Where Every Slice is a Taste of Perfection

PIZZA SALES

SQL PROJECT

PROJECT

ABOUT MY PROJECT

PIZZA SALES PROJECT

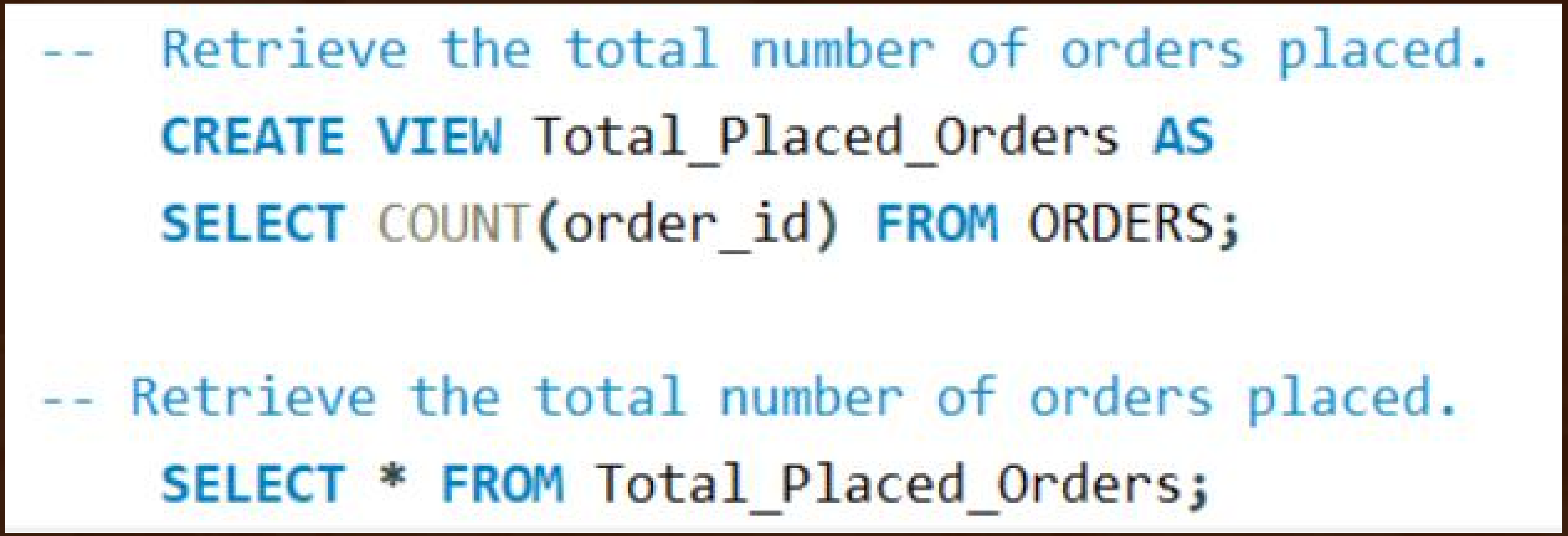
I'm Chandan Patel, and this is my Pizza Sales Analysis project using SQL. The database includes four main tables: orders, order_details, pizzas, and pizza_types. I used SQL to analyze sales data and answer real business questions like:

- Which pizzas sell the most? What are the
- peak order times? Which sizes and
- categories perform best?

This project helped me strengthen my skills in data analysis, joins, aggregations, and reporting using SQL for real-world use cases.

QUESTION 1

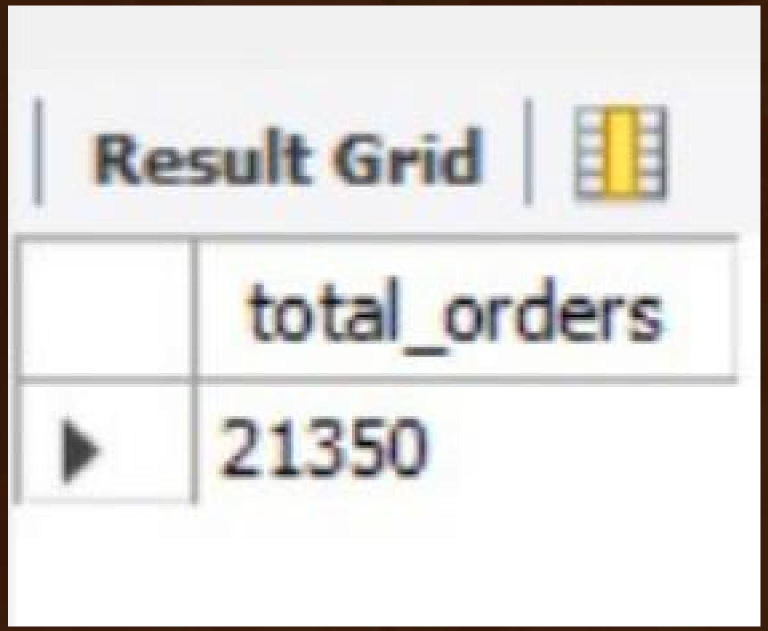
RETRIVE THE TOTAL NUMBER OF ORDER PLACED



```
--  Retrieve the total number of orders placed.
    CREATE VIEW Total_Placed_Orders AS
    SELECT COUNT(order_id) FROM ORDERS;

-- Retrieve the total number of orders placed.
    SELECT * FROM Total_Placed_Orders;
```

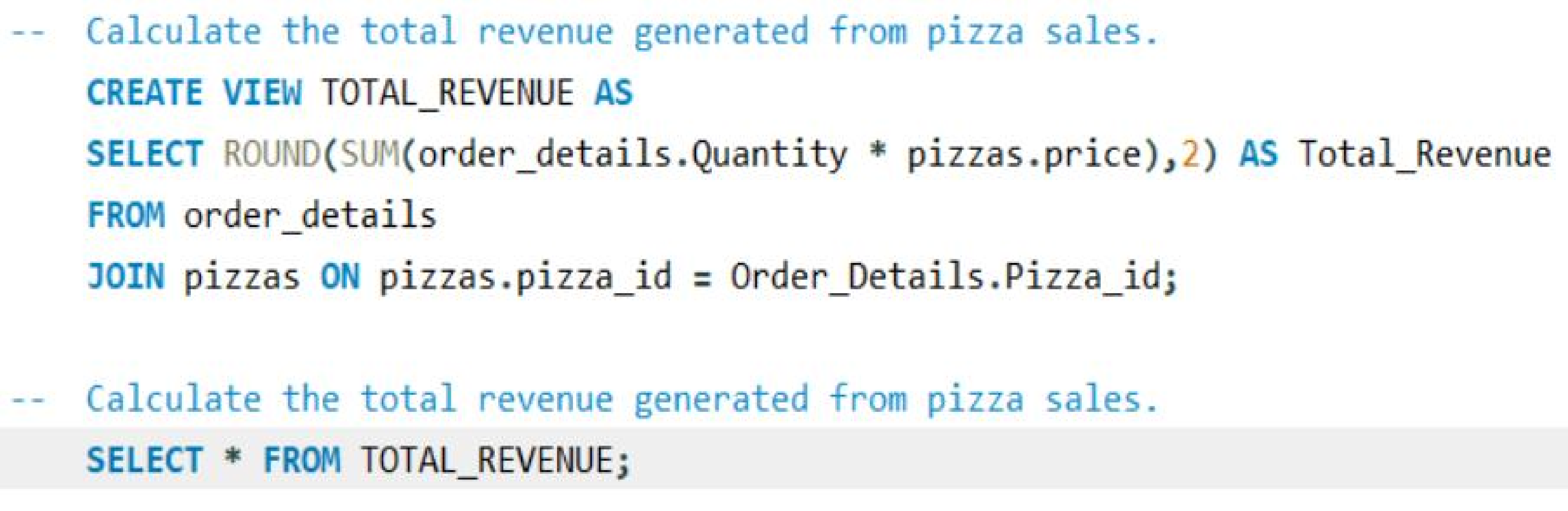
Result



	total_orders
▶	21350

QUESTION 2

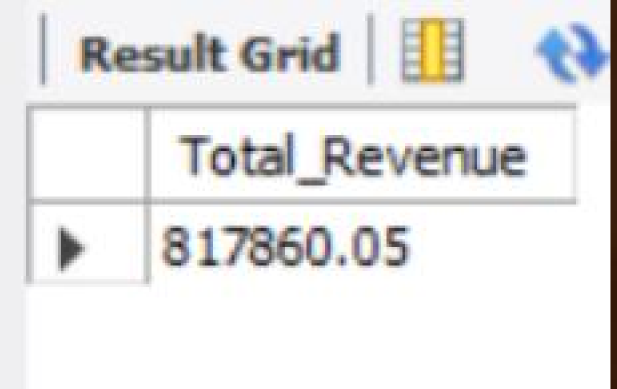
CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES



```
--  Calculate the total revenue generated from pizza sales.
    CREATE VIEW TOTAL_REVENUE AS
    SELECT ROUND(SUM(order_details.Quantity * pizzas.price),2) AS Total_Revenue
    FROM order_details
    JOIN pizzas ON pizzas.pizza_id = Order_Details.Pizza_id;

--  Calculate the total revenue generated from pizza sales.
    SELECT * FROM TOTAL_REVENUE;
```

