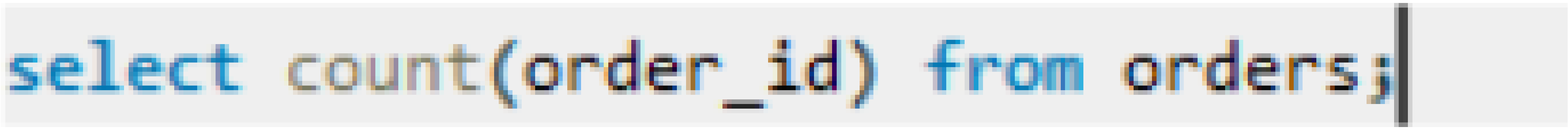
PIZZA SALES

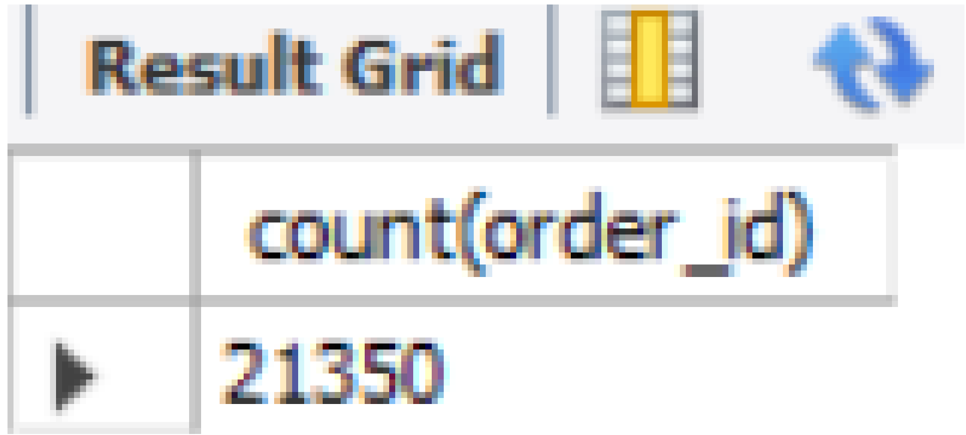
Project

SQL PROJECT

Retrieve the total number of orders placed

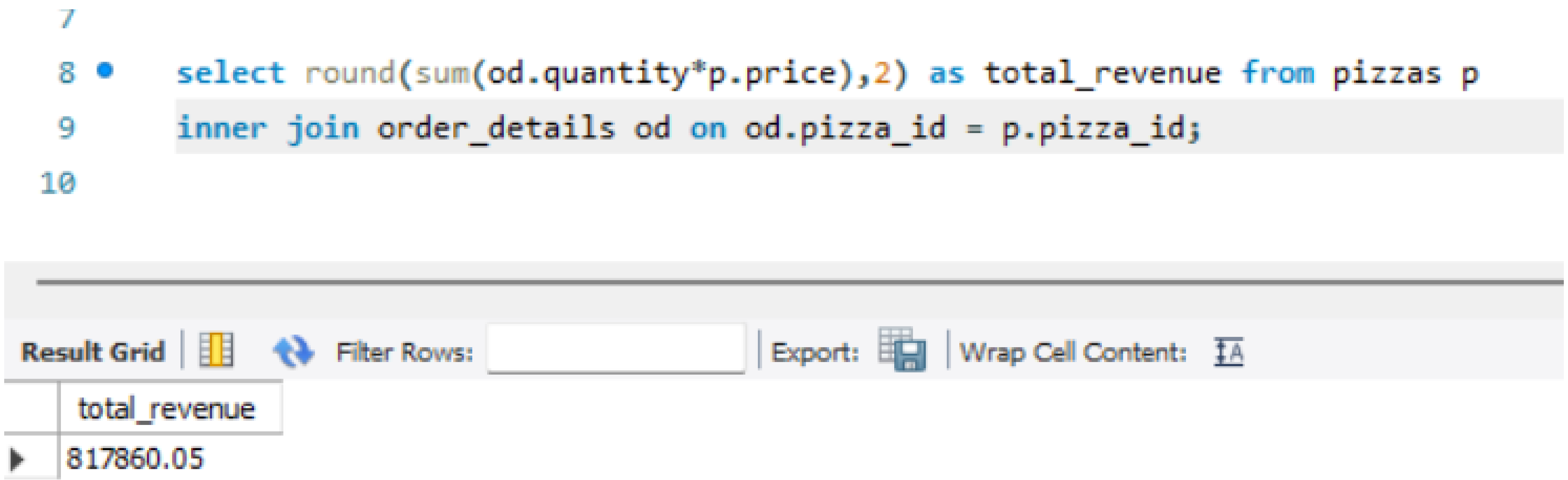


```
select count(order_id) from orders;
```



