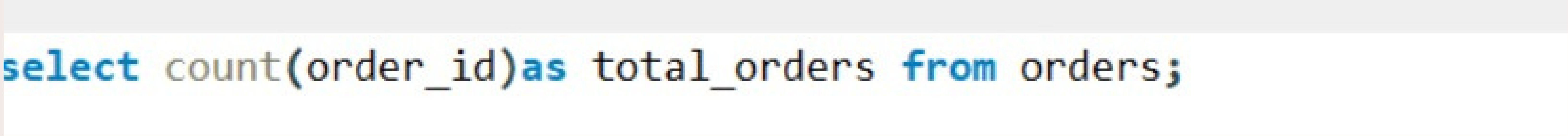
Welcome To Pizza Hut

Fresh Market Delivery Service

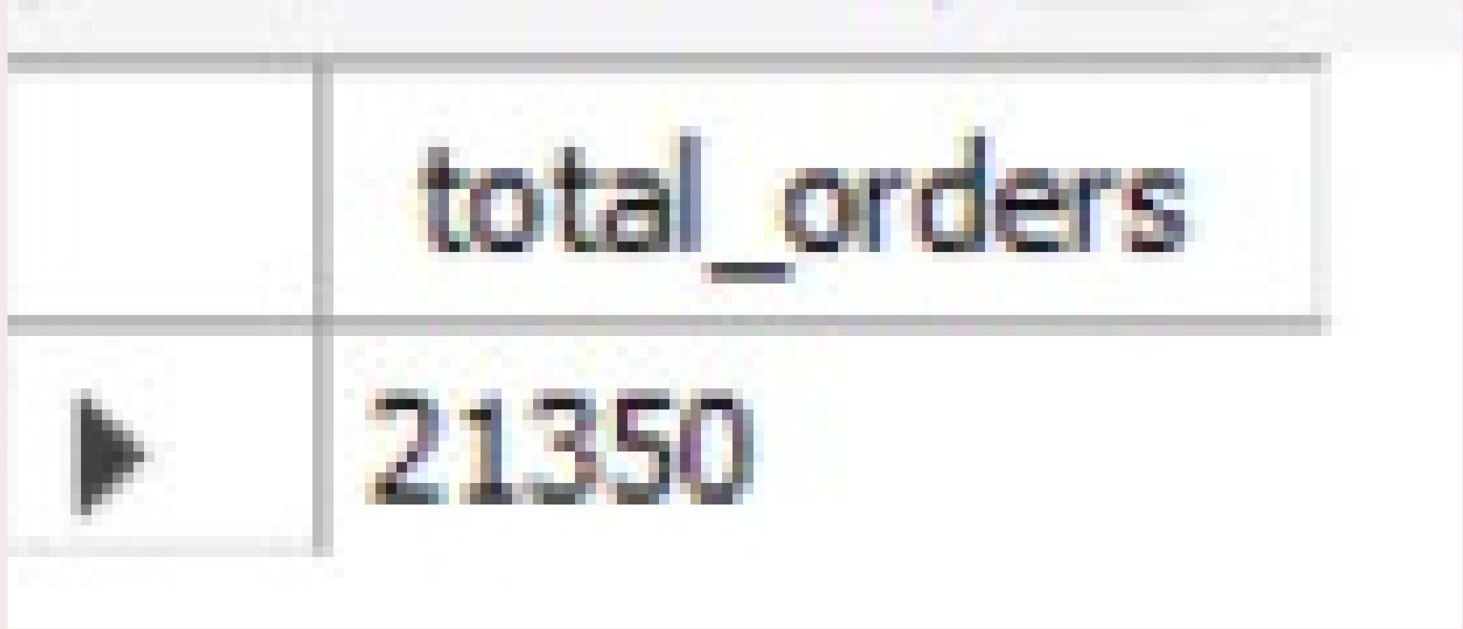
HELLO!

My name is Tushar Rawat in this project i have utilized MYSQL queries to solve a questions related to pizza sales.

Retrive the total number of orders placed.

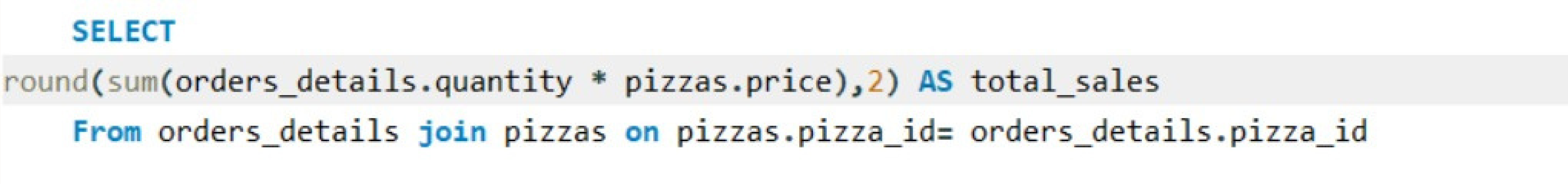


```sql
select count(order_id)as total_orders from orders;
```

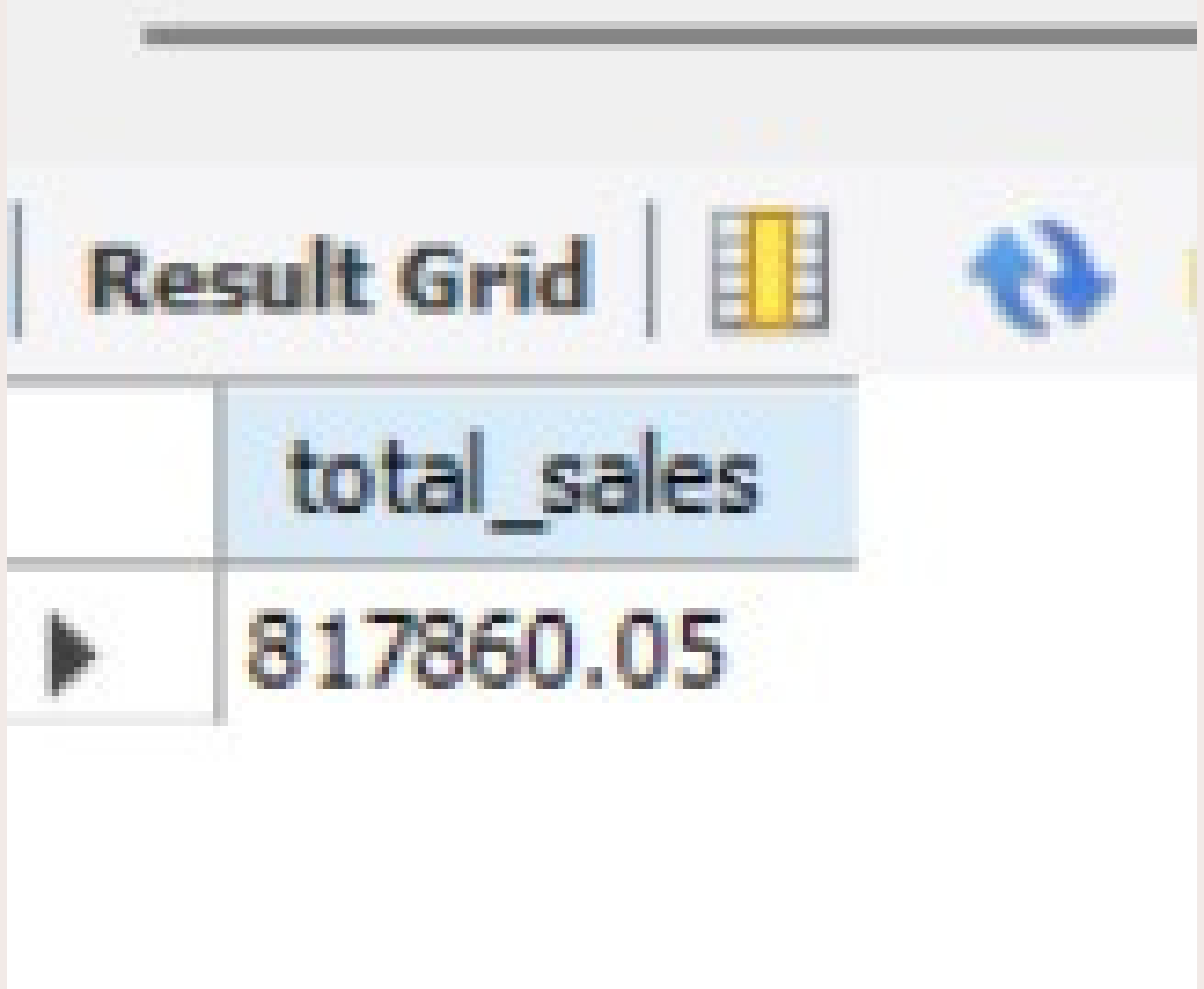


total_orders
21350

calculate the total revenue generated from pizza sales.