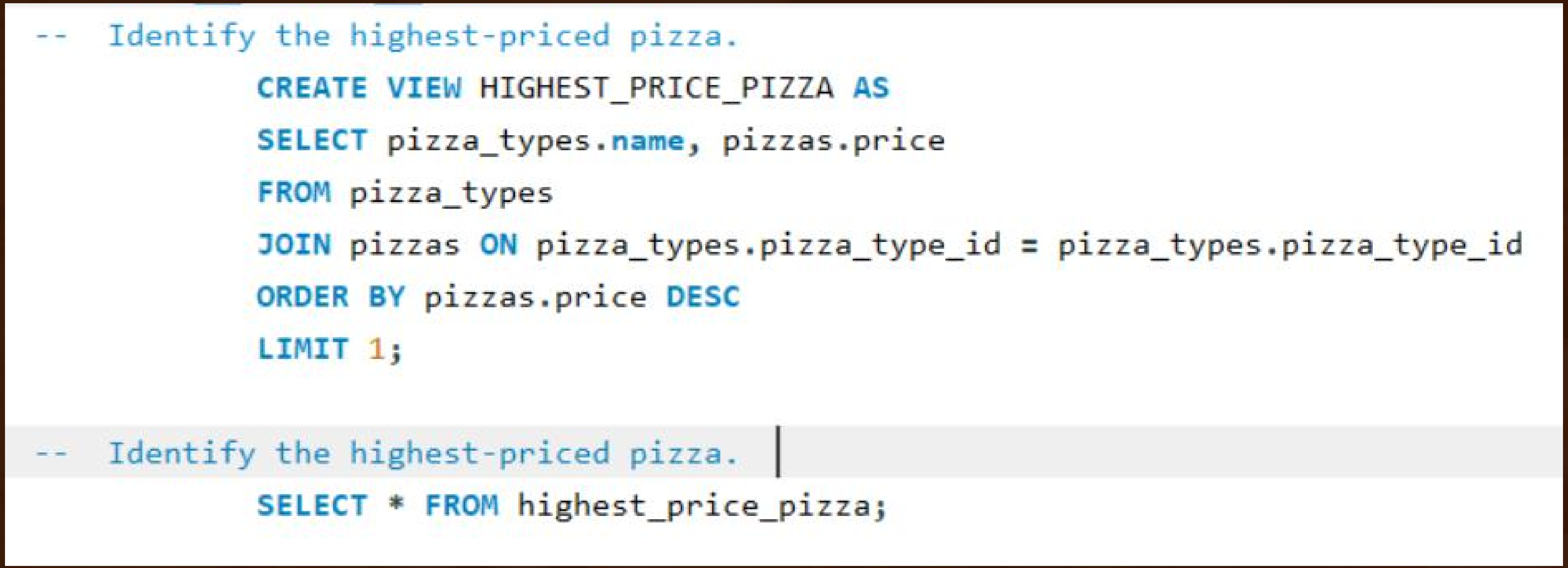
Result



	Total_Revenue
▶	817860.05

QUESTION 3

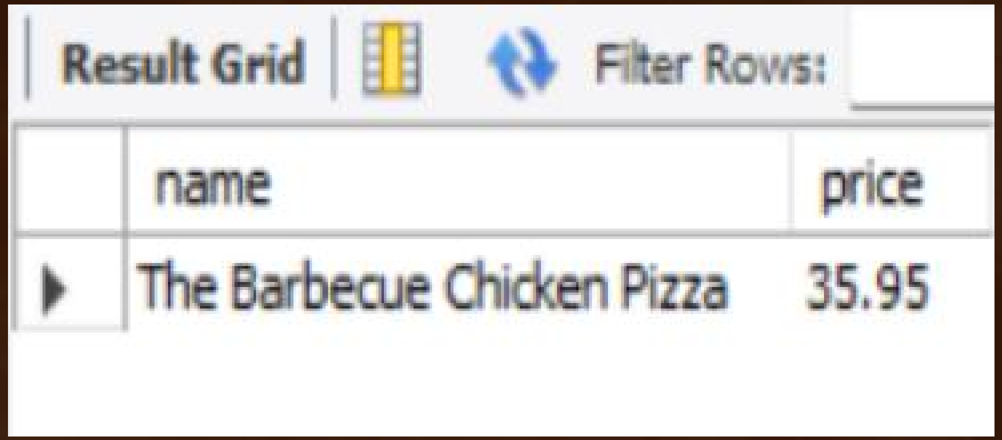
IDENTIFY THE HIGHEST-PRICED PIZZA



```
--  Identify the highest-priced pizza.
        CREATE VIEW HIGHEST_PRICE_PIZZA AS
        SELECT pizza_types.name, pizzas.price
        FROM pizza_types
        JOIN pizzas ON pizza_types.pizza_type_id = pizza_types.pizza_type_id
        ORDER BY pizzas.price DESC
        LIMIT 1;

--  Identify the highest-priced pizza.
        SELECT * FROM highest_price_pizza;
```