count(order_id)
21350

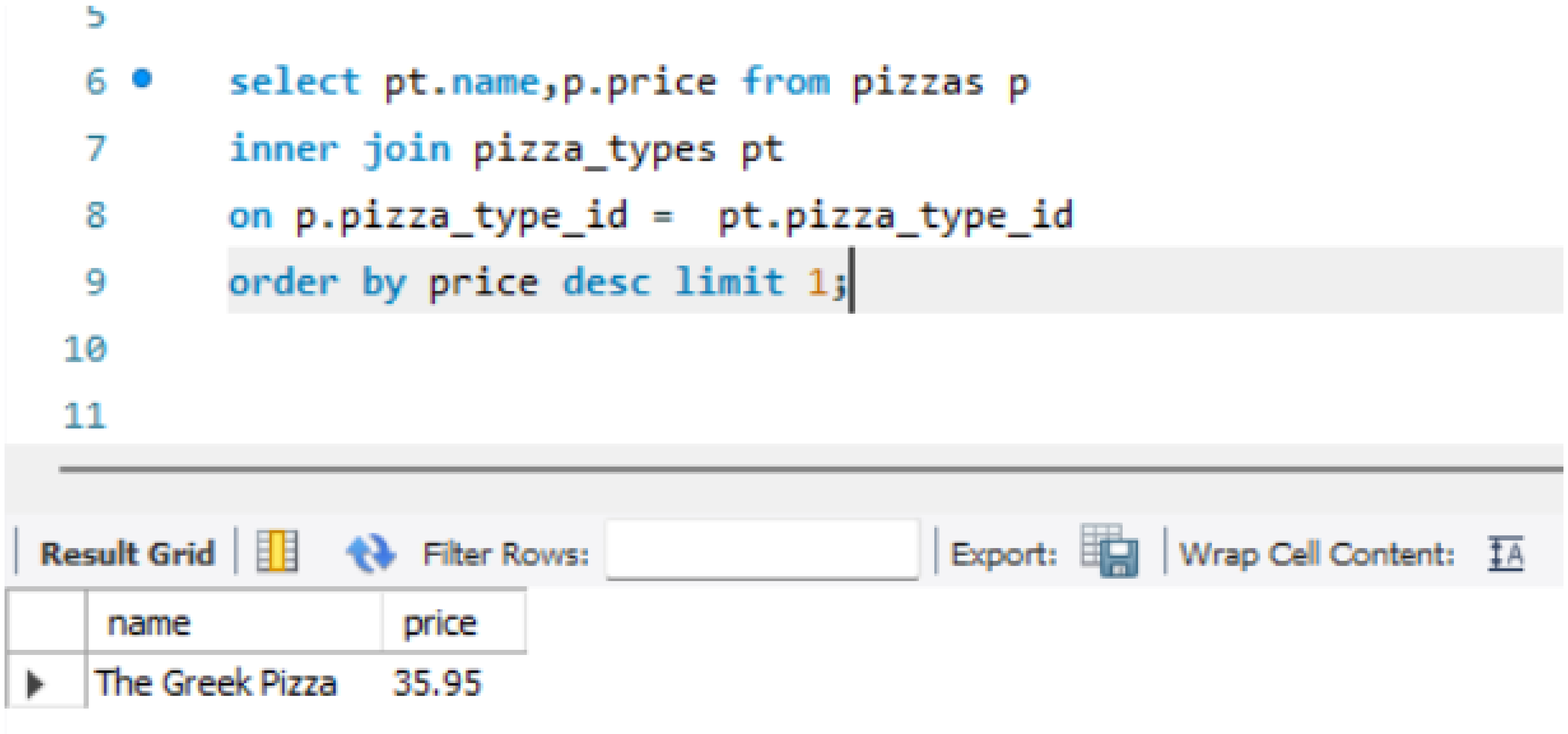
Calculate the total revenue generated from pizza sales



```sql
select round(sum(od.quantity*p.price),2) as total_revenue from pizzas p
inner join order_details od on od.pizza_id = p.pizza_id;
```

