SQL PIZZA
SALES PROJECT

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HELLO

Our Passion for Pizza

This is Harshith Podduturi of sreenidhiy institute of science and technology .This is a project on pizza sales

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.

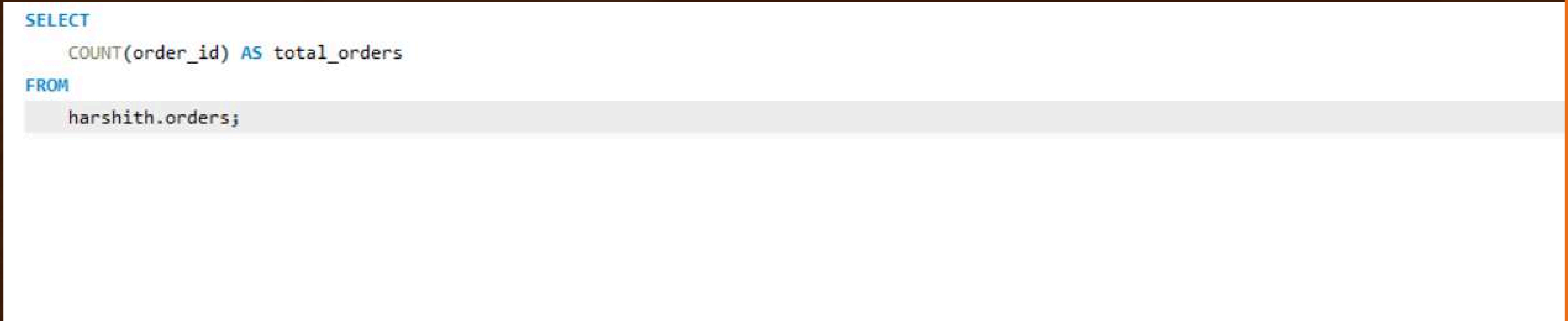
Intermediate:

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:

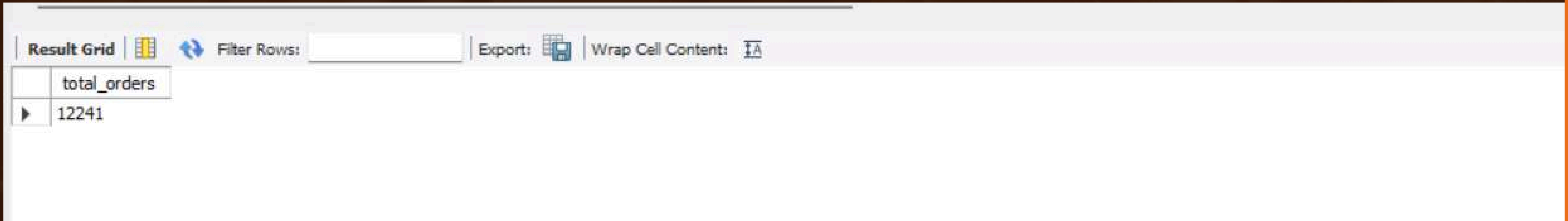
Calculate the percentage contribution of each pizza type to total revenue.
Analyze the cumulative revenue generated over time.
Determine the top 3 most ordered pizza types based on revenue for each pizza category.

Retrieve the total number of orders placed.



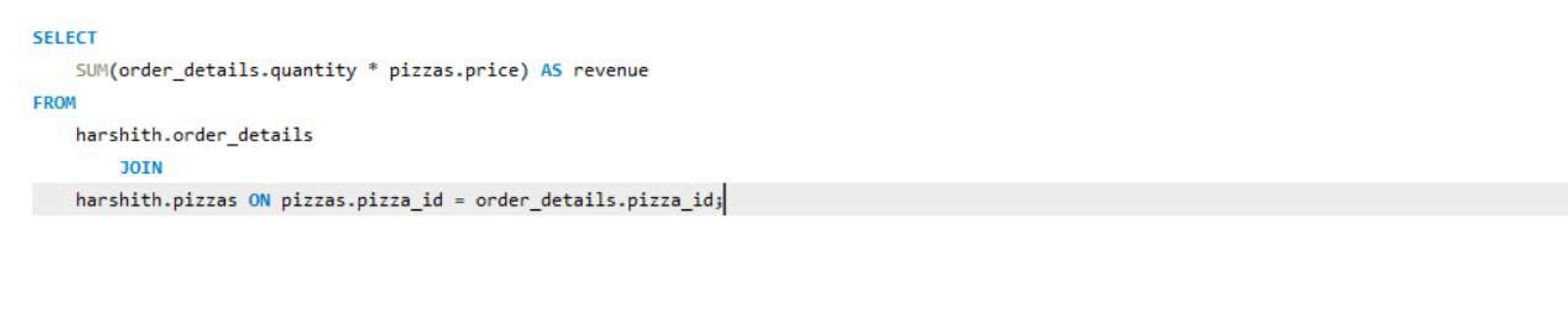
```sql
SELECT
    COUNT(order_id) AS total_orders
FROM
    harshith.orders;
```

Output:-



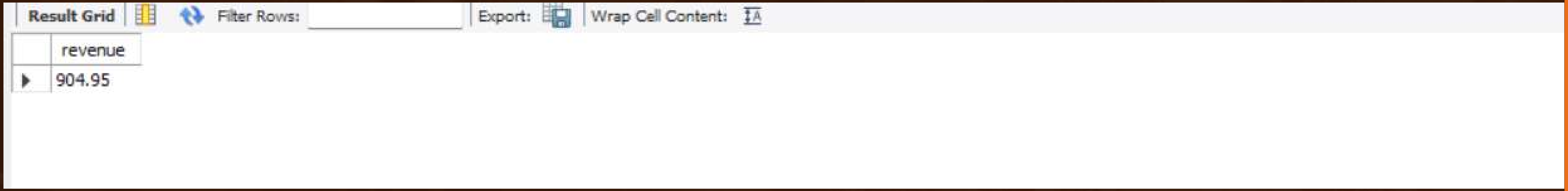
```
total_orders
12241
```

Calculate the total revenue generated from pizza sales.