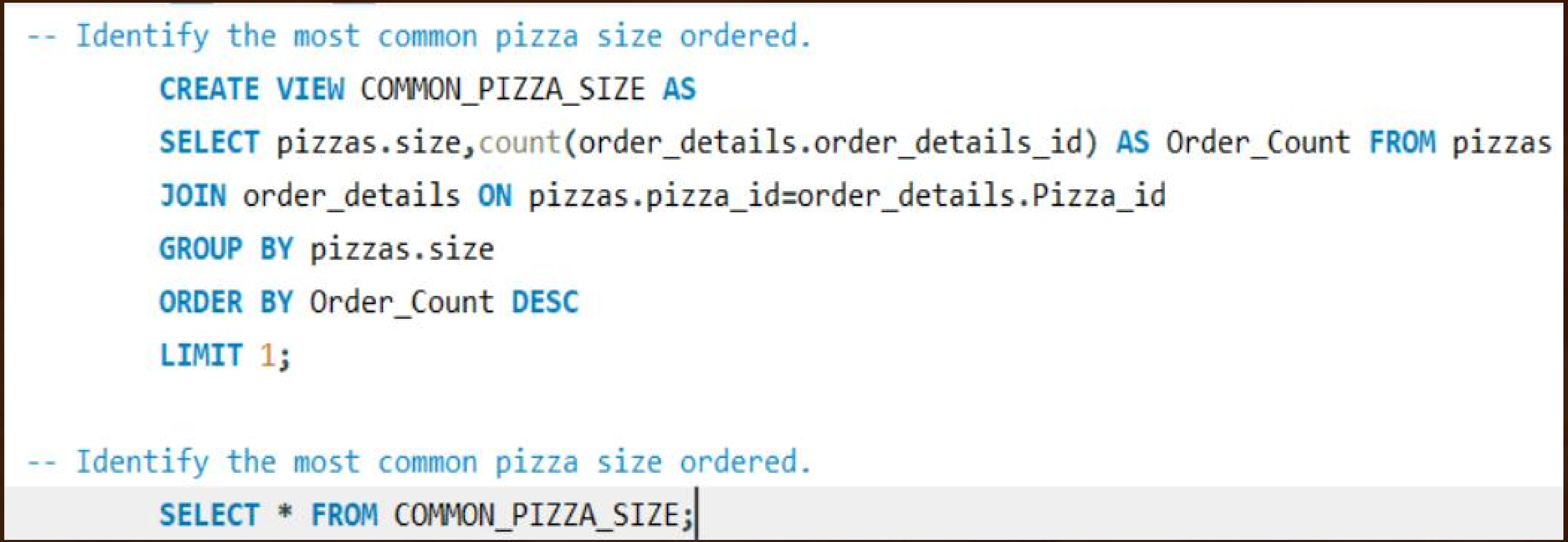
Result



name	price
The Barbecue Chicken Pizza	35.95

QUESTION 4

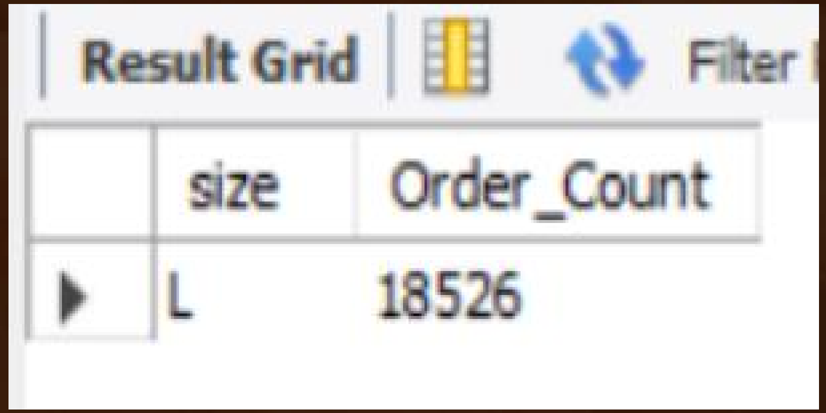
IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED



```
-- Identify the most common pizza size ordered.
        CREATE VIEW COMMON_PIZZA_SIZE AS
        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 1;

-- Identify the most common pizza size ordered.
        SELECT * FROM COMMON_PIZZA_SIZE;
```

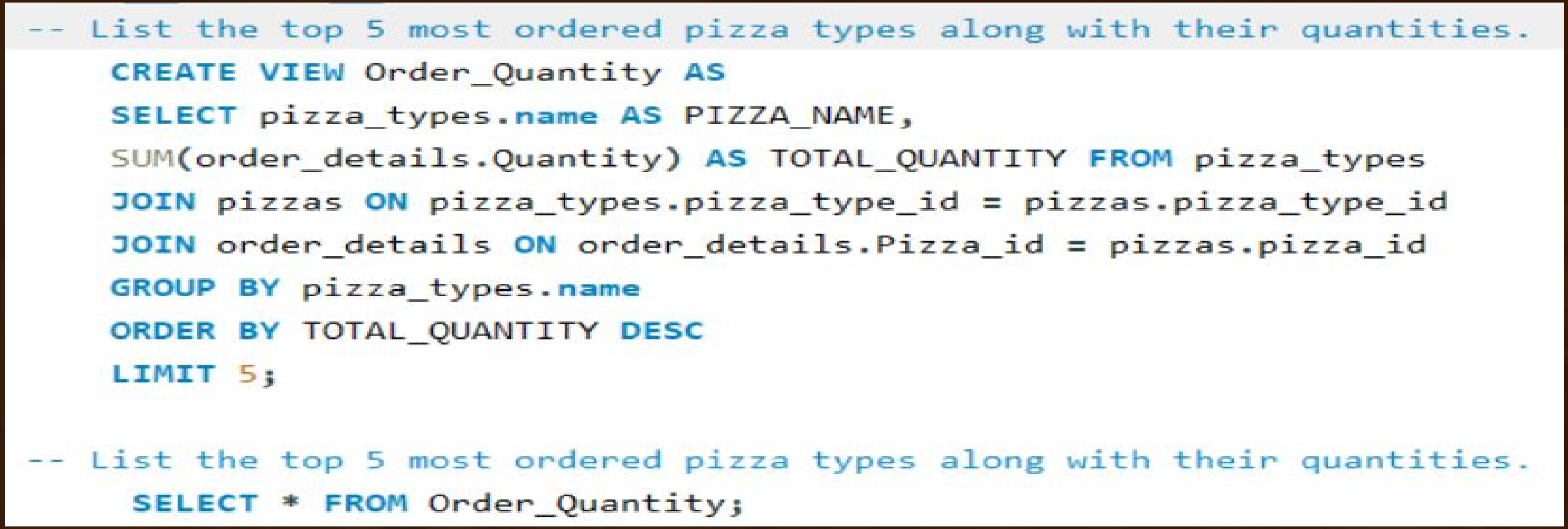
Result



size	Order_Count
L	18526

QUESTION 5

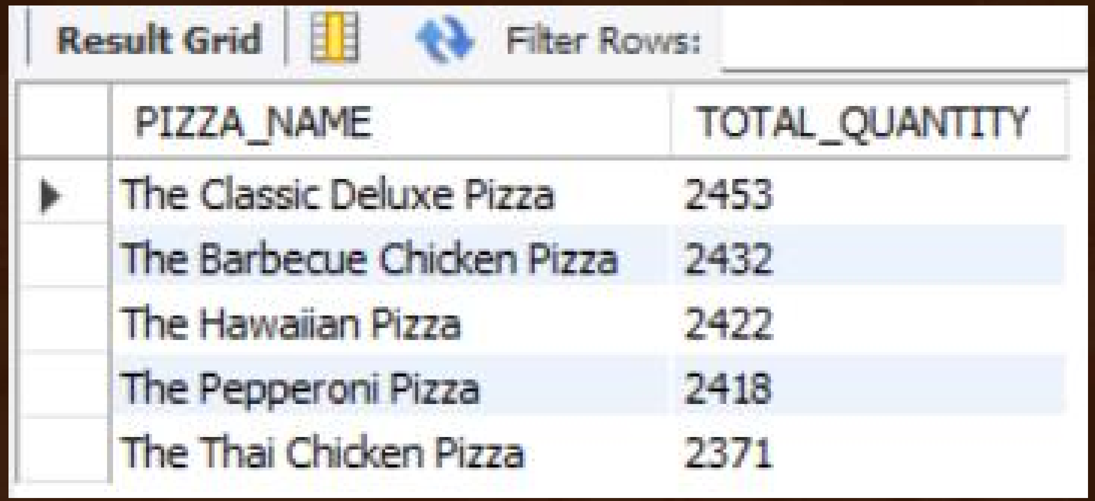
LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES



```
-- List the top 5 most ordered pizza types along with their quantities.
    CREATE VIEW Order_Quantity AS
    SELECT pizza_types.name AS PIZZA_NAME,
    SUM(order_details.Quantity) AS TOTAL_QUANTITY FROM pizza_types
    JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
    JOIN order_details ON order_details.Pizza_id = pizzas.pizza_id
    GROUP BY pizza_types.name
    ORDER BY TOTAL_QUANTITY DESC
    LIMIT 5;

-- List the top 5 most ordered pizza types along with their quantities.
     SELECT * FROM Order_Quantity;
```