total_revenue
817860.05

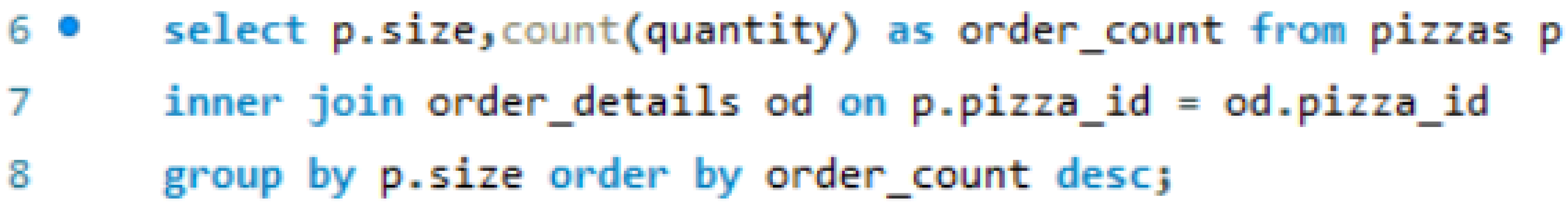
Identify the highest-priced pizza



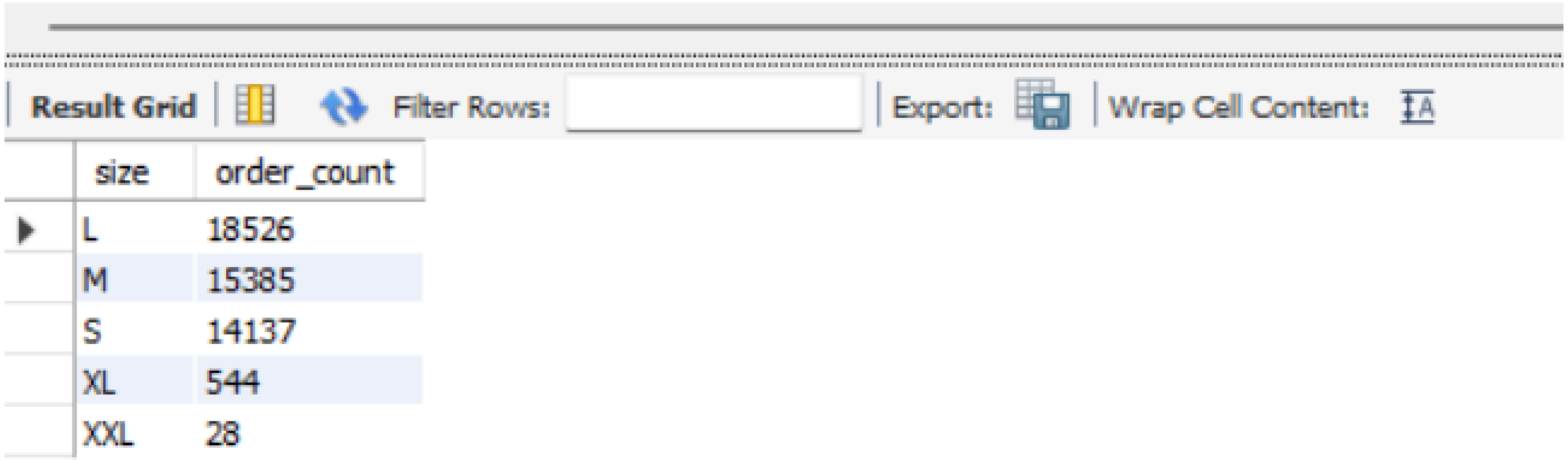
```
select pt.name,p.price from pizzas p
inner join pizza_types pt
on p.pizza_type_id =  pt.pizza_type_id
order by price desc limit 1;
```

