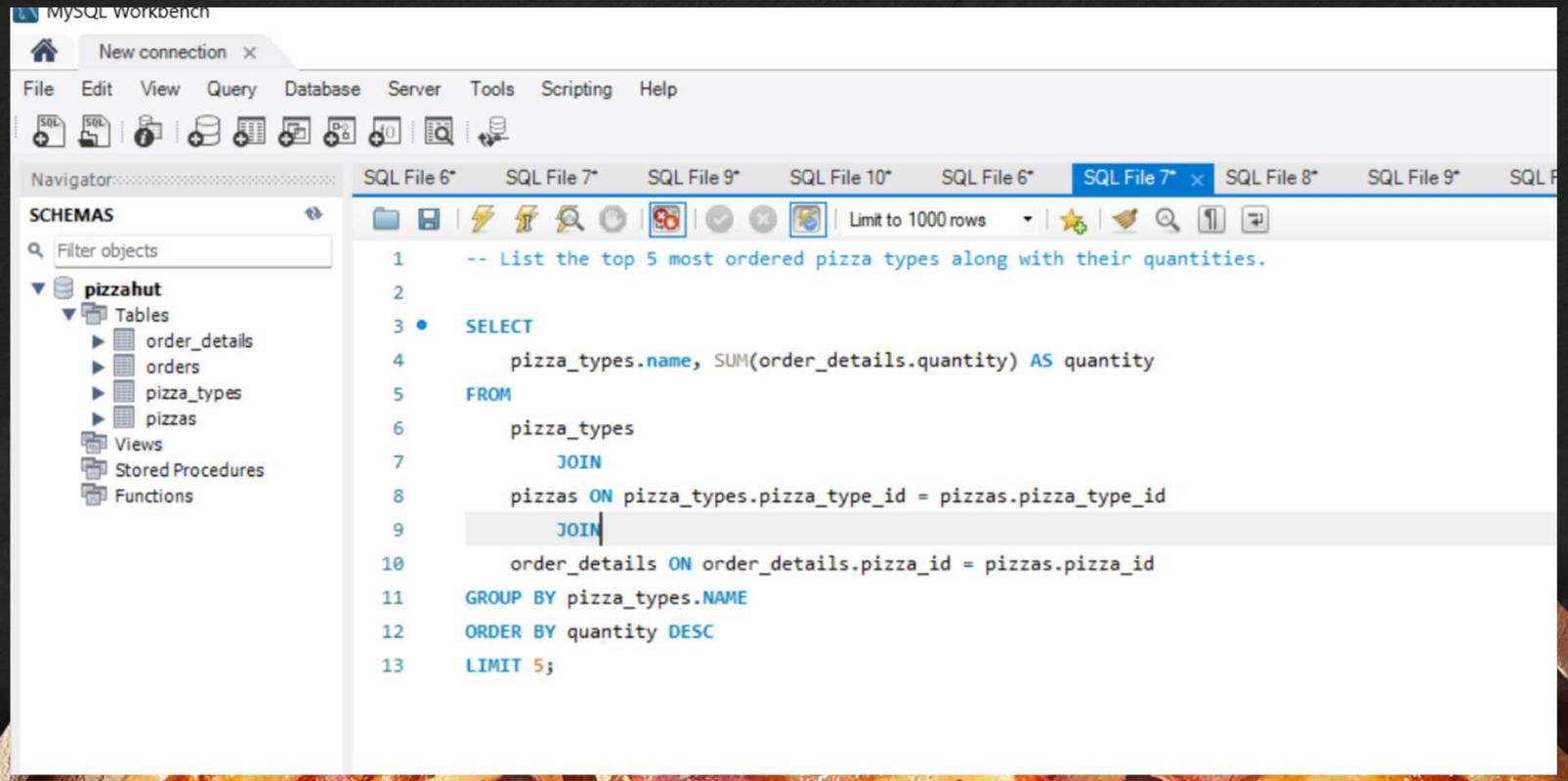
4.IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.