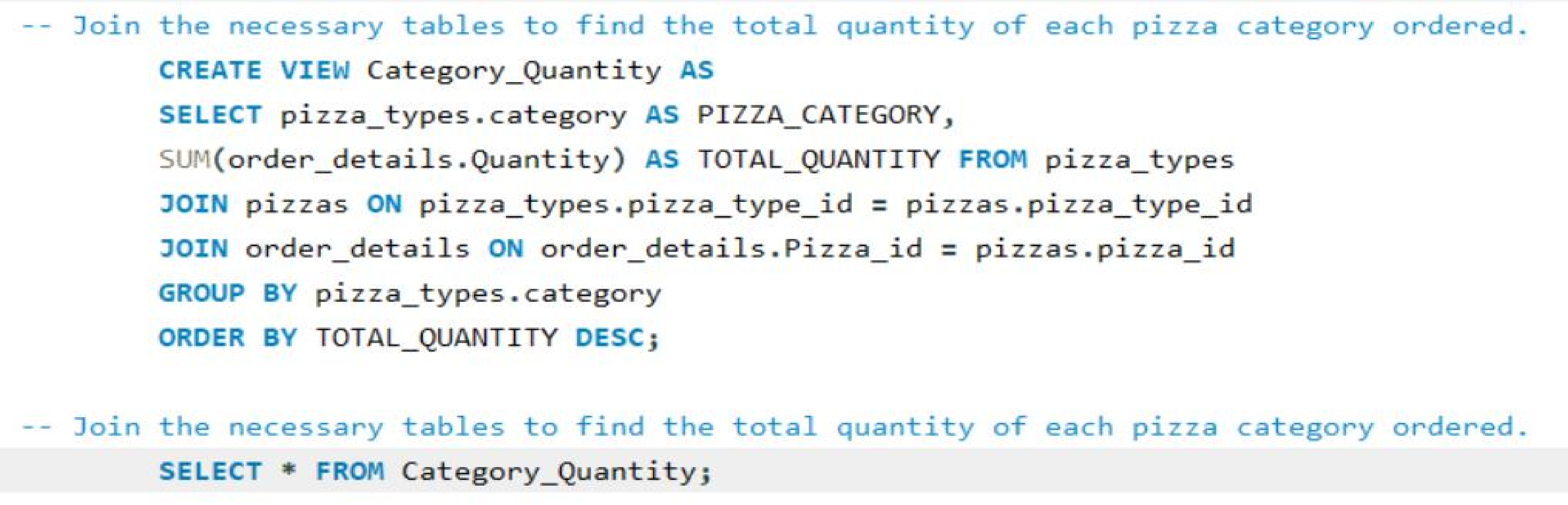
Result



PIZZA_NAME	TOTAL_QUANTITY
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

QUESTION 6

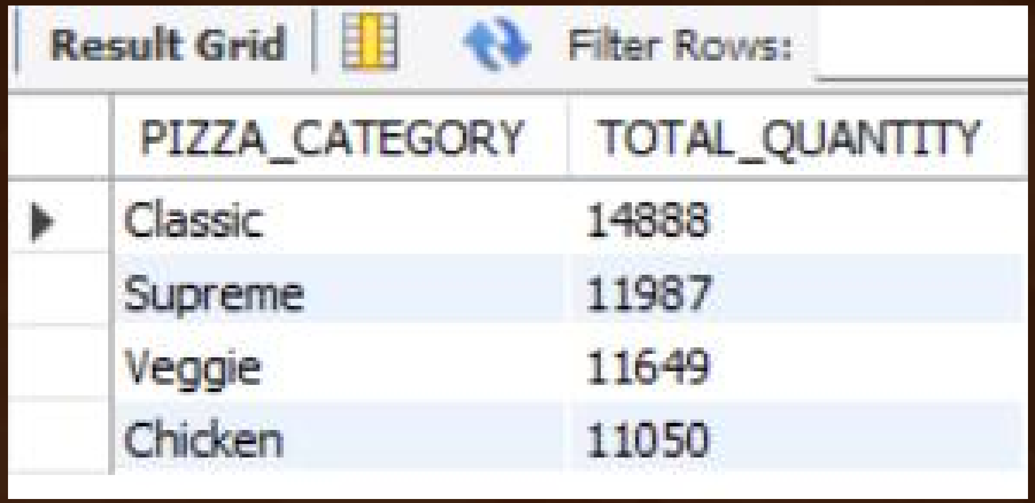
JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED



```
-- Join the necessary tables to find the total quantity of each pizza category ordered.
        CREATE VIEW Category_Quantity AS
        SELECT pizza_types.category AS PIZZA_CATEGORY,
        SUM(order_details.Quantity) AS TOTAL_QUANTITY FROM pizza_types
        JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN order_details ON order_details.Pizza_id = pizzas.pizza_id
        GROUP BY pizza_types.category
        ORDER BY TOTAL_QUANTITY DESC;

-- Join the necessary tables to find the total quantity of each pizza category ordered.
        SELECT * FROM Category_Quantity;
```

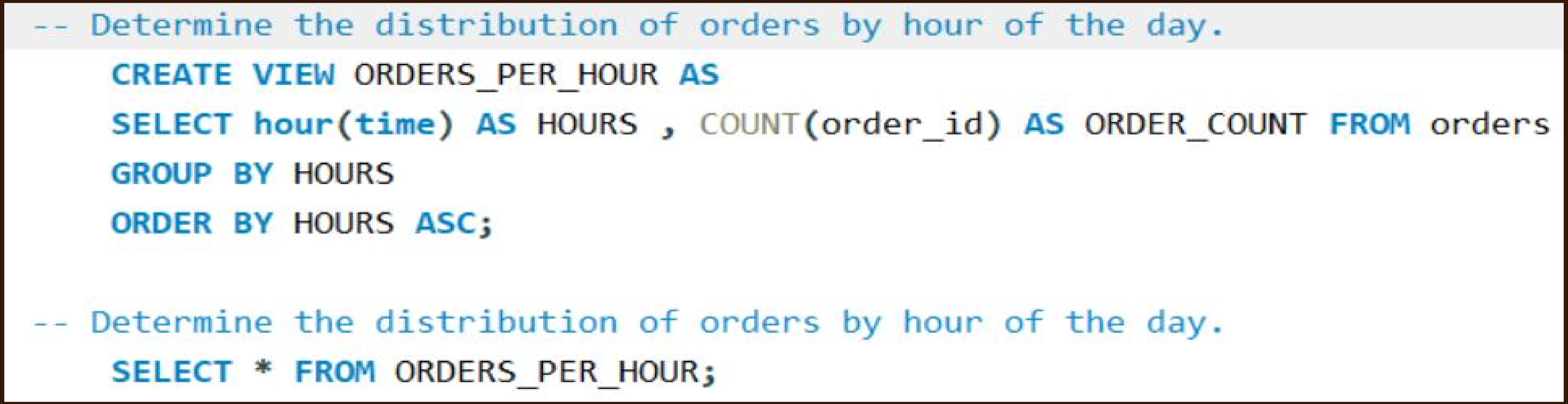
Result



PIZZA_CATEGORY	TOTAL_QUANTITY
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

QUESTION 7

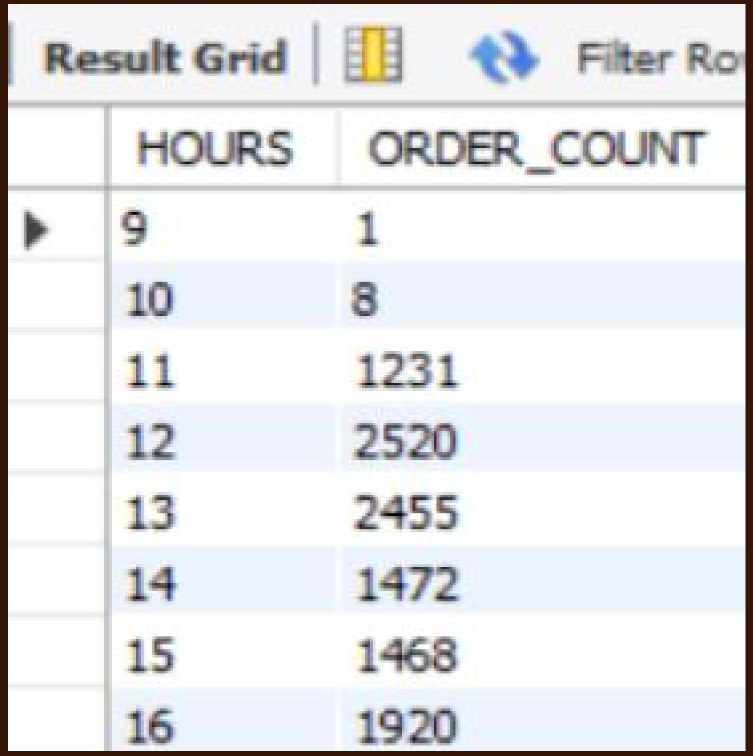
DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY



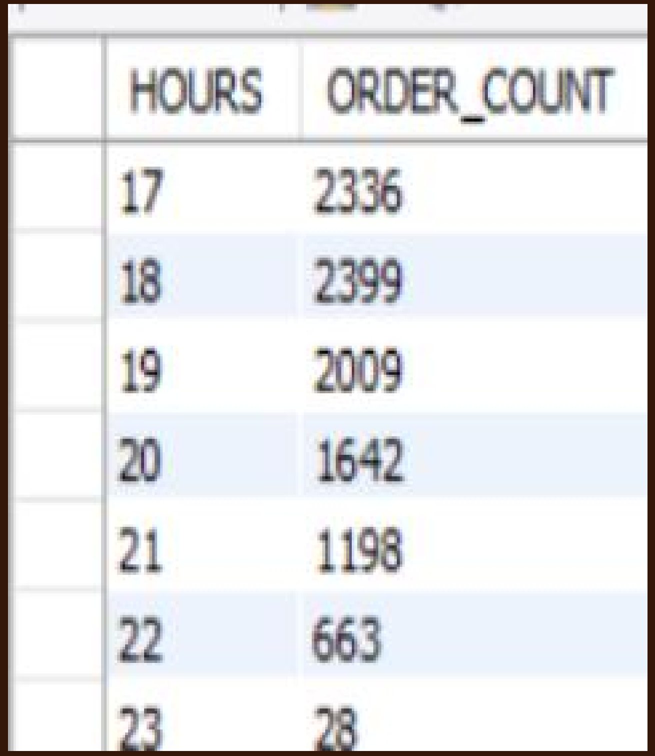
```
-- Determine the distribution of orders by hour of the day.
    CREATE VIEW ORDERS_PER_HOUR AS
    SELECT hour(time) AS HOURS , COUNT(order_id) AS ORDER_COUNT FROM orders
    GROUP BY HOURS
    ORDER BY HOURS ASC;

-- Determine the distribution of orders by hour of the day.
    SELECT * FROM ORDERS_PER_HOUR;
```

Result



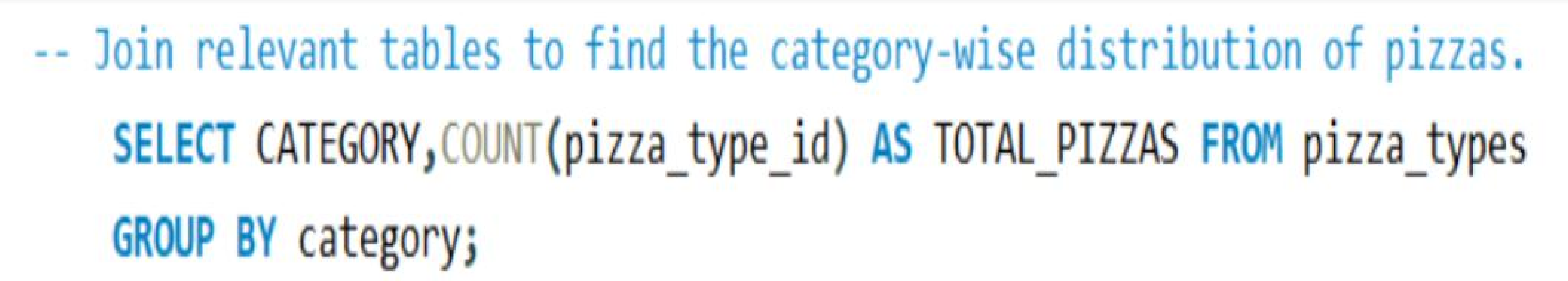
HOURS	ORDER_COUNT
9	1
10	8
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920



HOURS	ORDER_COUNT
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28

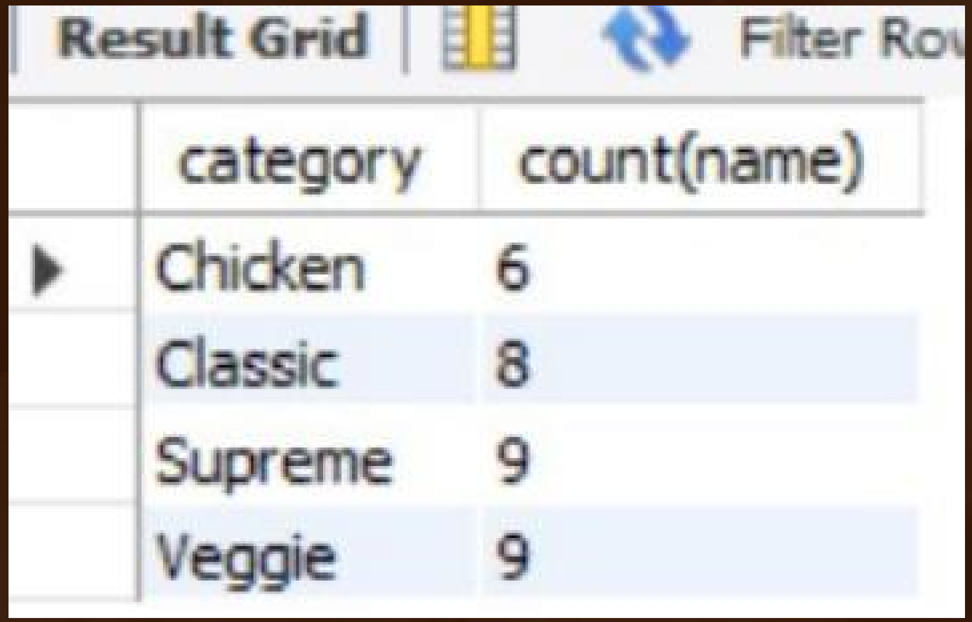
QUESTION 8

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



```
-- Join relevant tables to find the category-wise distribution of pizzas.
    SELECT CATEGORY,COUNT(pizza_type_id) AS TOTAL_PIZZAS FROM pizza_types
    GROUP BY category;
```