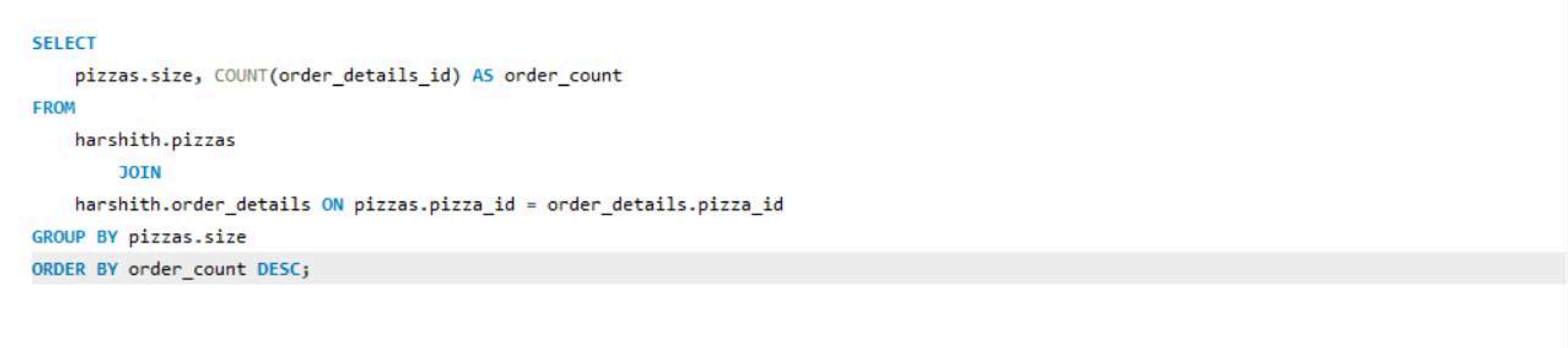
```
SELECT
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    harshith.order_details
        JOIN
    harshith.pizzas ON pizzas.pizza_id = order_details.pizza_id;
```

Output:-



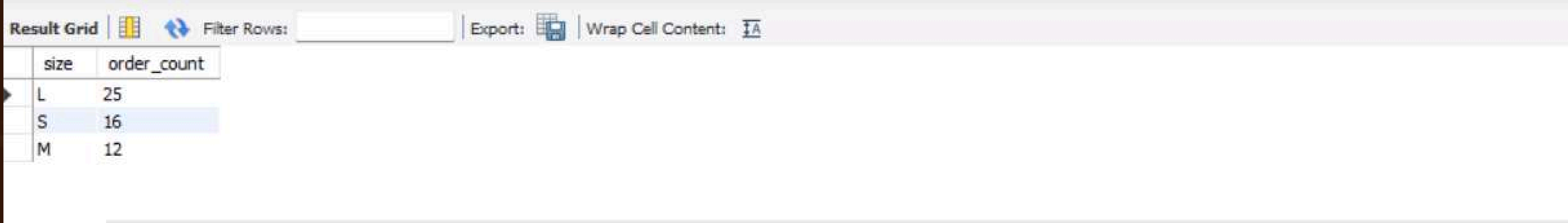
```
revenue
904.95
```

Identify the highest-priced pizza



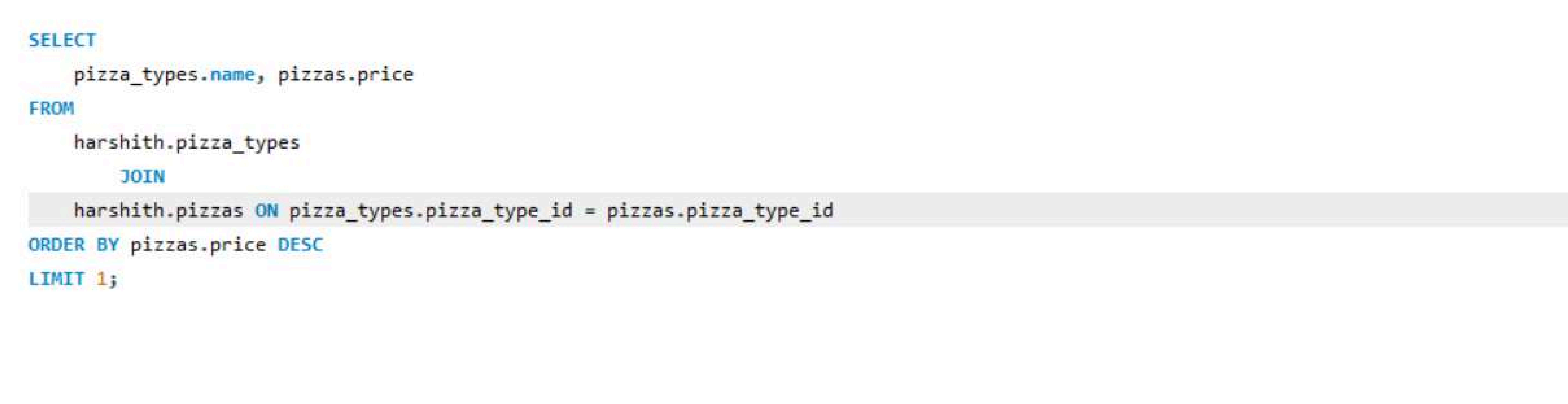
```
SELECT
    pizzas.size, COUNT(order_details_id) AS order_count
FROM
    harshith.pizzas
        JOIN
    harshith.order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY order_count DESC;
```