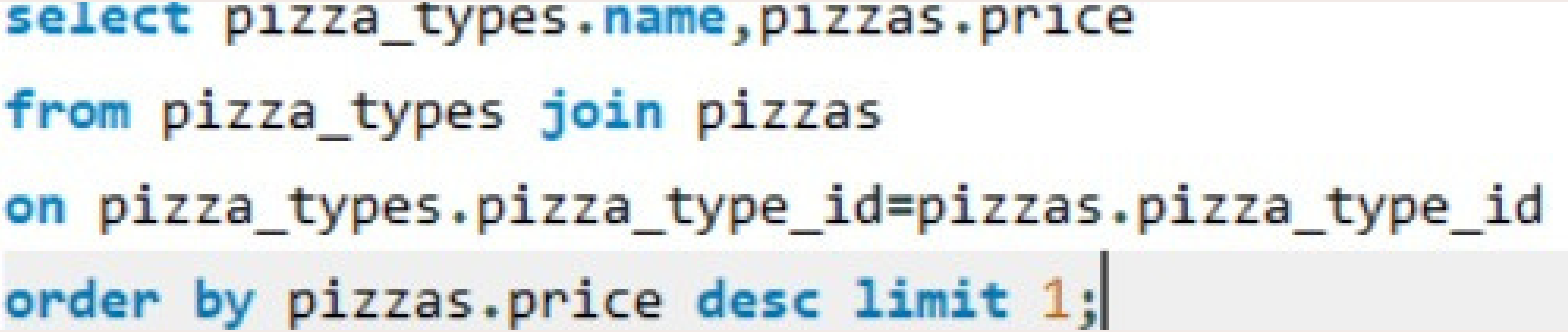


```
    SELECT
round(sum(orders_details.quantity * pizzas.price),2) AS total_sales
    From orders_details join pizzas on pizzas.pizza_id= orders_details.pizza_id
```

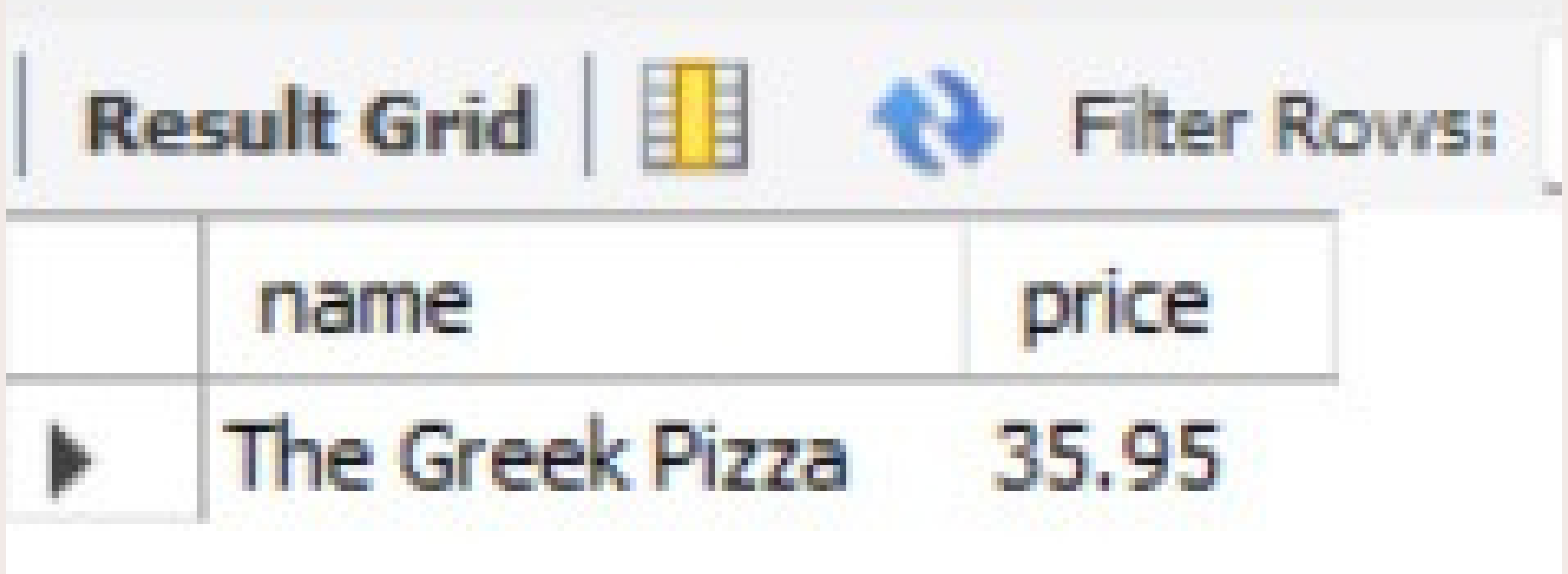


```
total_sales
817860.05
```

Idedntify the highest-priced pizza.

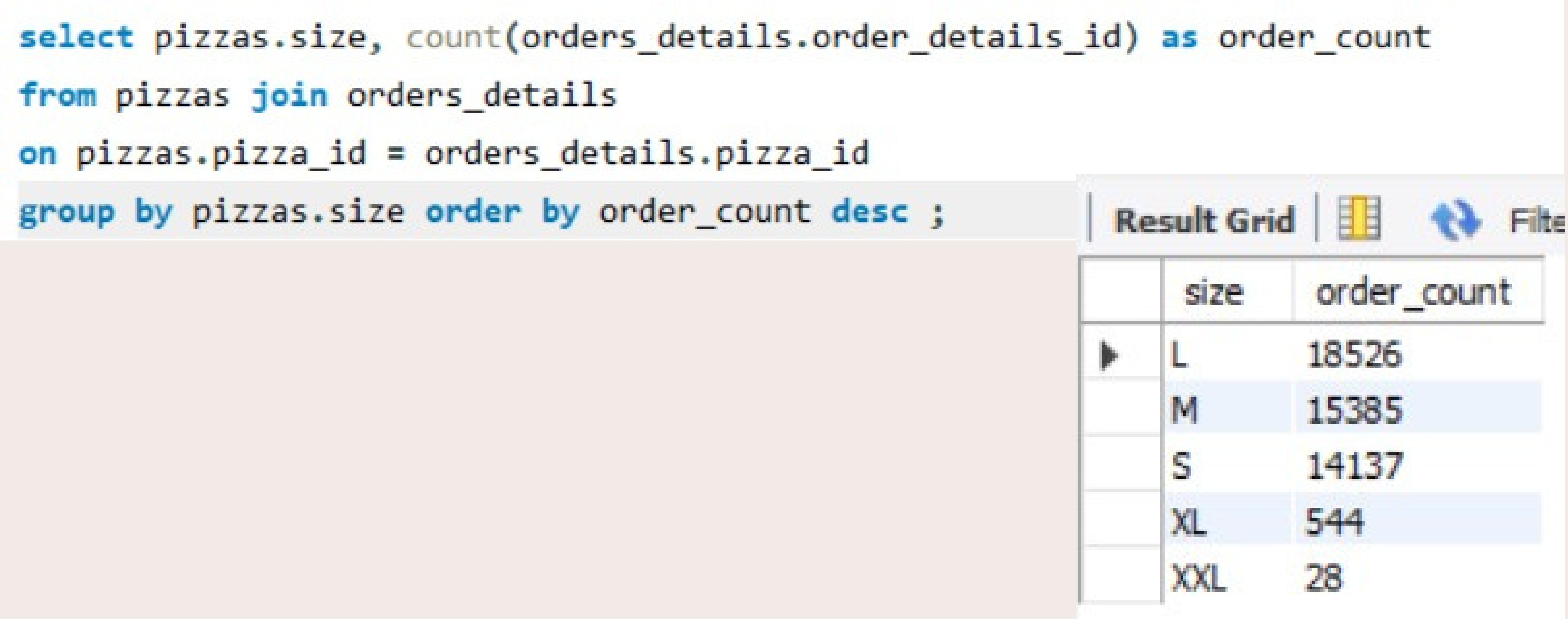


```
select pizza_types.name,pizzas.price
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
order by pizzas.price desc limit 1;
```



name	price
The Greek Pizza	35.95

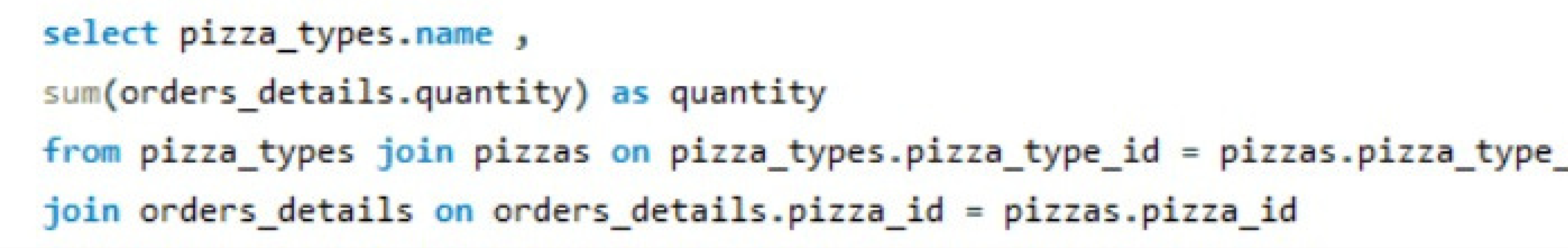
identify the most common pizza size orderd.