name	price
The Greek Pizza	35.95

Identify the most common pizza size ordered

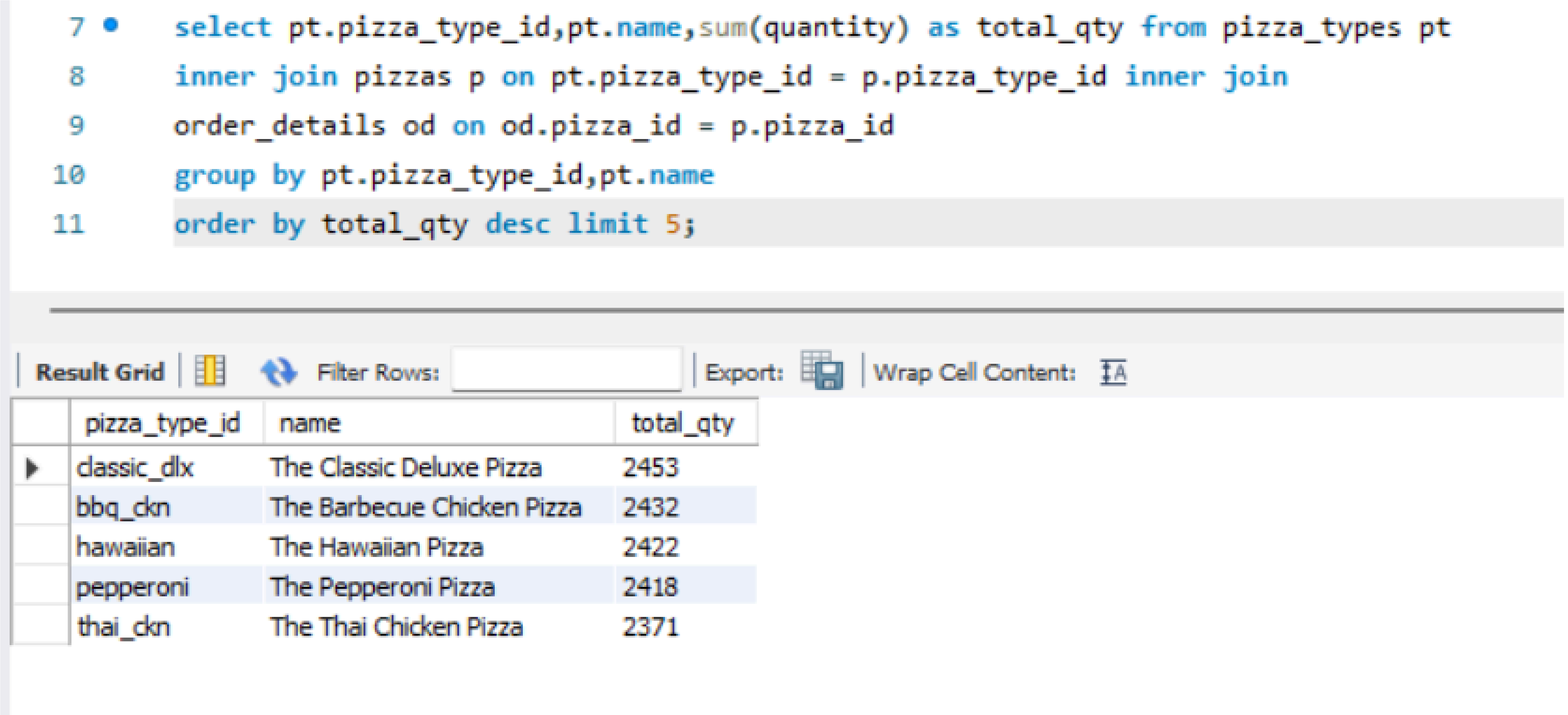


```sql
select p.size,count(quantity) as order_count from pizzas p
inner join order_details od on p.pizza_id = od.pizza_id
group by p.size order by order_count desc;
```