Output:-



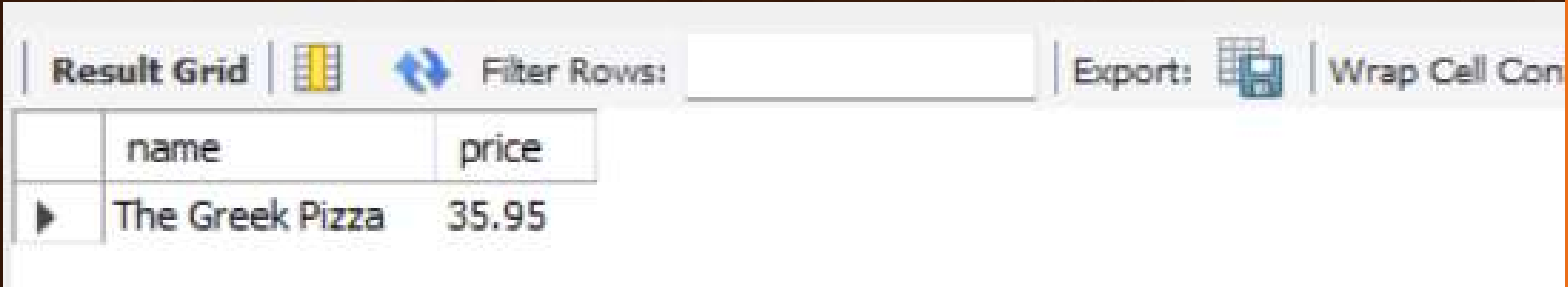
size	order_count
L	25
S	16
M	12

Identify the most common pizza size ordered.