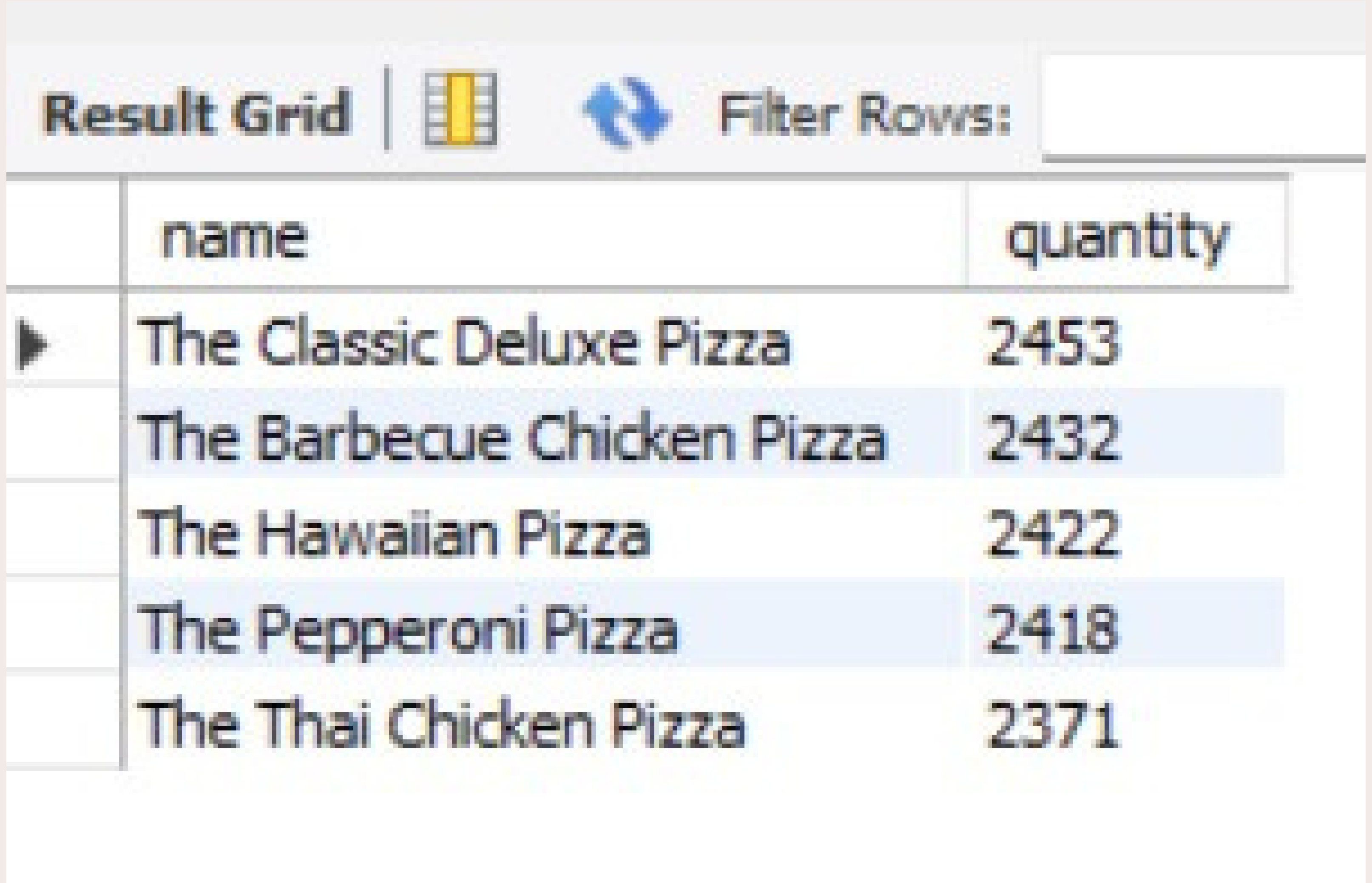
```
select pizzas.size, count(orders_details.order_details_id) as order_count
from pizzas join orders_details
on pizzas.pizza_id = orders_details.pizza_id
group by pizzas.size order by order_count desc ;
```

size	order_count
L	18526
M	15385
S	14137
XL	544
XXL	28

list the top 5 most order pizza types along with their quantities

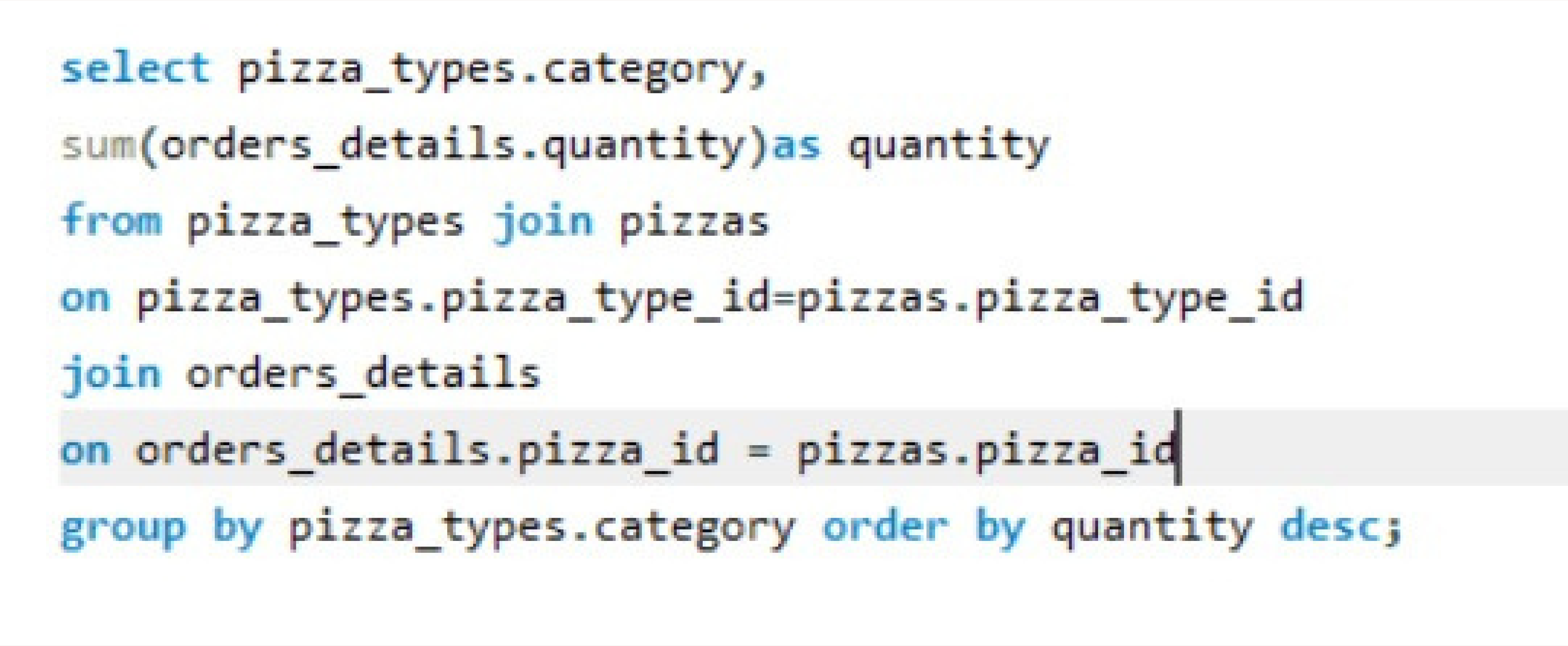


```
select pizza_types.name ,
sum(orders_details.quantity) as quantity
from pizza_types join pizzas on pizza_types.pizza_type_id = pizzas.pizza_type_
join orders_details on orders_details.pizza_id = pizzas.pizza_id
```