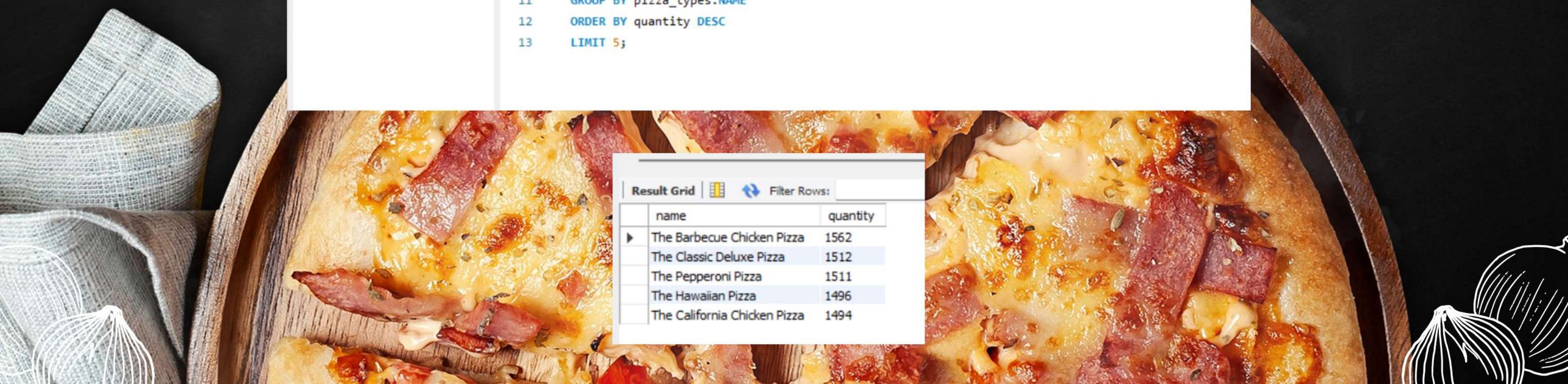
```sql
-- Identify the most common pizza size ordered.

SELECT
    pizzas.size,
    COUNT(order_details.order_details_id) AS order_count
FROM
    pizzas
JOIN
    order_details
ON
    pizzas.pizza_id = order_details.pizza_id
GROUP BY
    pizzas.size
ORDER BY
    order_count DESC
LIMIT
    0, 1000;
```

Result Grid | Filter Rows:

size	order_count
L	11696
M	9707
S	8837
XL	357
XXL	18

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

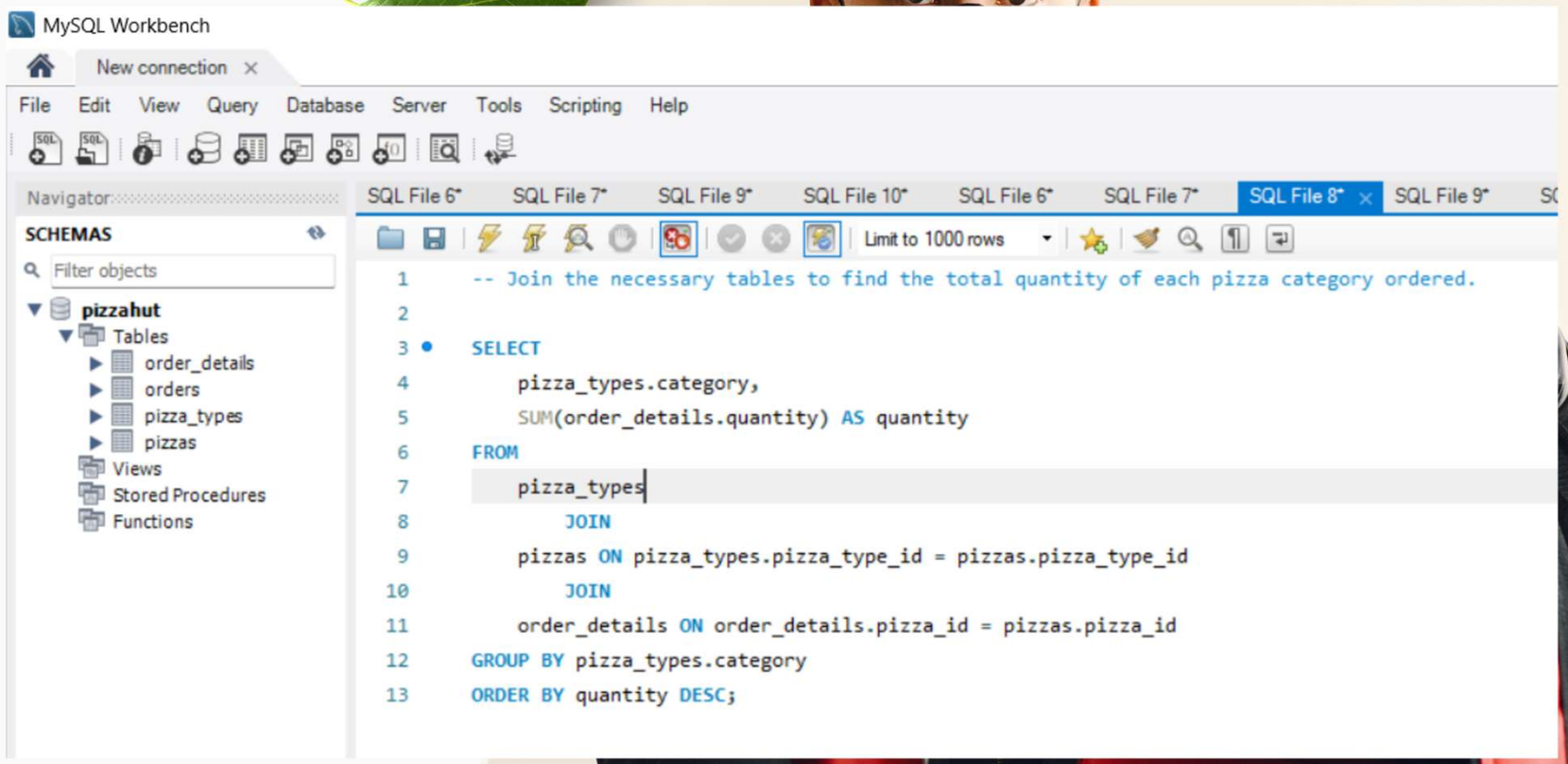


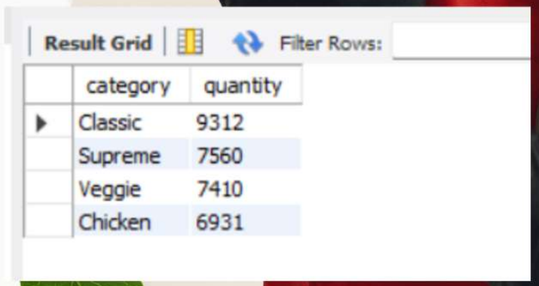


Result Grid | Filter Rows:

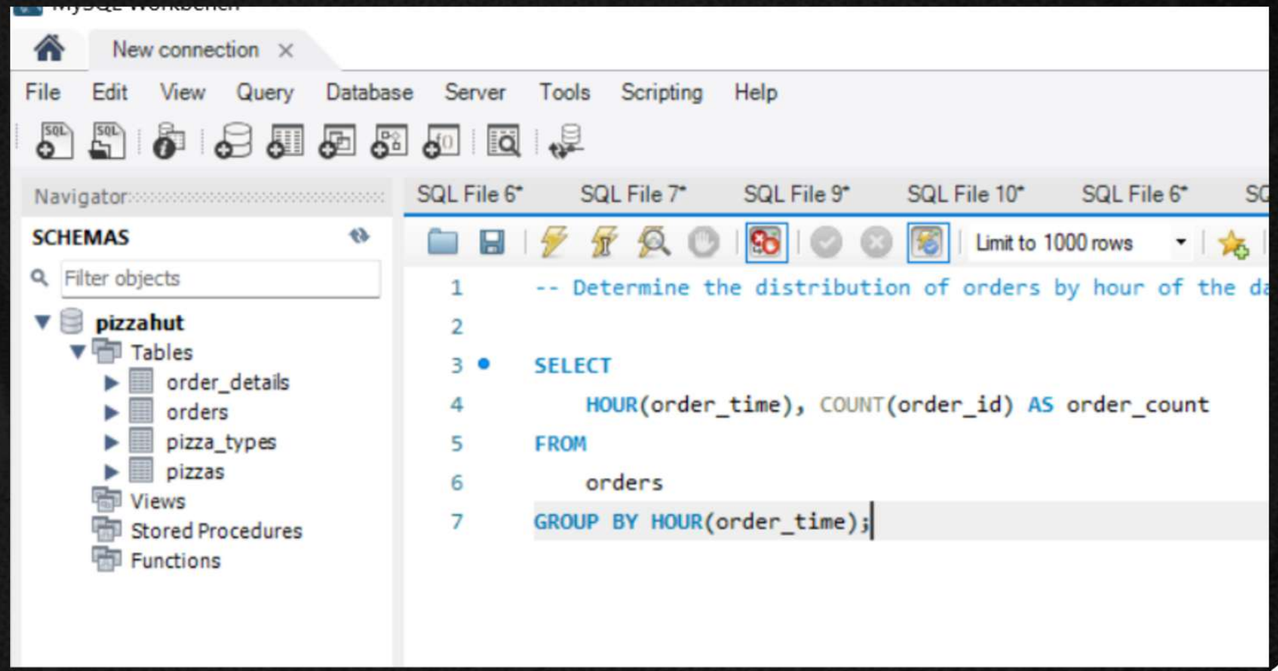
name	quantity
The Barbecue Chicken Pizza	1562
The Classic Deluxe Pizza	1512
The Pepperoni Pizza	1511
The Hawaiian Pizza	1496
The California Chicken Pizza	1494