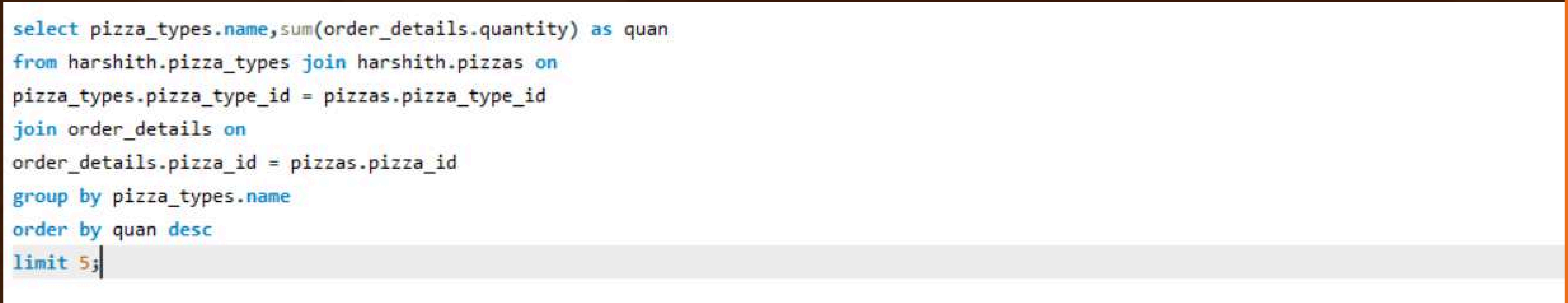
```
SELECT
    pizza_types.name, pizzas.price
FROM
    harshith.pizza_types
        JOIN
    harshith.pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

Output:-



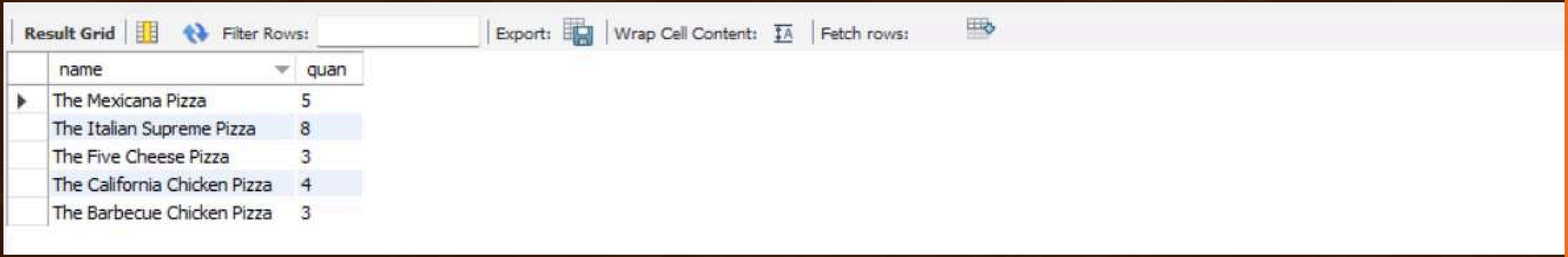
name	price
The Greek Pizza	35.95

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



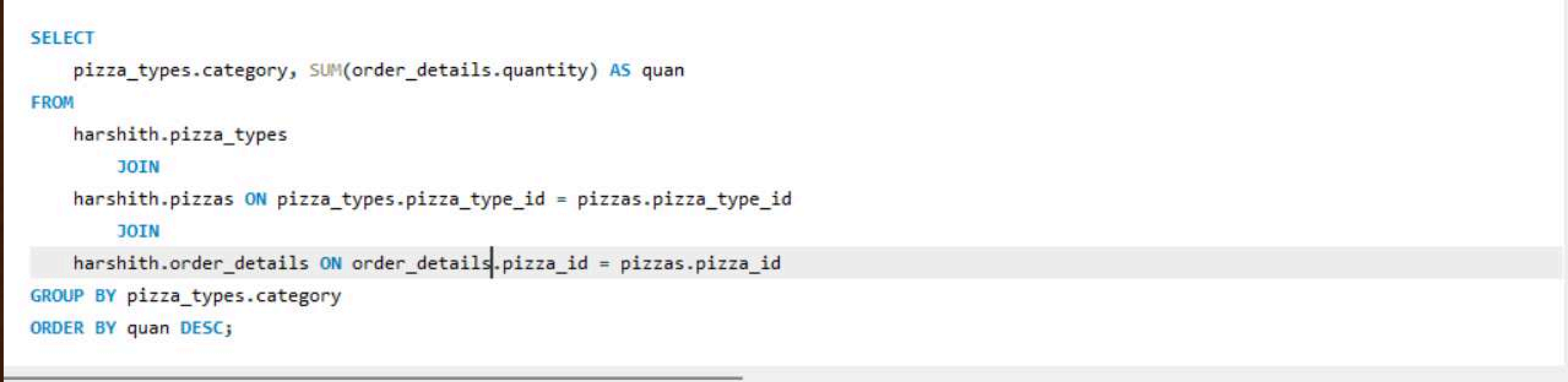
```
select pizza_types.name,sum(order_details.quantity) as quan
from harshith.pizza_types join harshith.pizzas on
pizza_types.pizza_type_id = pizzas.pizza_type_id
join order_details on
order_details.pizza_id = pizzas.pizza_id
group by pizza_types.name
order by quan desc
limit 5;
```

Output:-



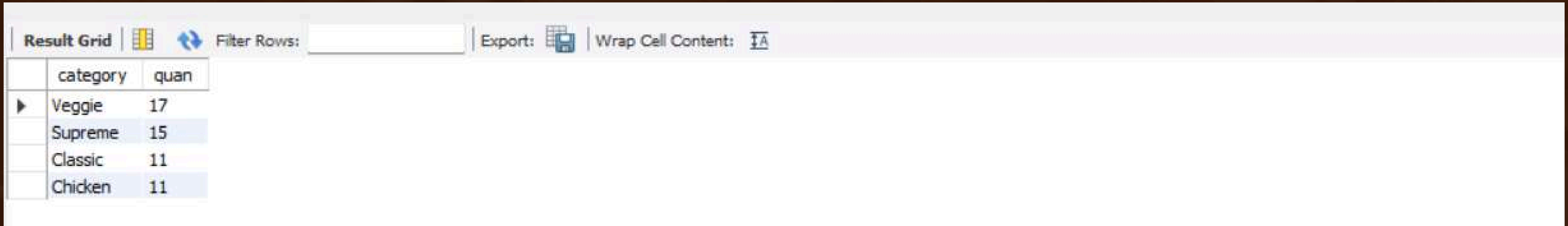
name	quan
The Mexicana Pizza	5
The Italian Supreme Pizza	8
The Five Cheese Pizza	3
The California Chicken Pizza	4
The Barbecue Chicken Pizza	3

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



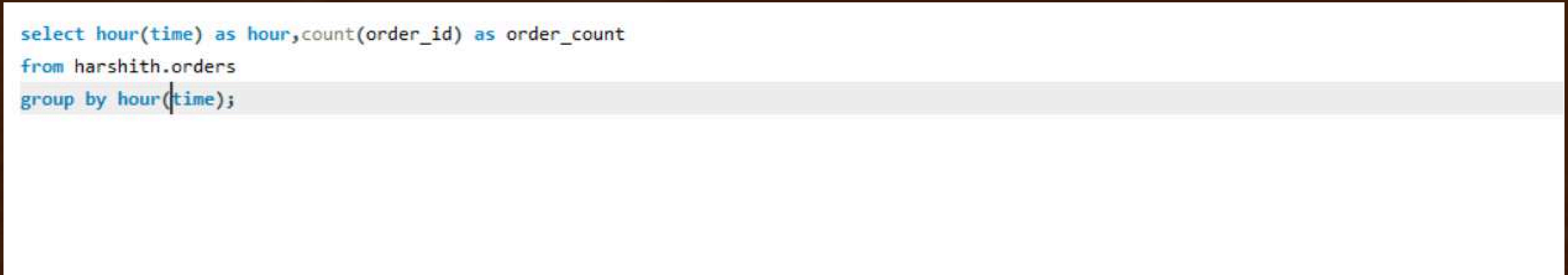
```sql