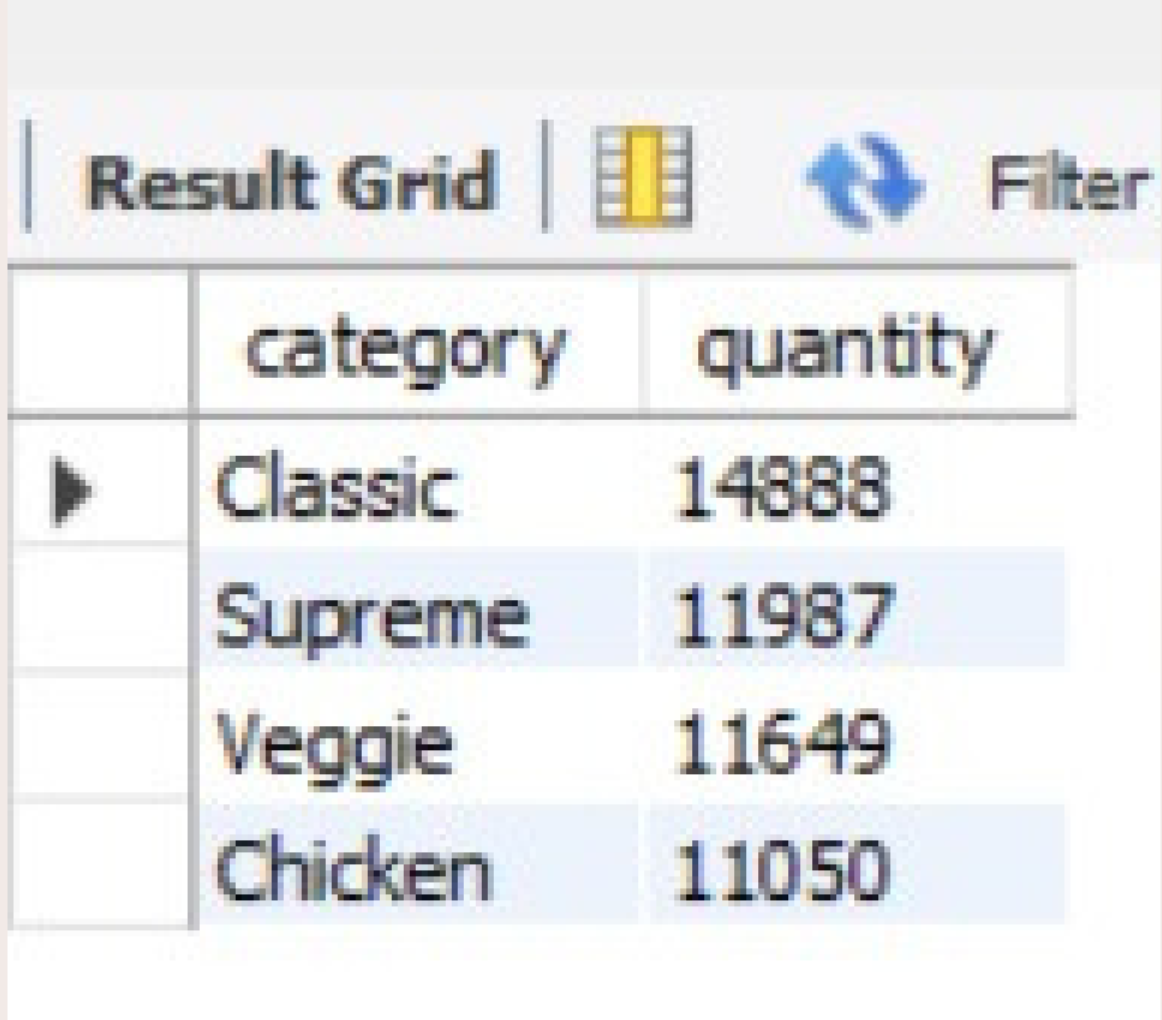


name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

join the necessary tables to find the total quantity of each pizzas categories.

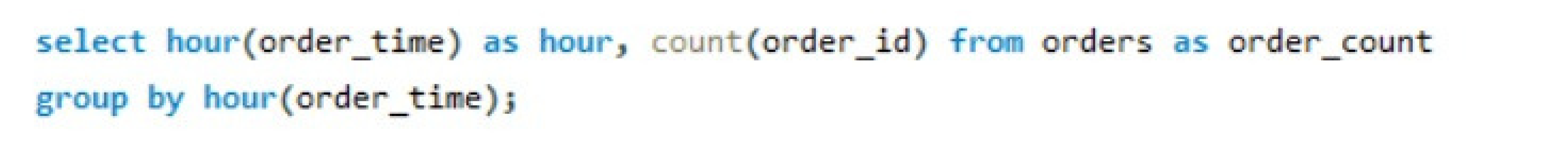


```
select pizza_types.category,
sum(orders_details.quantity)as quantity
from pizza_types join pizzas
on pizza_types.pizza_type_id=pizzas.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by pizza_types.category order by quantity desc;
```

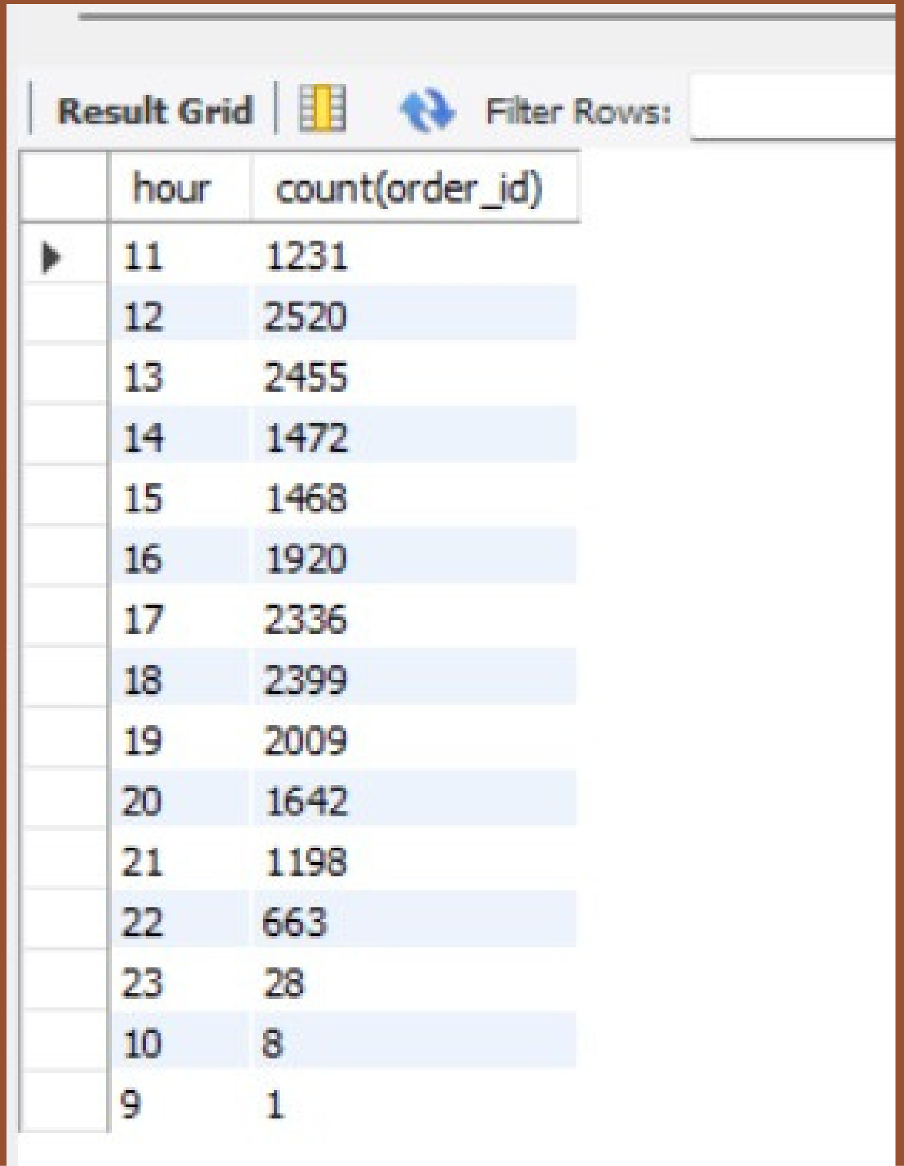


category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day

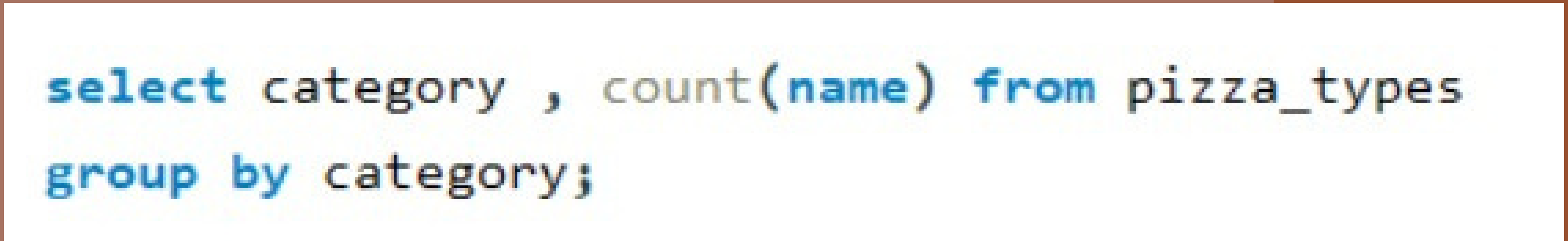


```
select hour(order_time) as hour, count(order_id) from orders as order_count
group by hour(order_time);
```