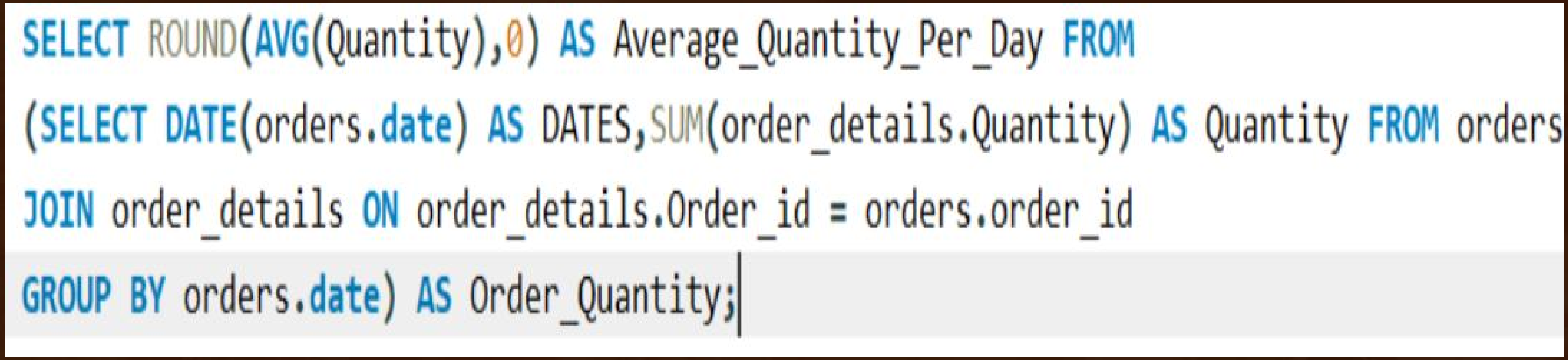
Result



category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

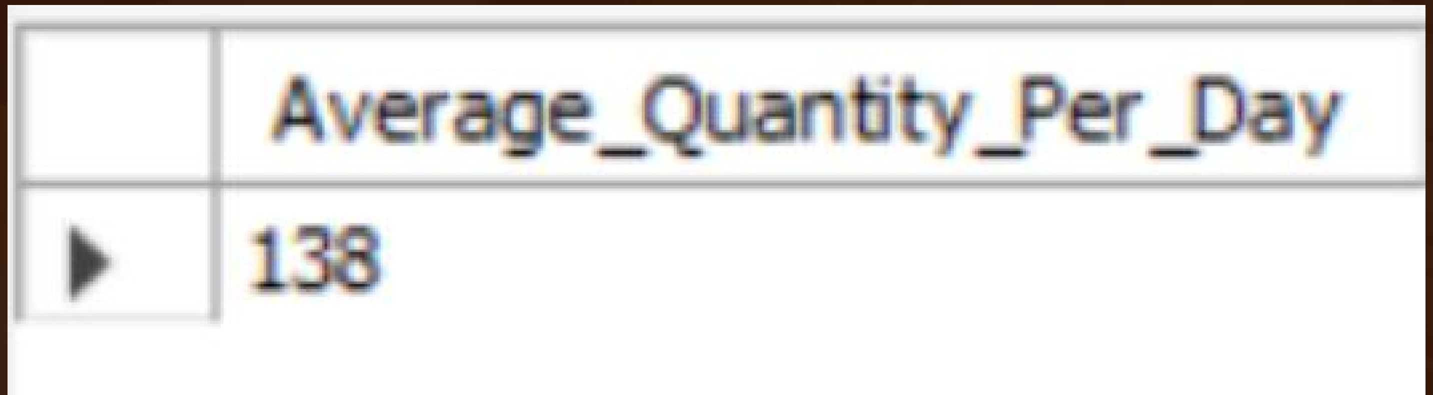
QUESTION 9

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



```
SELECT ROUND(AVG(Quantity),0) AS Average_Quantity_Per_Day FROM
(SELECT DATE(orders.date) AS DATES,SUM(order_details.Quantity) AS Quantity FROM orders
JOIN order_details ON order_details.Order_id = orders.order_id
GROUP BY orders.date) AS Order_Quantity;
```

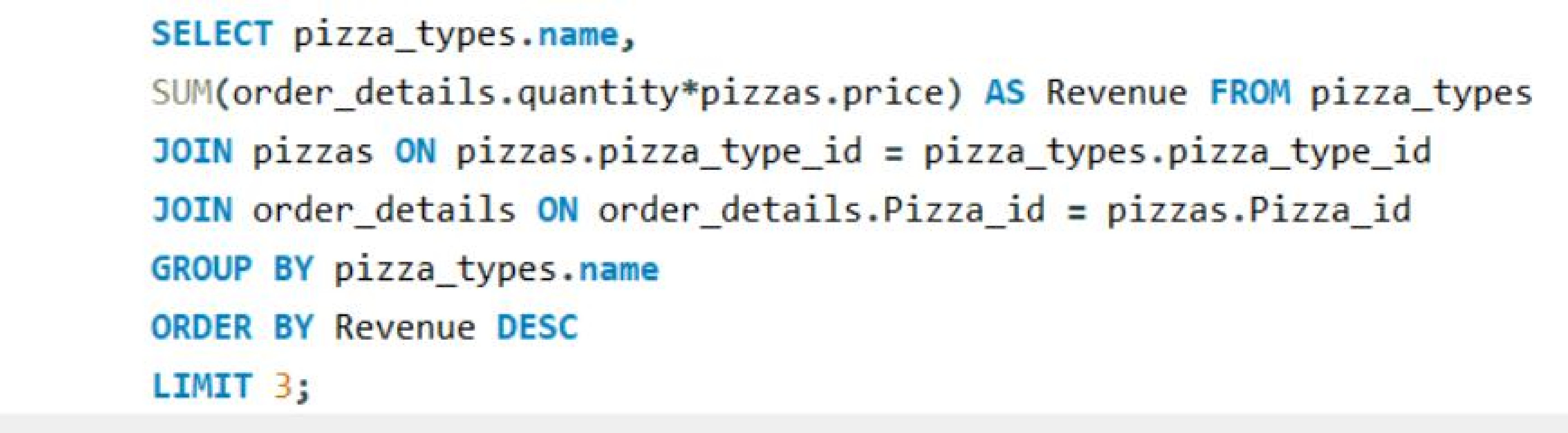
Result



	Average_Quantity_Per_Day
▶	138

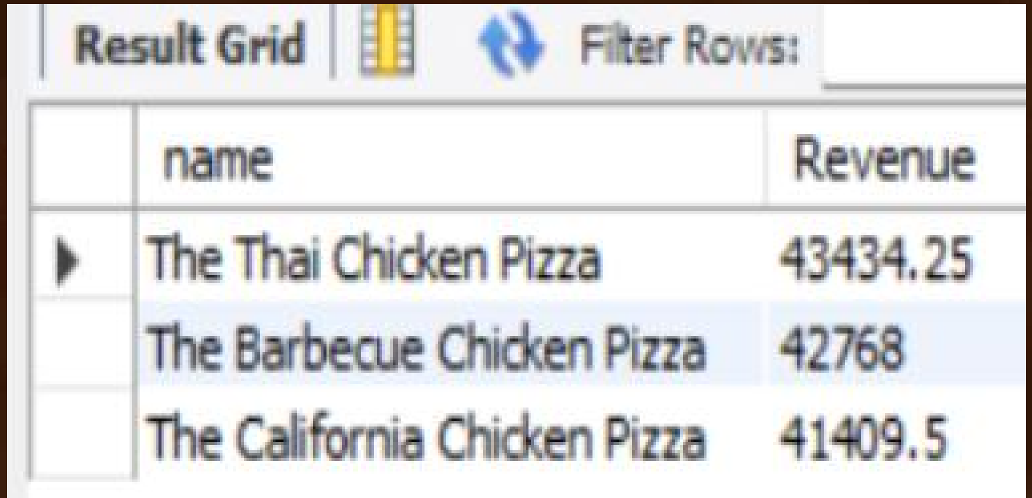
QUESTION 10

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



```
SELECT pizza_types.name,
SUM(order_details.quantity*pizzas.price) AS Revenue FROM pizza_types
JOIN pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
JOIN order_details ON order_details.Pizza_id = pizzas.Pizza_id
GROUP BY pizza_types.name
ORDER BY Revenue DESC
LIMIT 3;
```