SELECT
    pizza_types.category, SUM(order_details.quantity) AS quan
FROM
    harshith.pizza_types
        JOIN
    harshith.pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    harshith.order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.category
ORDER BY quan DESC;
```

Output:-



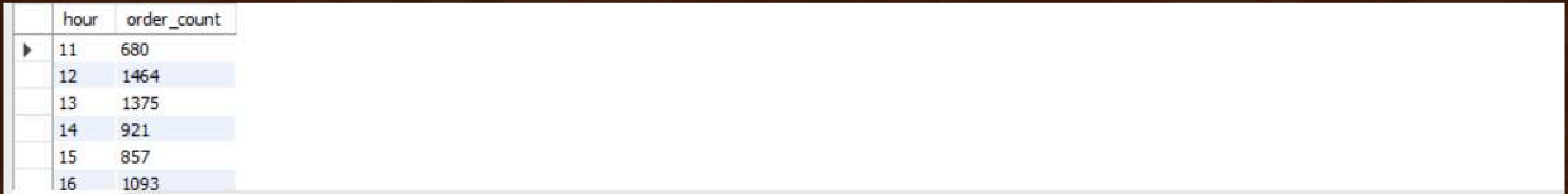
category	quan
Veggie	17
Supreme	15
Classic	11
Chicken	11

Determine the distribution of orders by hour of the day.



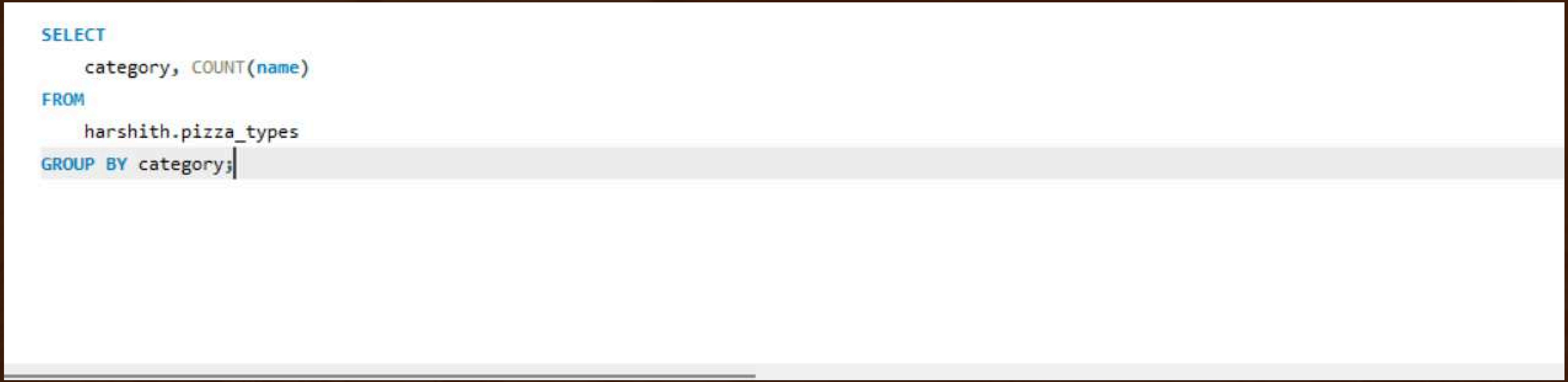
```
select hour(time) as hour,count(order_id) as order_count
from harshith.orders
group by hour(time);
```

Output:-



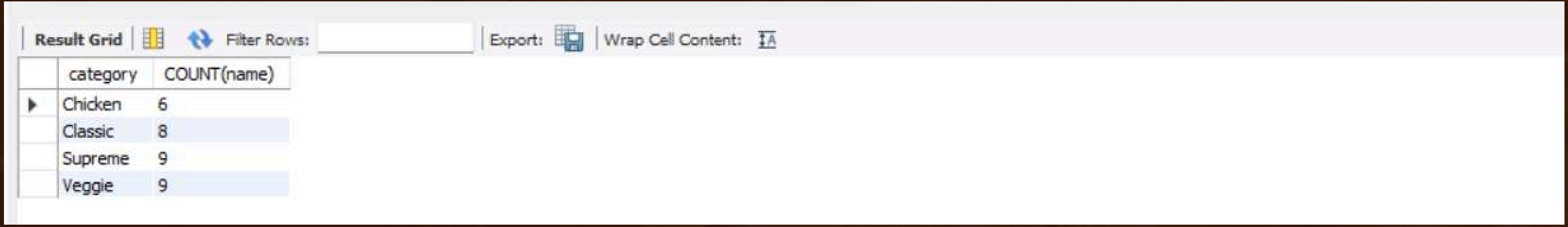
```
   hour   order_count
▶  11     680
   12     1464
   13     1375
   14     921
   15     857
   16     1093
```

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



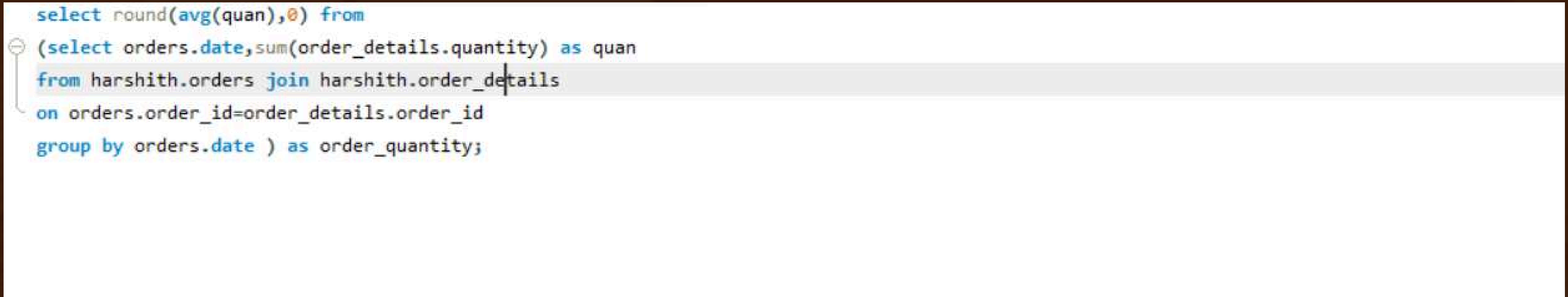
```
SELECT
    category, COUNT(name)
FROM
    harshith.pizza_types
GROUP BY category;
```