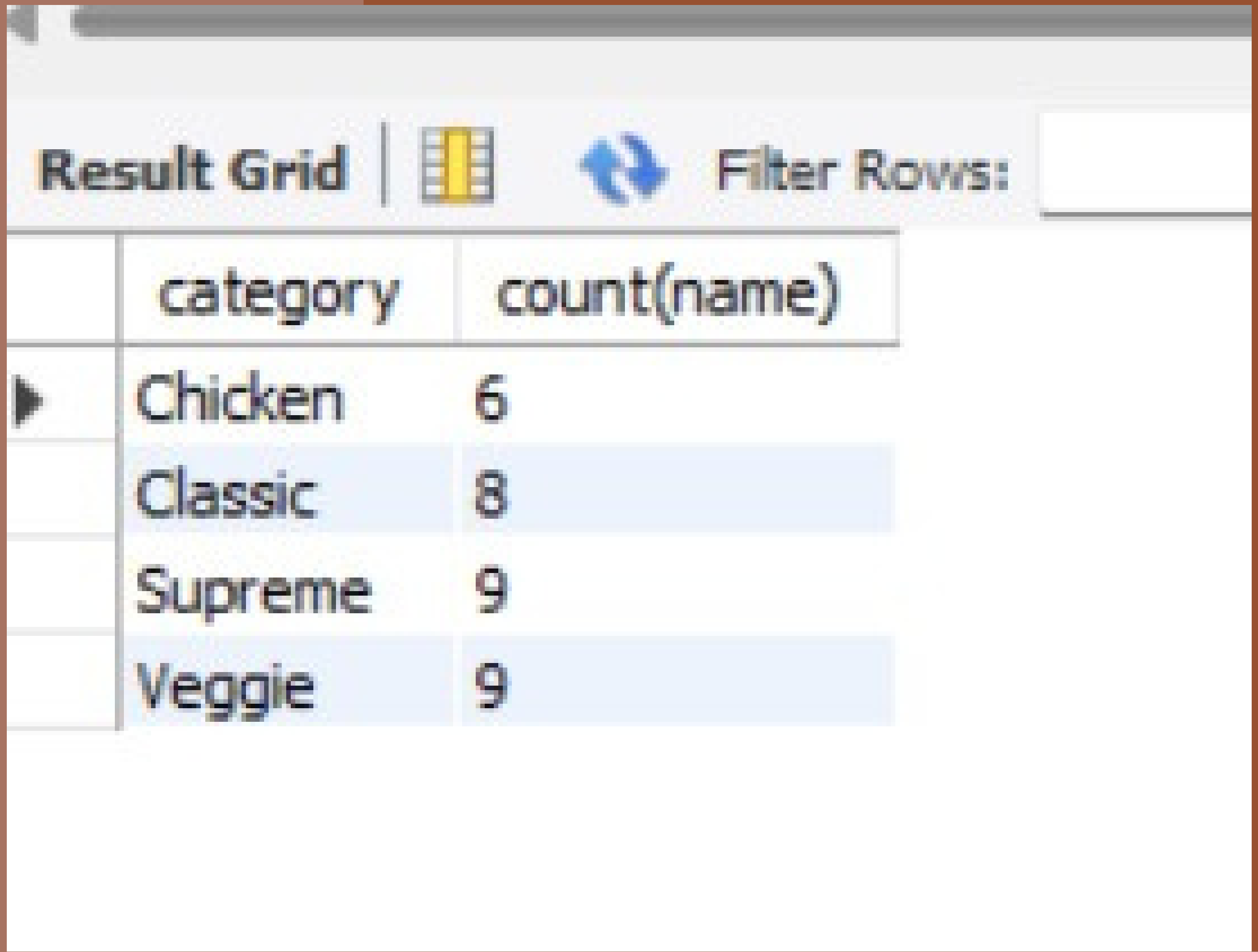


hour	count(order_id)
11	1231
12	2520
13	2455
14	1472
15	1468
16	1920
17	2336
18	2399
19	2009
20	1642
21	1198
22	663
23	28
10	8
9	1

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

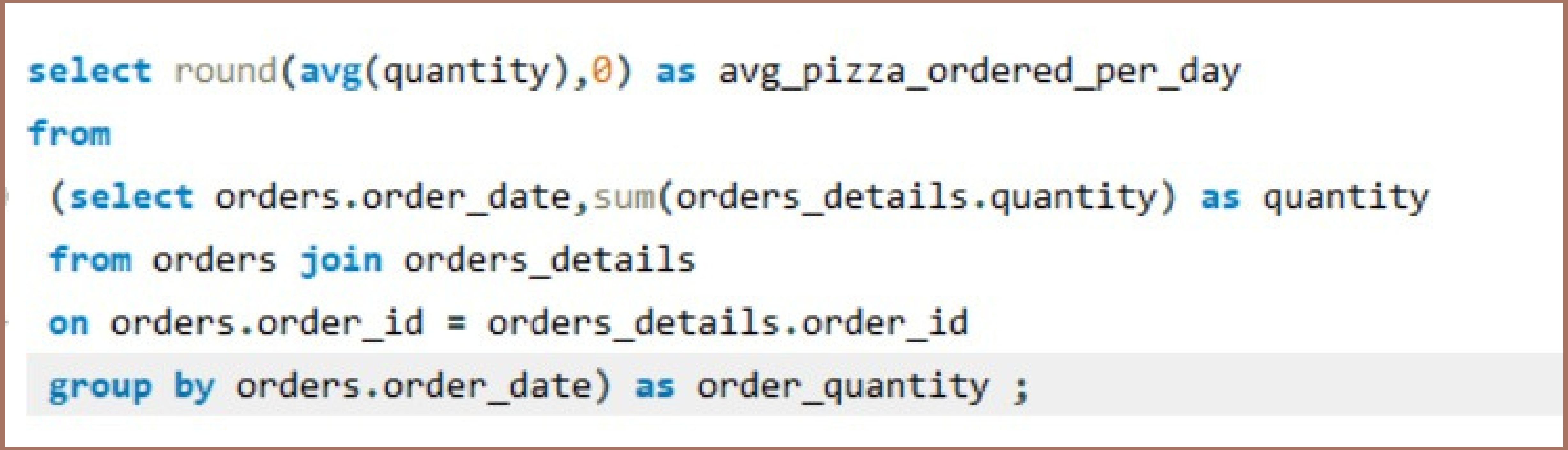


```
select category , count(name) from pizza_types
group by category;
```