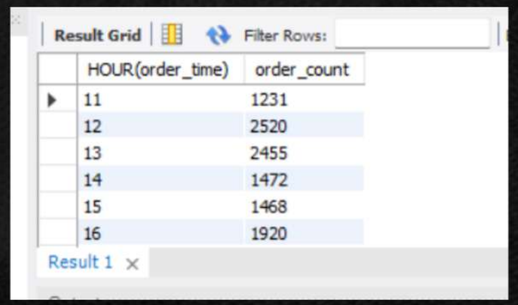
8.JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.





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





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

se Server Tools Scripting Help

SQL File 6* SQL File 7* SQL File 9* SQL File 10* SQL File 6* SQL File 7* SQL File 8*

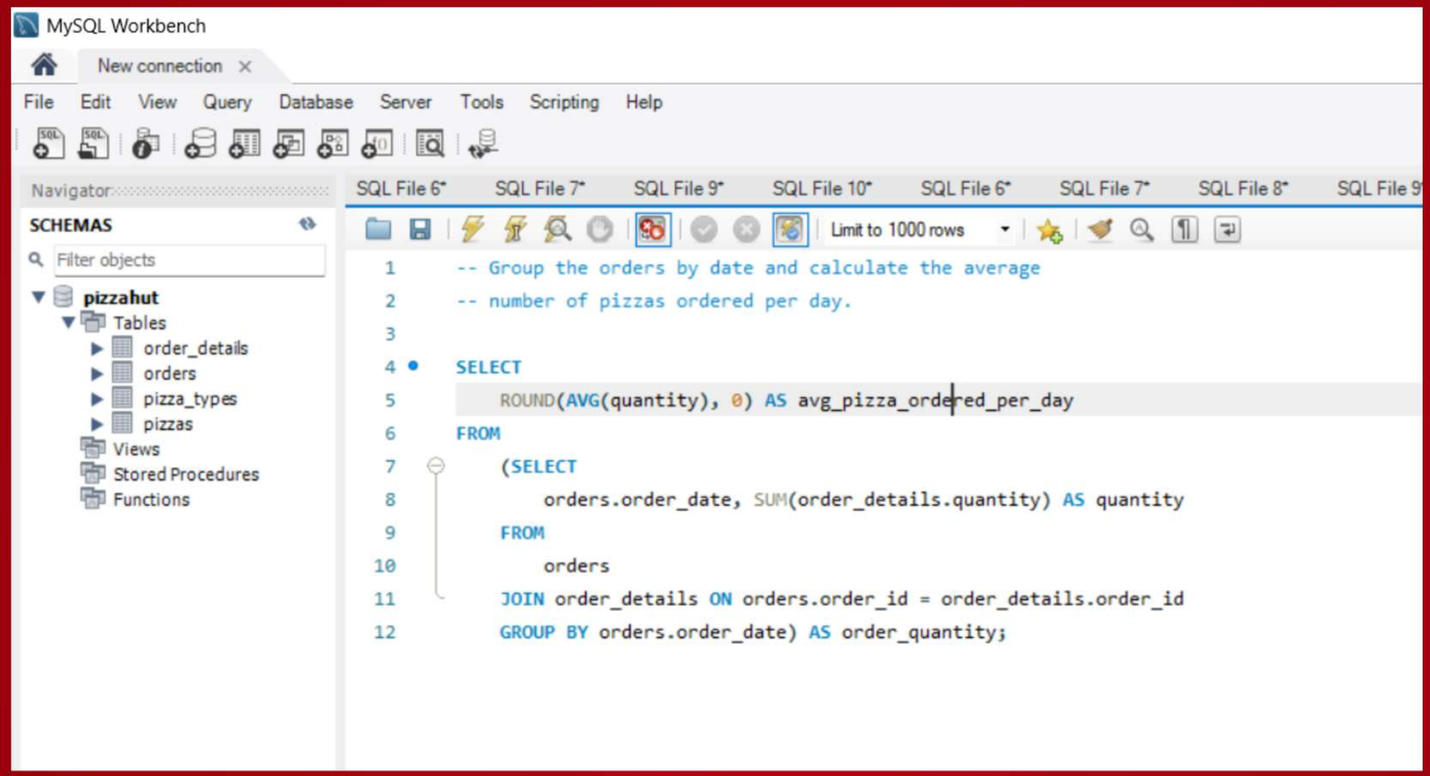
Limit to 1000 rows

```
1   -- Join relevant tables to find the category-wise distribution of pizzas
2
3   SELECT category , COUNT(NAME) FROM pizza_types
4   GROUP BY category;
```