Output:-



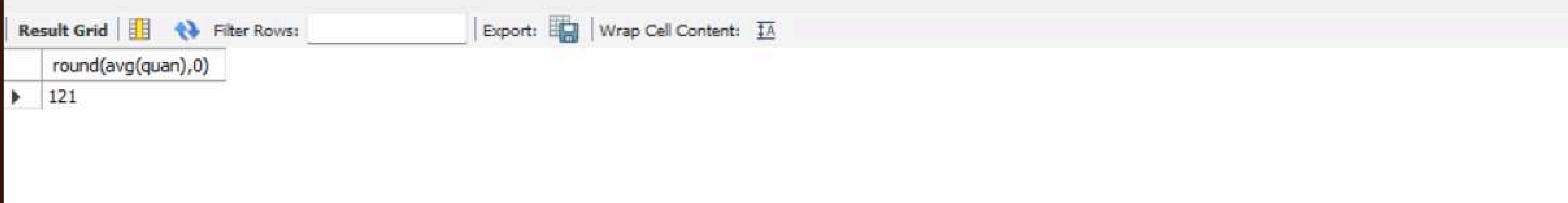
category	COUNT(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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



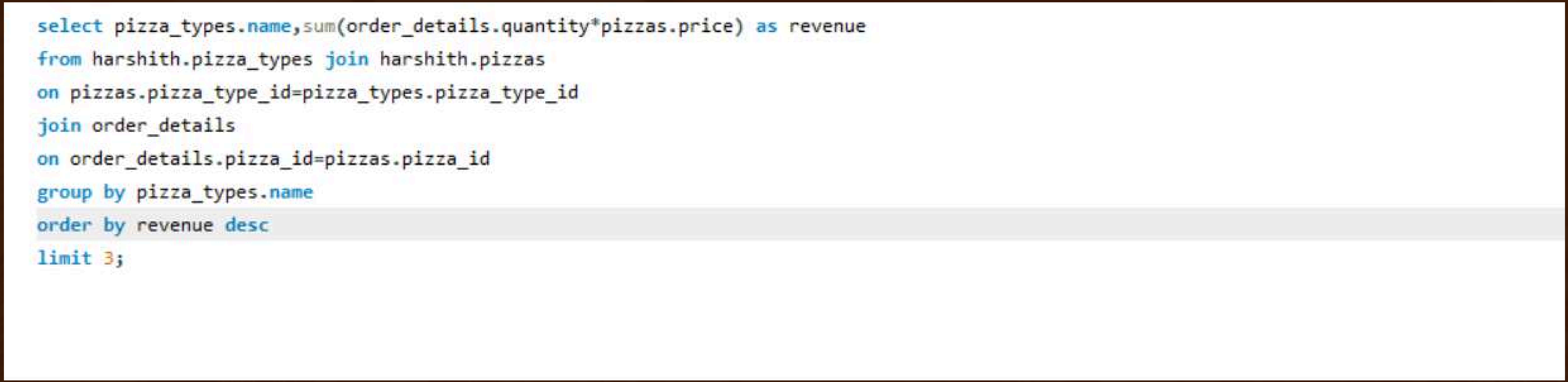
```
select round(avg(quan),0) from
(select orders.date,sum(order_details.quantity) as quan
from harshith.orders join harshith.order_details
on orders.order_id=order_details.order_id
group by orders.date ) as order_quantity;
```

Output:-



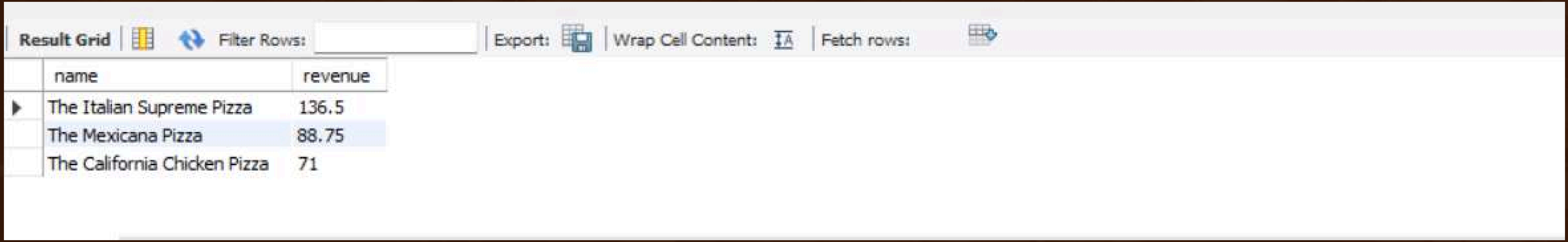
round(avg(quan),0)
121

Determine the top 3 most ordered pizza types based on revenue



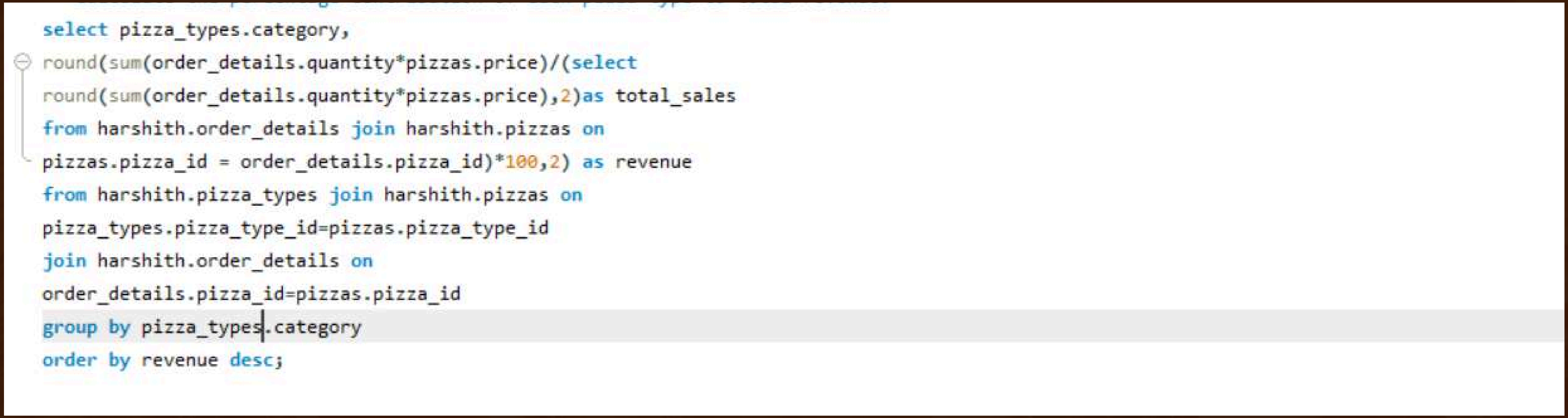
```
select pizza_types.name,sum(order_details.quantity*pizzas.price) as revenue
from harshith.pizza_types join harshith.pizzas
on pizzas.pizza_type_id=pizza_types.pizza_type_id
join order_details
on order_details.pizza_id=pizzas.pizza_id
group by pizza_types.name
order by revenue desc
limit 3;
```

Output:-



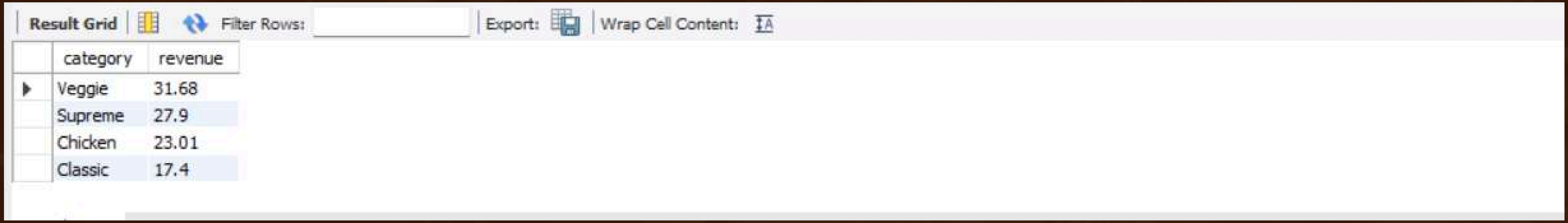