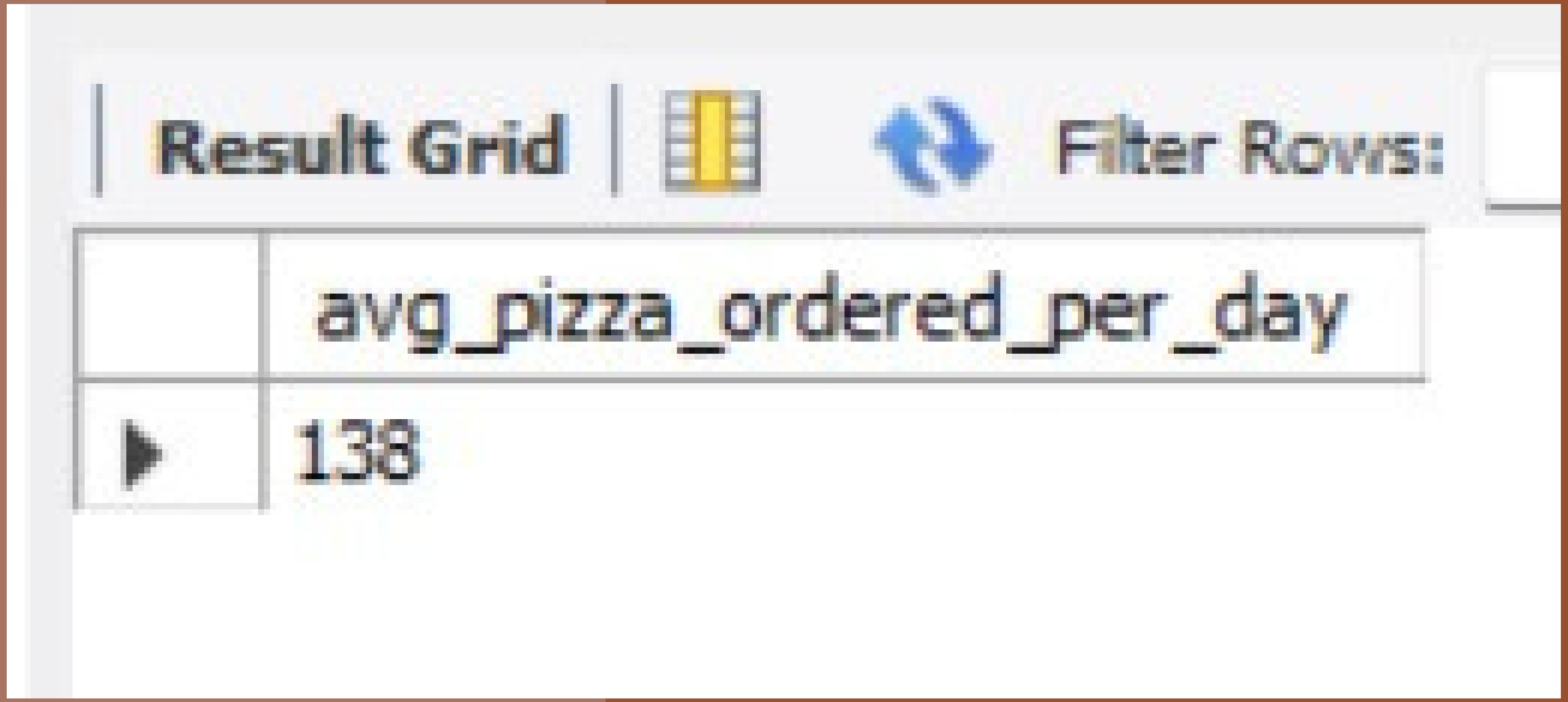


category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

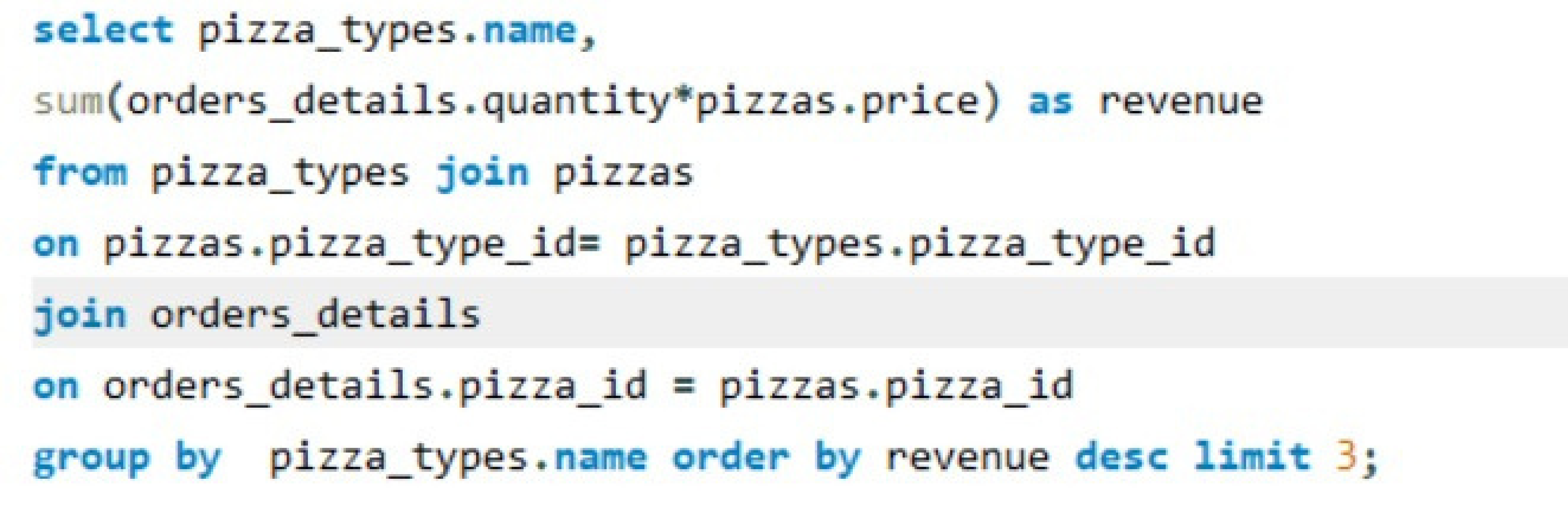


```
select round(avg(quantity),0) as avg_pizza_ordered_per_day
from
 (select orders.order_date,sum(orders_details.quantity) as quantity
 from orders join orders_details
 on orders.order_id = orders_details.order_id
 group by orders.order_date) as order_quantity ;
```

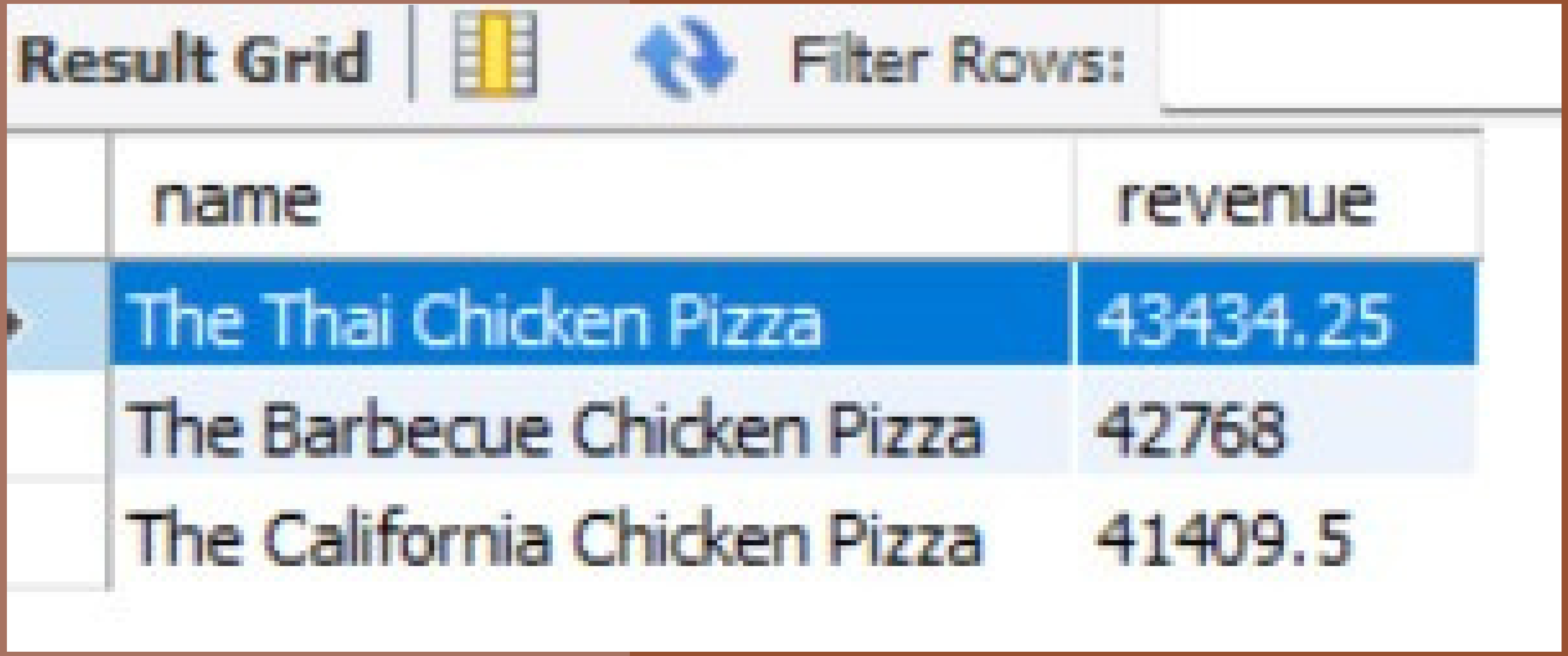


```
avg_pizza_ordered_per_day
138
```

Dtermine the top3 most ordered pizza types based on revenue.

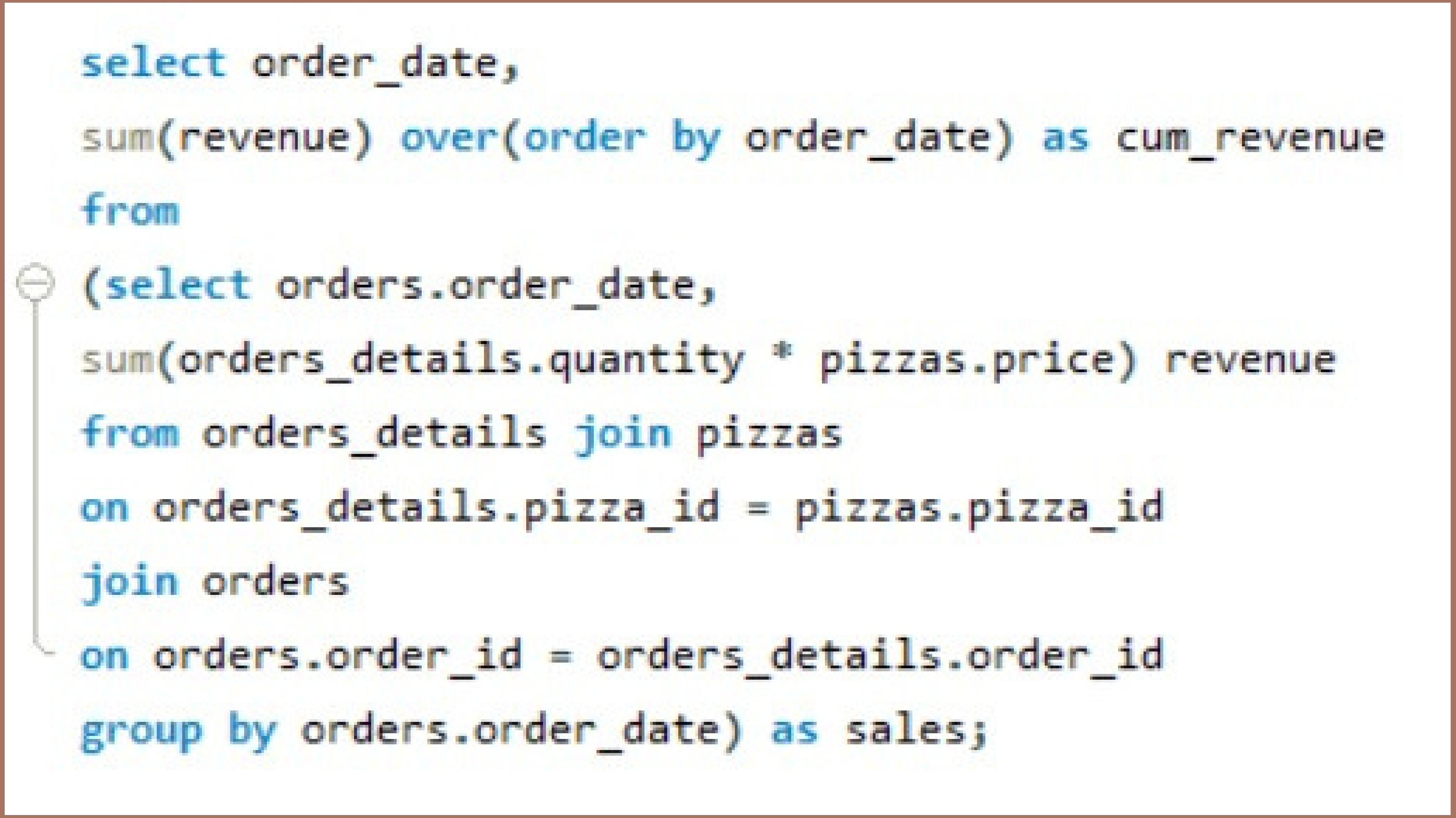


```
select pizza_types.name,
sum(orders_details.quantity*pizzas.price) as revenue
from pizza_types join pizzas
on pizzas.pizza_type_id= pizza_types.pizza_type_id
join orders_details
on orders_details.pizza_id = pizzas.pizza_id
group by  pizza_types.name order by revenue desc limit 3;
```