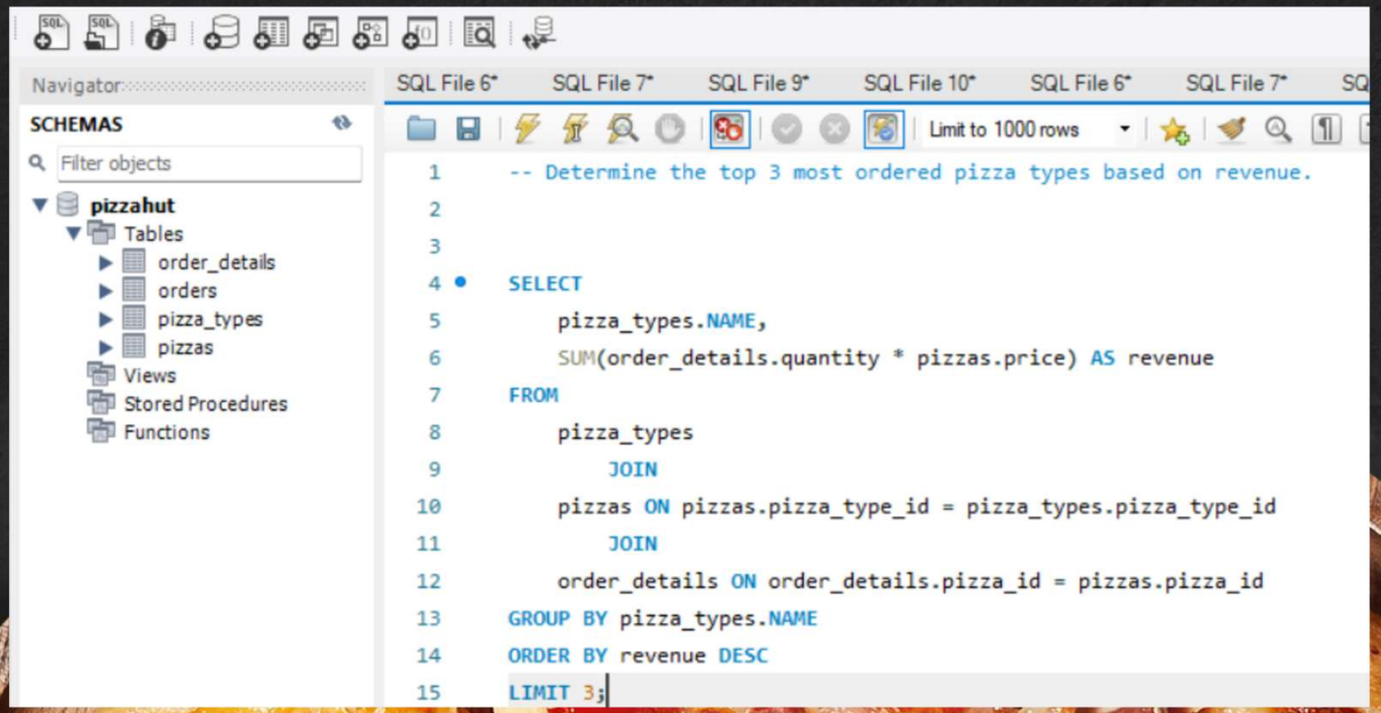
Result Grid | Filter Rows:

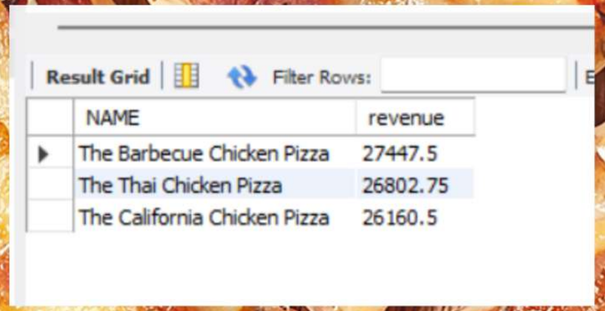
category	COUNT(NAME)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

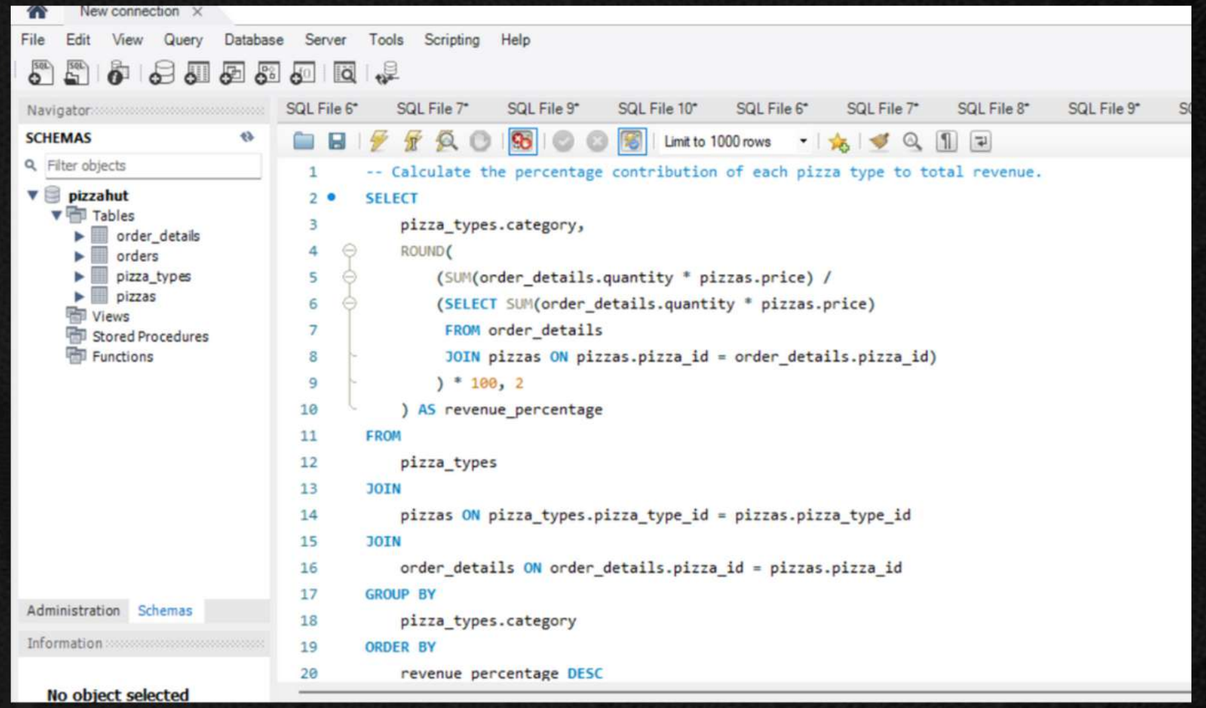


10.DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.





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



Result Grid | Filter Rows:

category	revenue_percentage
Classic	26.73
Supreme	25.52
Veggie	23.92
Chicken	23.83

12.ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.