name	revenue
The Italian Supreme Pizza	136.5
The Mexicana Pizza	88.75
The California Chicken Pizza	71

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



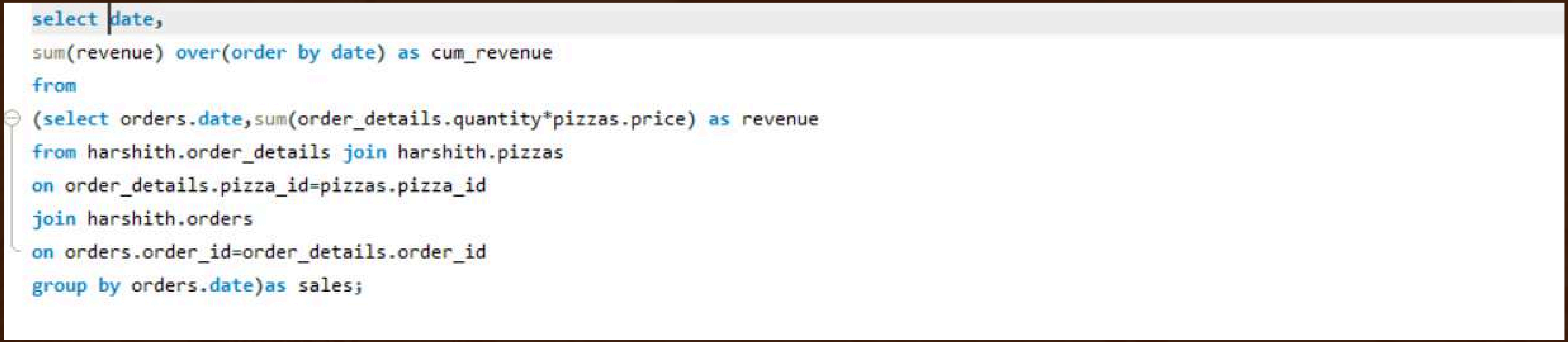
```
select pizza_types.category,
round(sum(order_details.quantity*pizzas.price)/(select
round(sum(order_details.quantity*pizzas.price),2)as total_sales
from harshith.order_details join harshith.pizzas on
pizzas.pizza_id = order_details.pizza_id)*100,2) as revenue
from harshith.pizza_types join harshith.pizzas on
pizza_types.pizza_type_id=pizzas.pizza_type_id
join harshith.order_details on
order_details.pizza_id=pizzas.pizza_id
group by pizza_types.category
order by revenue desc;
```

Output:-



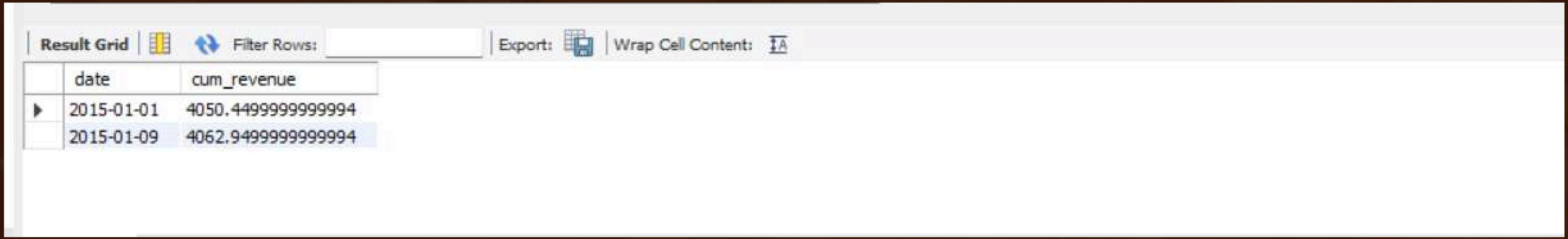
category	revenue
Veggie	31.68
Supreme	27.9
Chicken	23.01
Classic	17.4

Analyze the cumulative revenue generated over time.



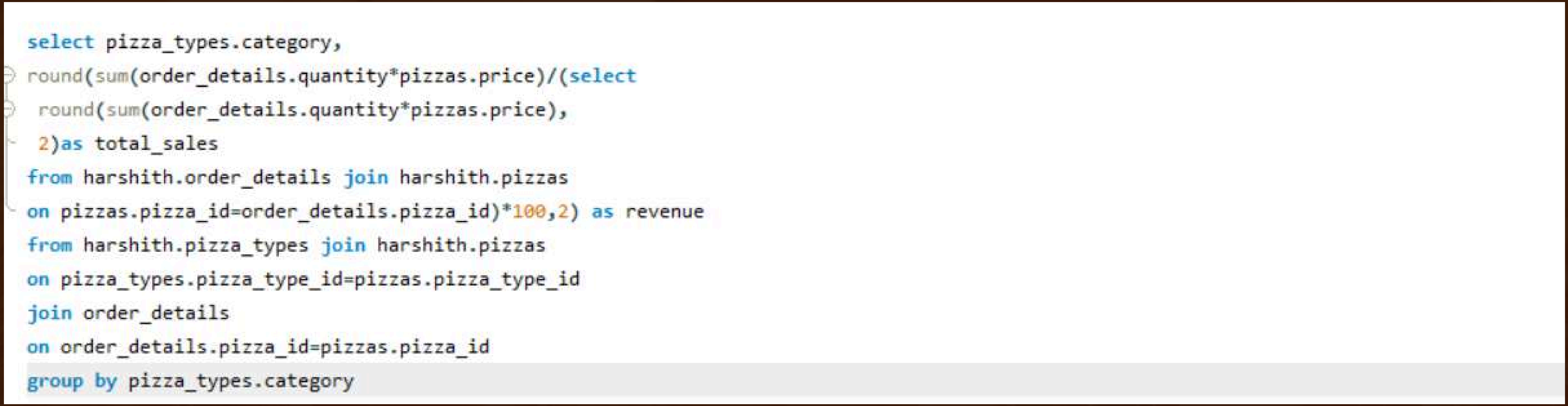
```
select date,
sum(revenue) over(order by date) as cum_revenue