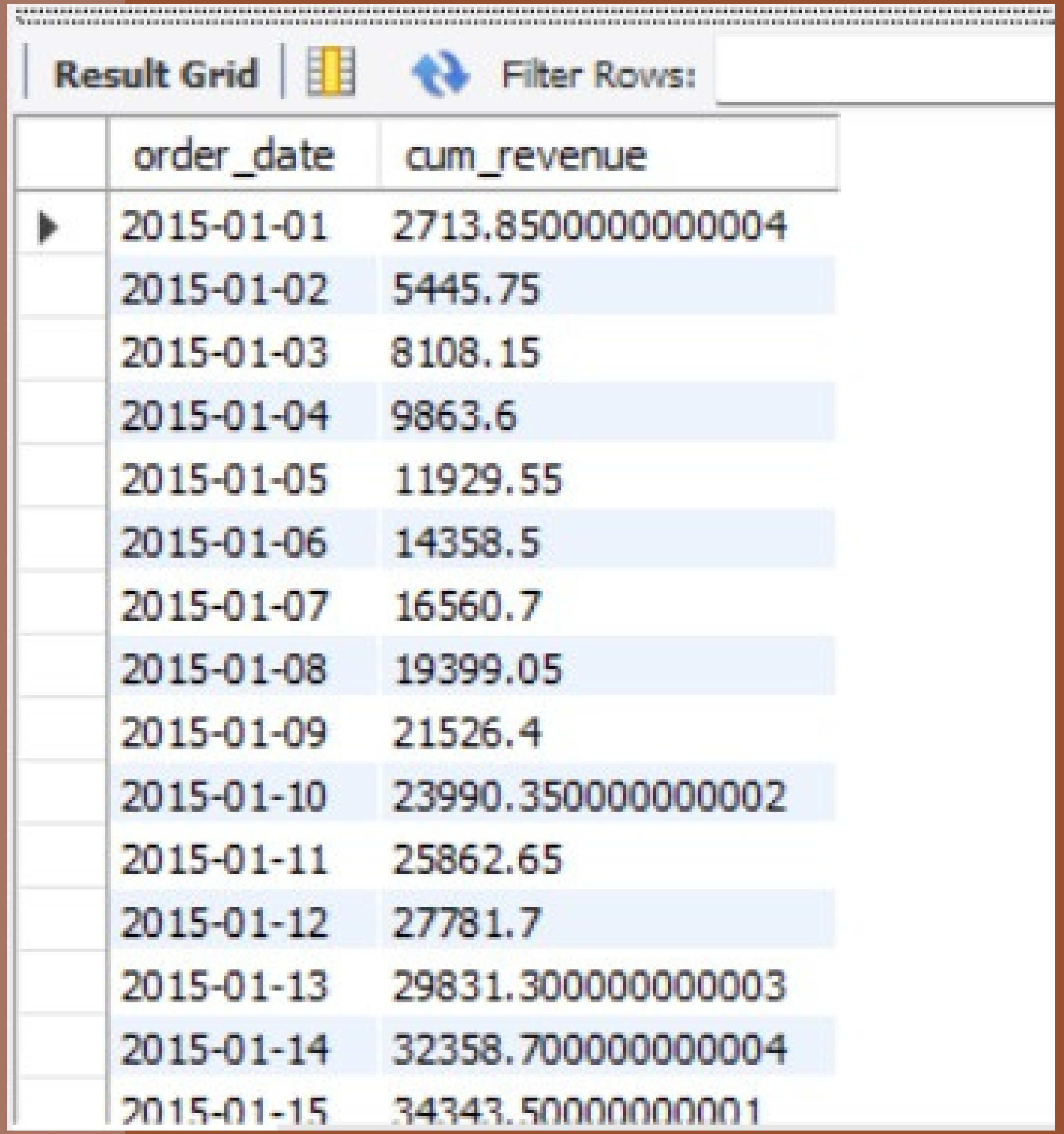


name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5

analyze the cumulative revenue generated over time

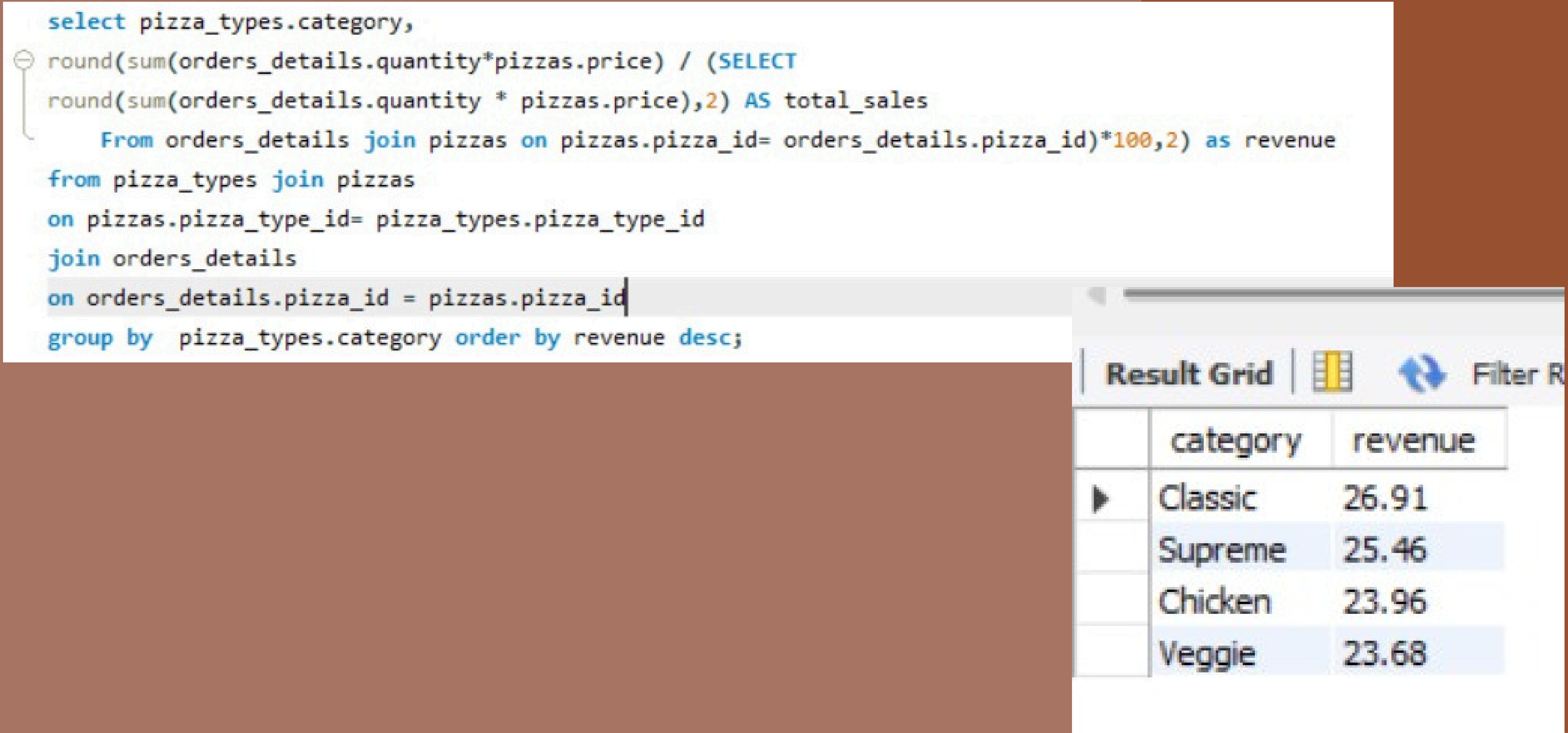


```
select order_date,
sum(revenue) over(order by order_date) as cum_revenue
from
(select orders.order_date,
sum(orders_details.quantity * pizzas.price) revenue
from orders_details join pizzas
on orders_details.pizza_id = pizzas.pizza_id
join orders
on orders.order_id = orders_details.order_id
group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



order_date	cum_revenue
2015-01-01	2713.850000000004
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

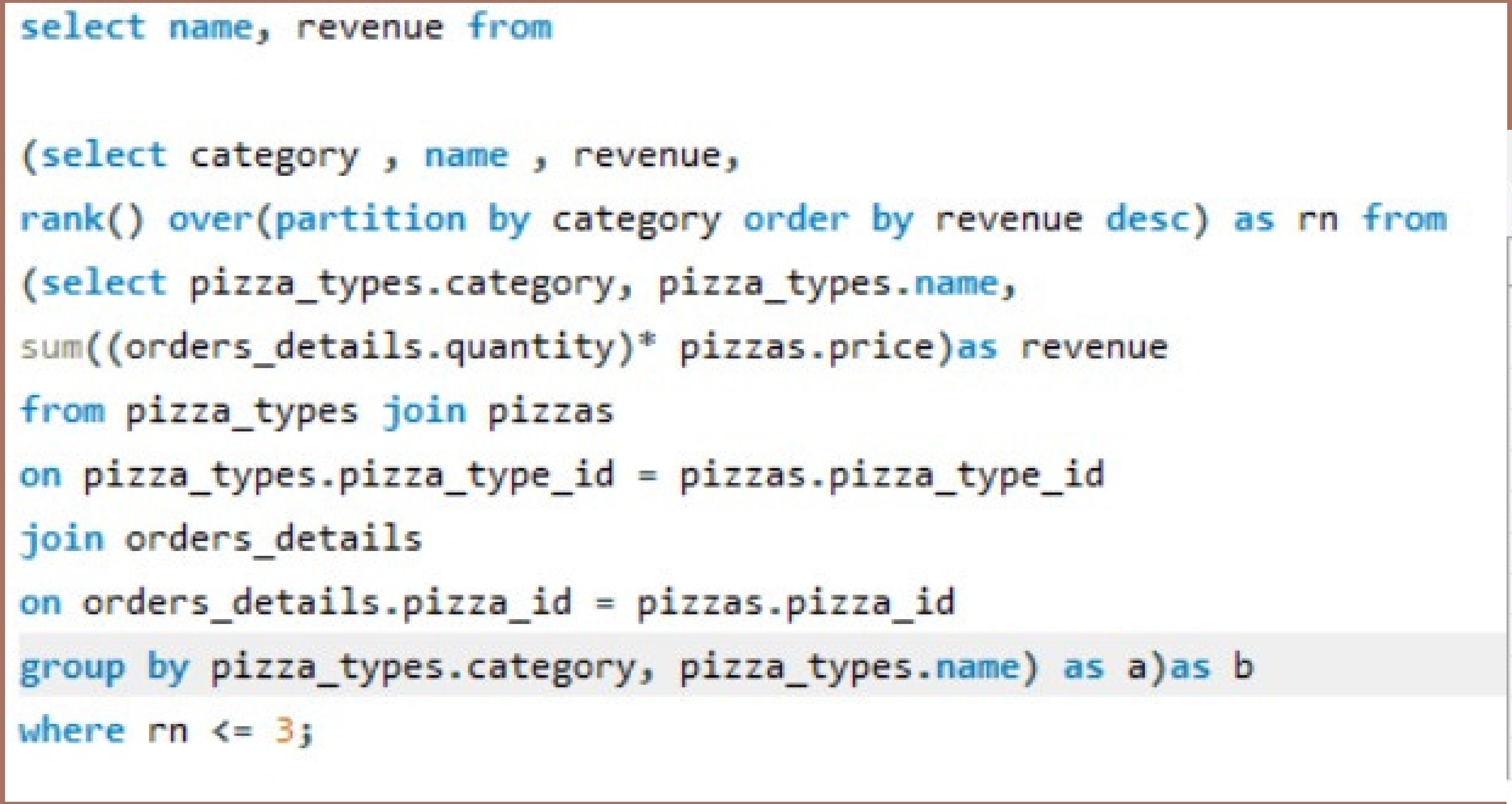