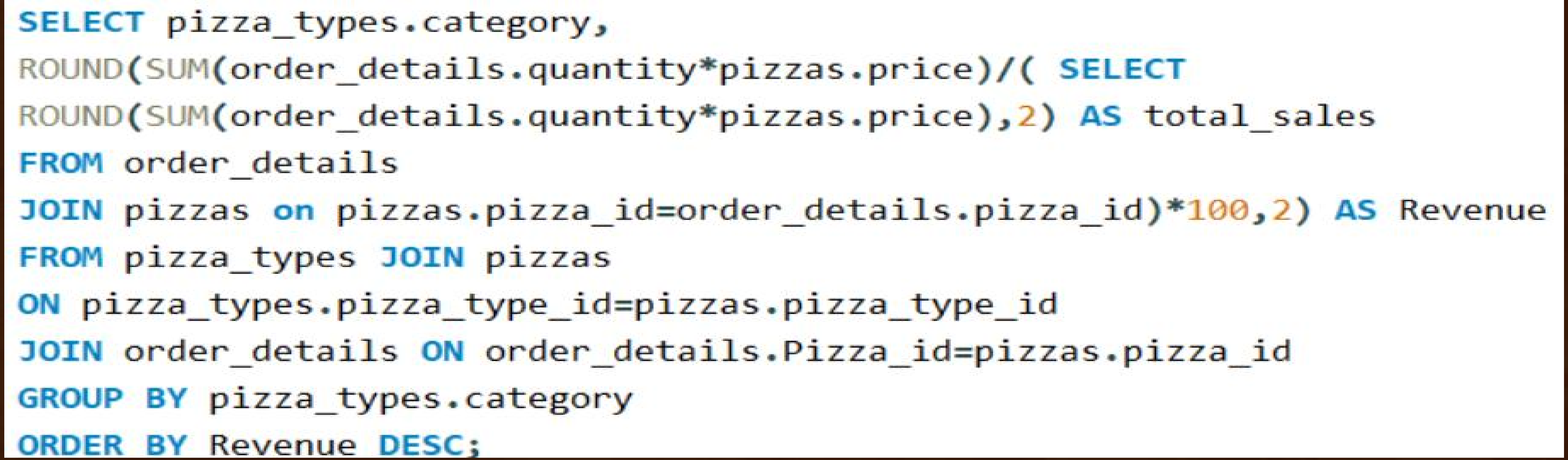
Result



name	Revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

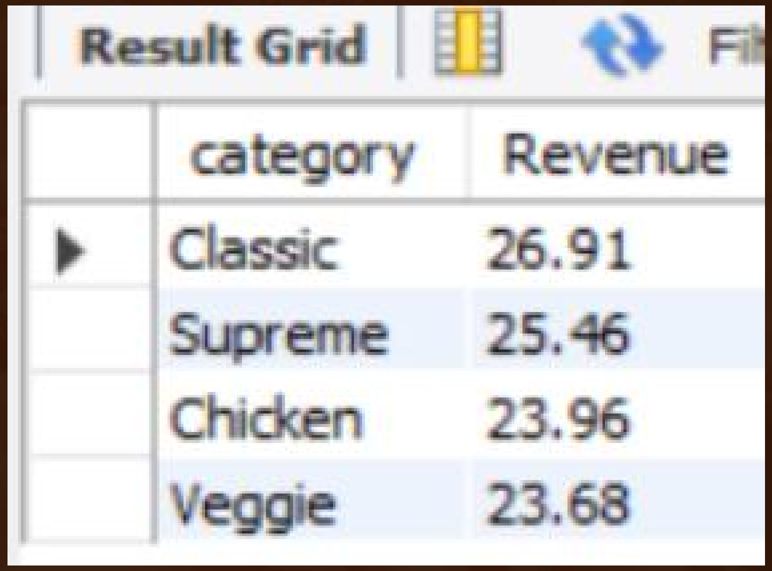
QUESTION 11

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE



```
SELECT pizza_types.category,
ROUND(SUM(order_details.quantity*pizzas.price)/( SELECT
ROUND(SUM(order_details.quantity*pizzas.price),2) AS total_sales
FROM order_details
JOIN pizzas on pizzas.pizza_id=order_details.pizza_id)*100,2) AS Revenue
FROM pizza_types JOIN pizzas
ON pizza_types.pizza_type_id=pizzas.pizza_type_id
JOIN order_details ON order_details.Pizza_id=pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY Revenue DESC;
```

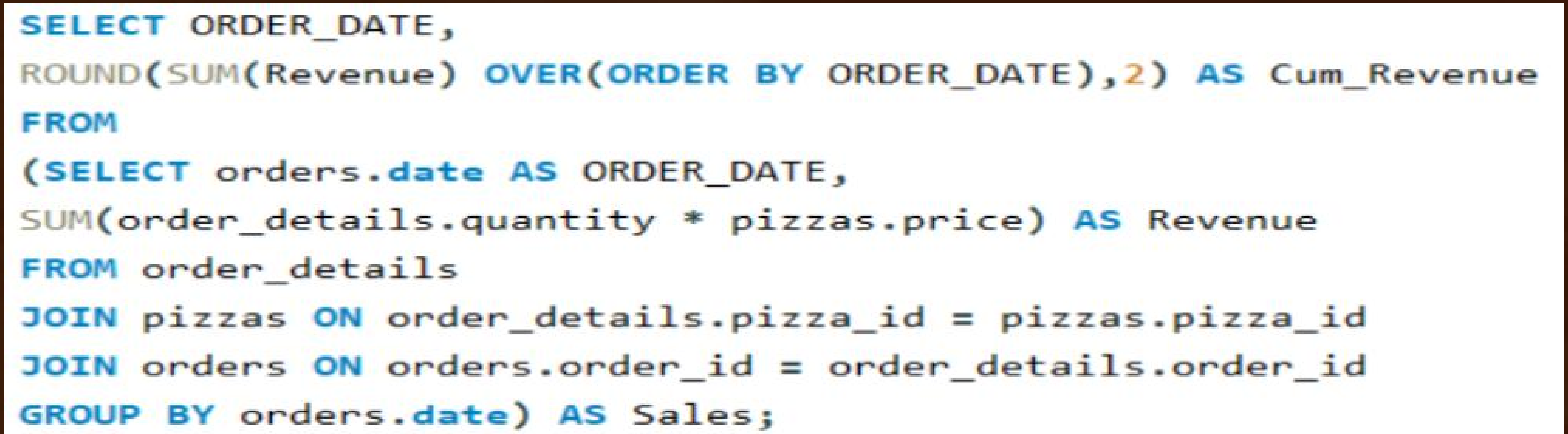
Result



category	Revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

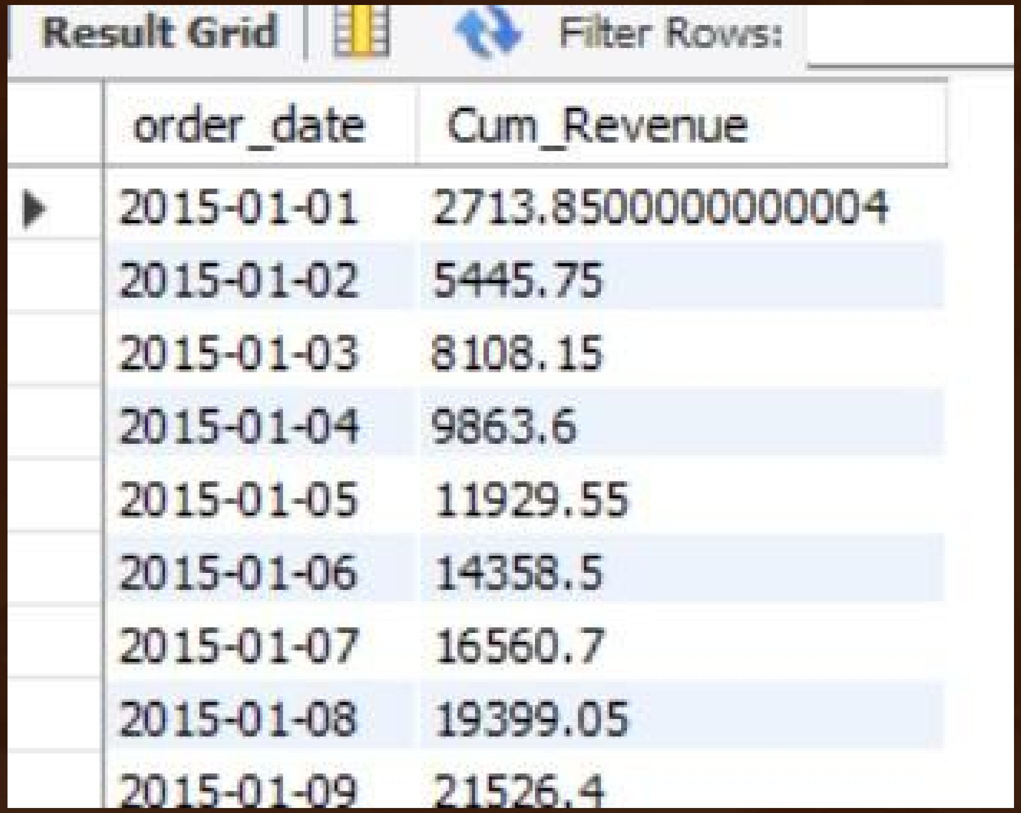
QUESTION 12

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



```sql
SELECT ORDER_DATE,
ROUND(SUM(Revenue) OVER(ORDER BY ORDER_DATE),2) AS Cum_Revenue
FROM
(SELECT orders.date AS 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.date) AS Sales;
```