from
(select orders.date,sum(order_details.quantity*pizzas.price) as revenue
from harshith.order_details join harshith.pizzas
on order_details.pizza_id=pizzas.pizza_id
join harshith.orders
on orders.order_id=order_details.order_id
group by orders.date)as sales;
```

Output:-



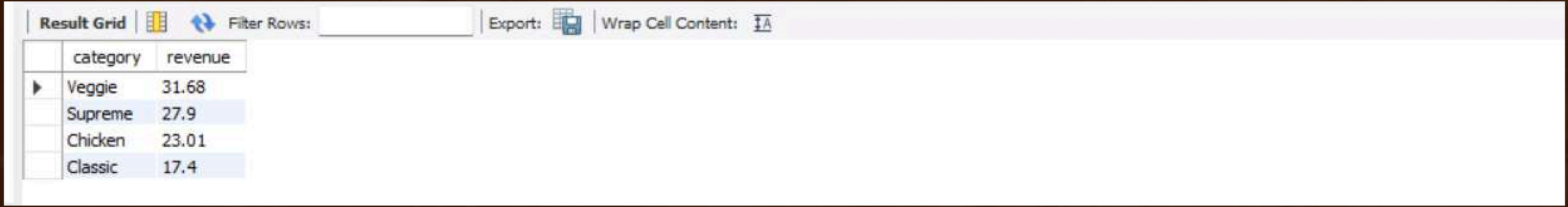
```
date        cum_revenue
2015-01-01  4050.4499999999994
2015-01-09  4062.9499999999994
```

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



```sql
select pizza_types.category,
round(sum(order_details.quantity*pizzas.price)/(select
 round(sum(order_details.quantity*pizzas.price),
 2)as total_sales
from harshith.order_details join harshith.pizzas
on pizzas.pizza_id=order_details.pizza_id)*100,2) as revenue
from harshith.pizza_types join harshith.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
```

Output:-



category	revenue
Veggie	31.68
Supreme	27.9
Chicken	23.01
Classic	17.4

THANK YOU FOR ATTENTION