New connection

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- pizzahut
  - Tables
    - order_details
    - orders
    - pizza_types
    - pizzas
  - Views
  - Stored Procedures
  - Functions

SQL File 6* SQL File 7* SQL File 9* SQL File 10* SQL File 6* SQL File 7* SQL File 8* SQL File 9* SQL File 10*

Limit to 1000 rows

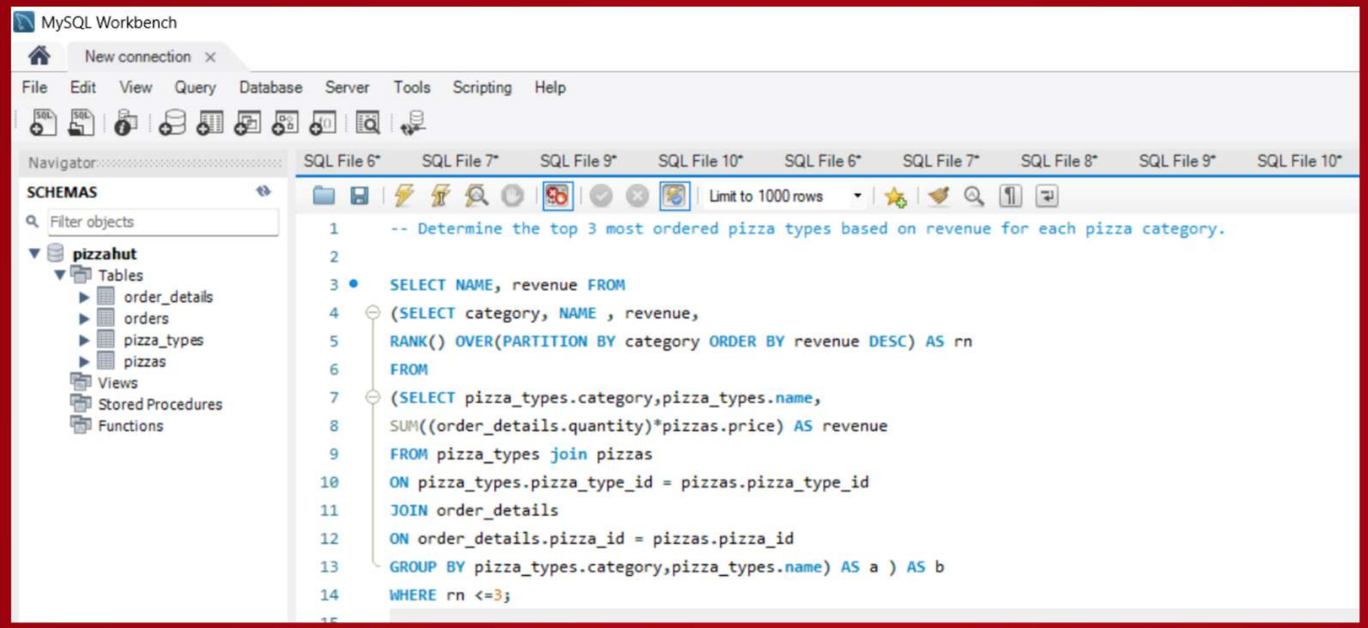
```sql
-- Analyze the cumulative revenue generated over time.
SELECT order_date,
SUM(revenue) OVER(ORDER BY order_date) AS cum_revenue
FROM
(SELECT orders.order_date,
SUM(order_details.quantity * pizzas.price) AS revenue
FROM  order_details JOIN pizzas
ON order_details.pizza_id = pizzas.pizza_id
JOIN orders
ON orders.order_id = order_details.order_id
GROUP BY orders.order_date) AS sales;
```

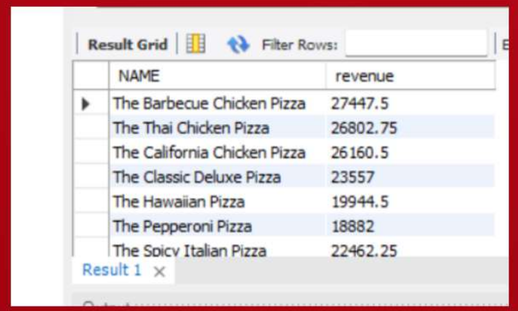
Result Grid | Filter Rows:

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	23990.350000000002
2015-01-11	25862.65
2015-01-12	27781.7
2015-01-13	29831.300000000003
2015-01-14	32358.700000000004
2015-01-15	34343.50000000001
2015-01-16	36937.65000000001

Result 1

13. DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE FOR EACH PIZZA CATEGORY.





THANKS

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