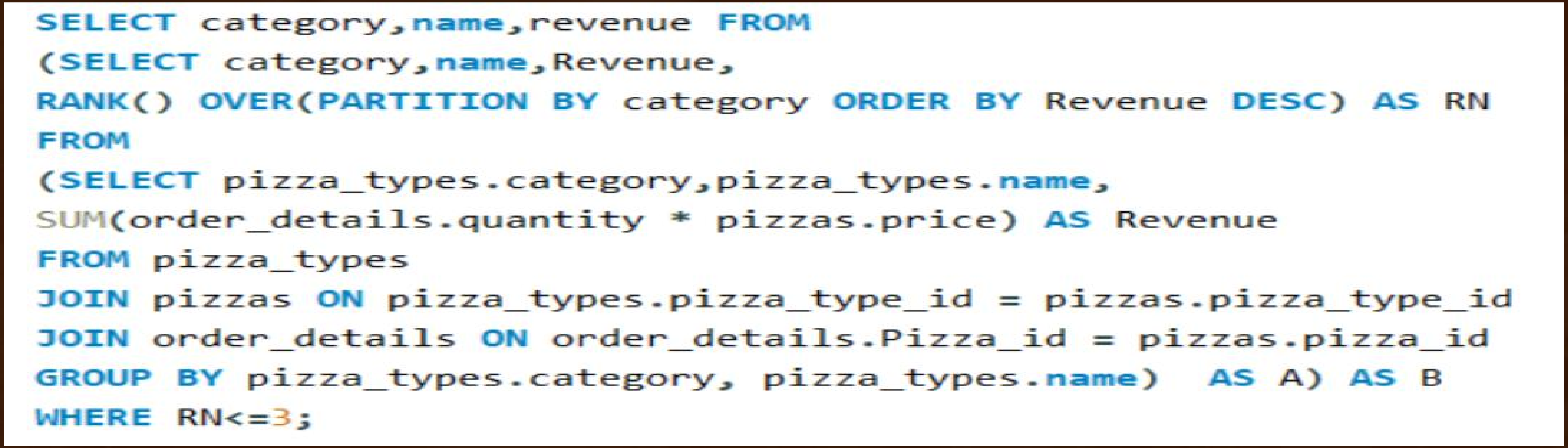
Result



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

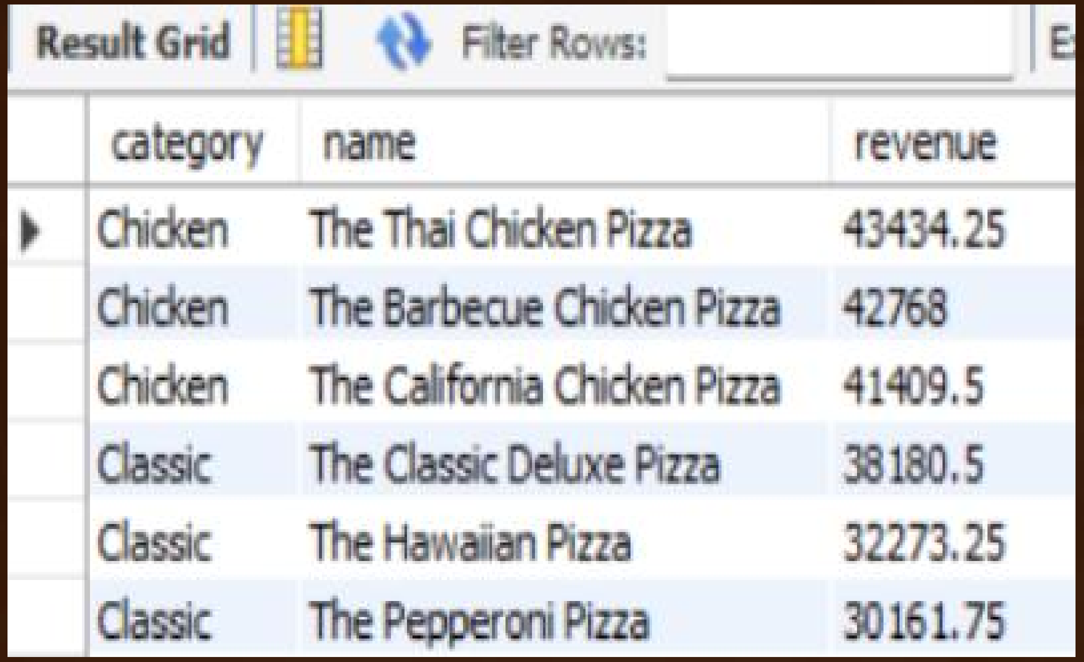
QUESTION 13

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

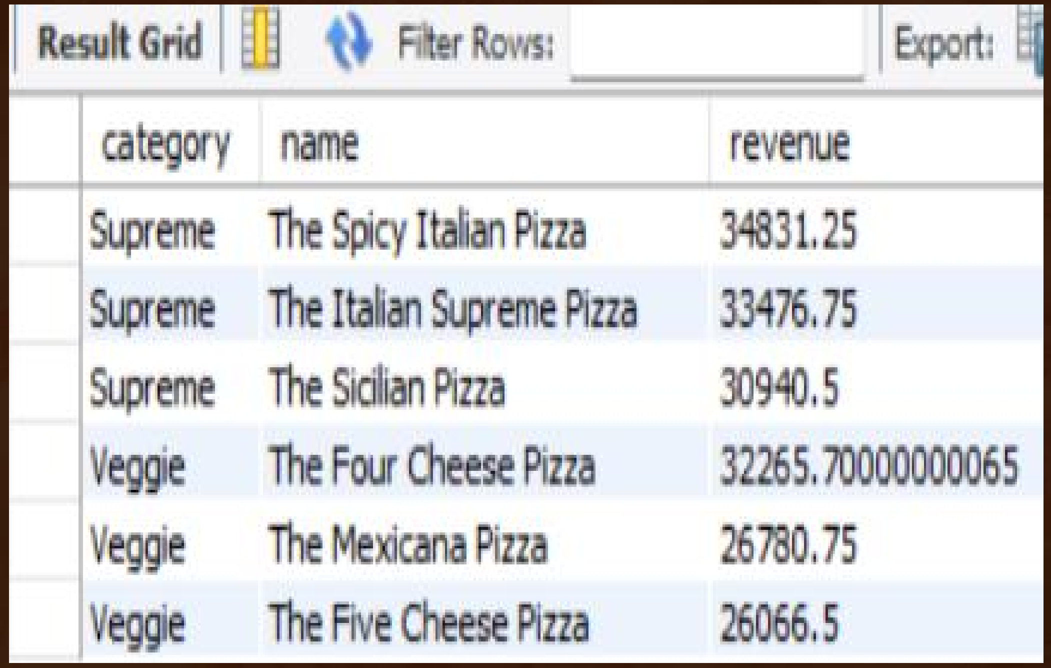


```
SELECT category,name,revenue FROM
(SELECT category,name,Revenue,
RANK() OVER(PARTITION BY category ORDER BY Revenue DESC) AS RN
FROM
(SELECT pizza_types.category,pizza_types.name,
SUM(order_details.quantity * pizzas.price) AS Revenue
FROM pizza_types
JOIN pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
JOIN order_details ON order_details.Pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category, pizza_types.name)  AS A) AS B
WHERE RN<=3;
```

Result



category	name	revenue
Chicken	The Thai Chicken Pizza	43434.25
Chicken	The Barbecue Chicken Pizza	42768
Chicken	The California Chicken Pizza	41409.5
Classic	The Classic Deluxe Pizza	38180.5
Classic	The Hawaiian Pizza	32273.25
Classic	The Pepperoni Pizza	30161.75



category	name	revenue
Supreme	The Spicy Italian Pizza	34831.25
Supreme	The Italian Supreme Pizza	33476.75
Supreme	The Sicilian Pizza	30940.5
Veggie	The Four Cheese Pizza	32265.70000000065
Veggie	The Mexicana Pizza	26780.75
Veggie	The Five Cheese Pizza	26066.5

PIZZA SALES

THANK YOU FOR ATTENTION

SQL PROJECT