calculate the percentage contribution of each pizza type to total revenue



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

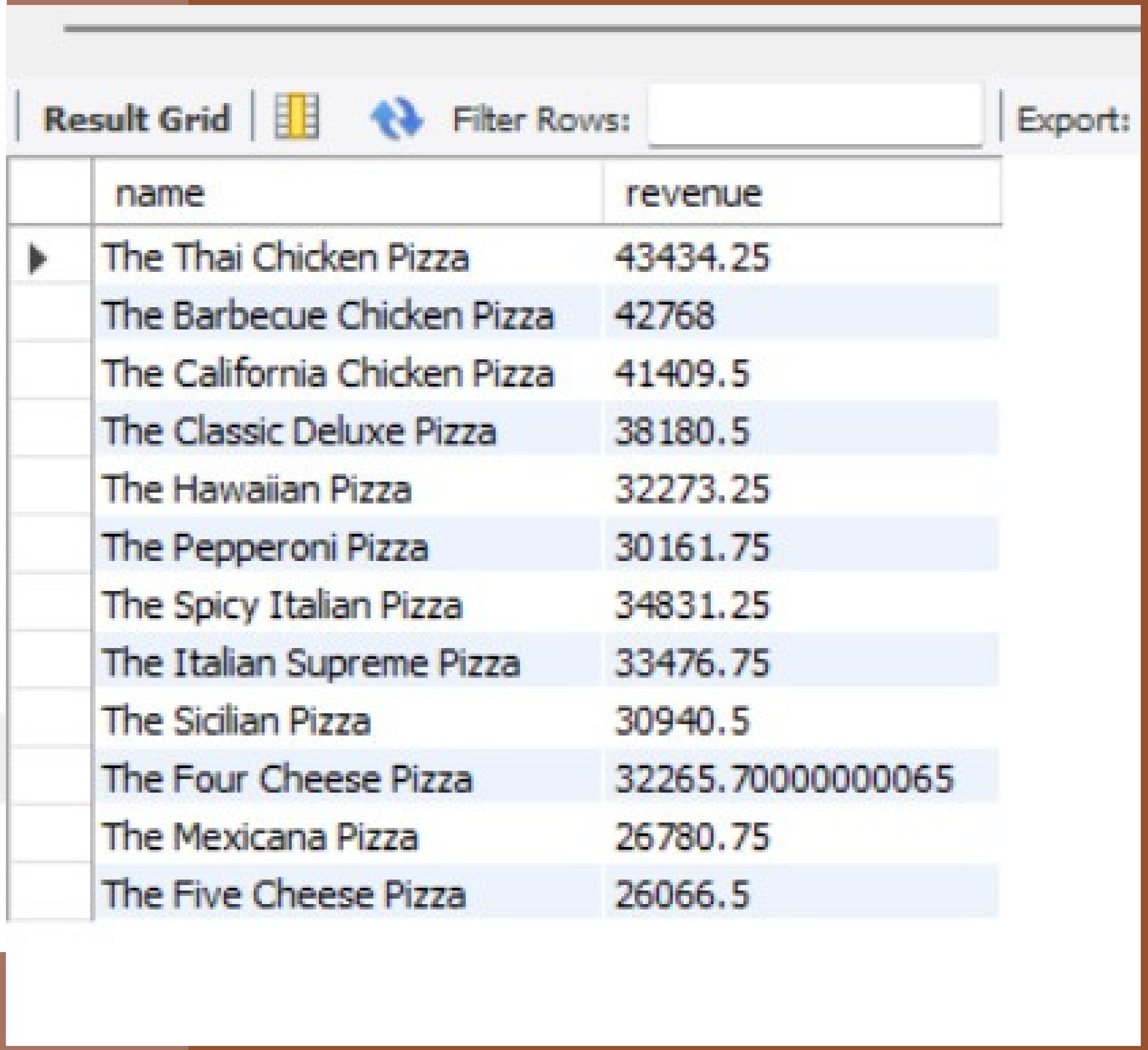
category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

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



```
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
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
group by pizza_types.category, pizza_types.name) as a)as b
where rn <= 3;
```



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
The Pepperoni Pizza	30161.75
The Spicy Italian Pizza	34831.25
The Italian Supreme Pizza	33476.75
The Sicilian Pizza	30940.5
The Four Cheese Pizza	32265.7000000065
The Mexicana Pizza	26780.75
The Five Cheese Pizza	26066.5

Thankyou