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

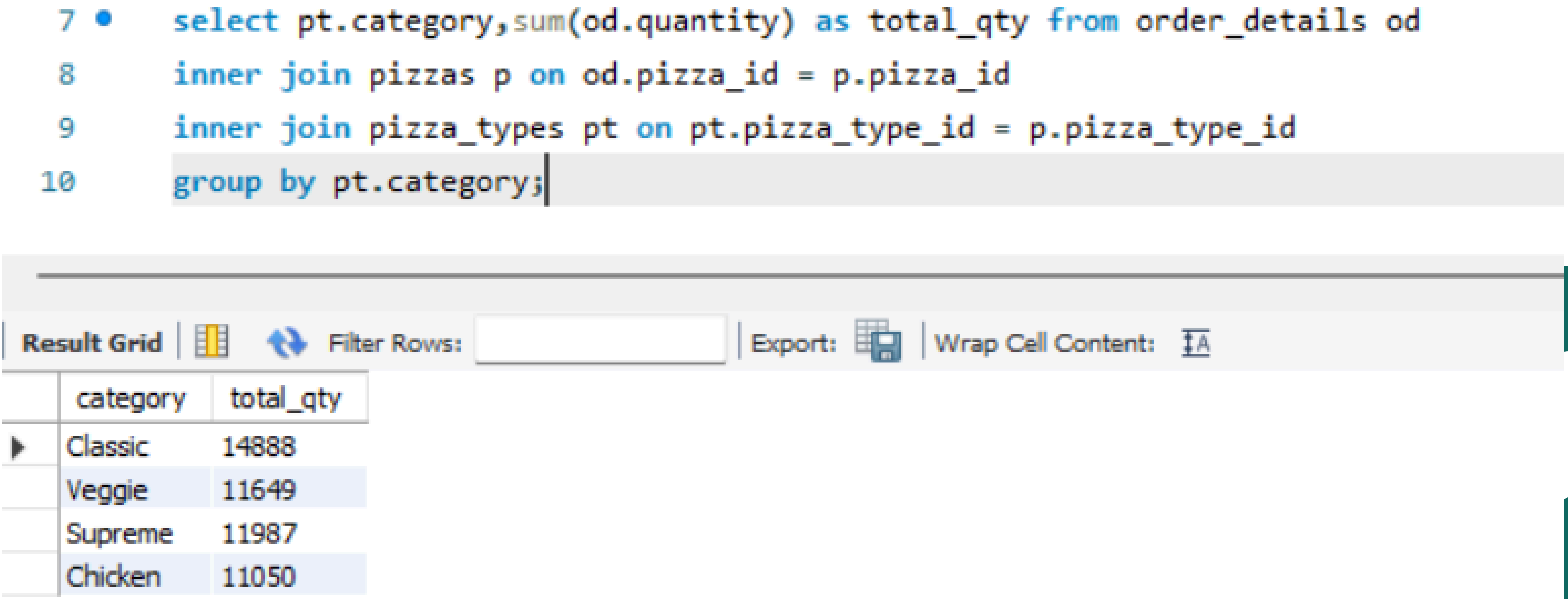
List the top 5 most ordered pizza types along with their quantities



```sql
select pt.pizza_type_id,pt.name,sum(quantity) as total_qty from pizza_types pt
inner join pizzas p on pt.pizza_type_id = p.pizza_type_id inner join
order_details od on od.pizza_id = p.pizza_id
group by pt.pizza_type_id,pt.name
order by total_qty desc limit 5;
```

pizza_type_id	name	total_qty
classic_dlx	The Classic Deluxe Pizza	2453
bbq_ckn	The Barbecue Chicken Pizza	2432
hawaiian	The Hawaiian Pizza	2422
pepperoni	The Pepperoni Pizza	2418
thai_ckn	The Thai Chicken Pizza	2371

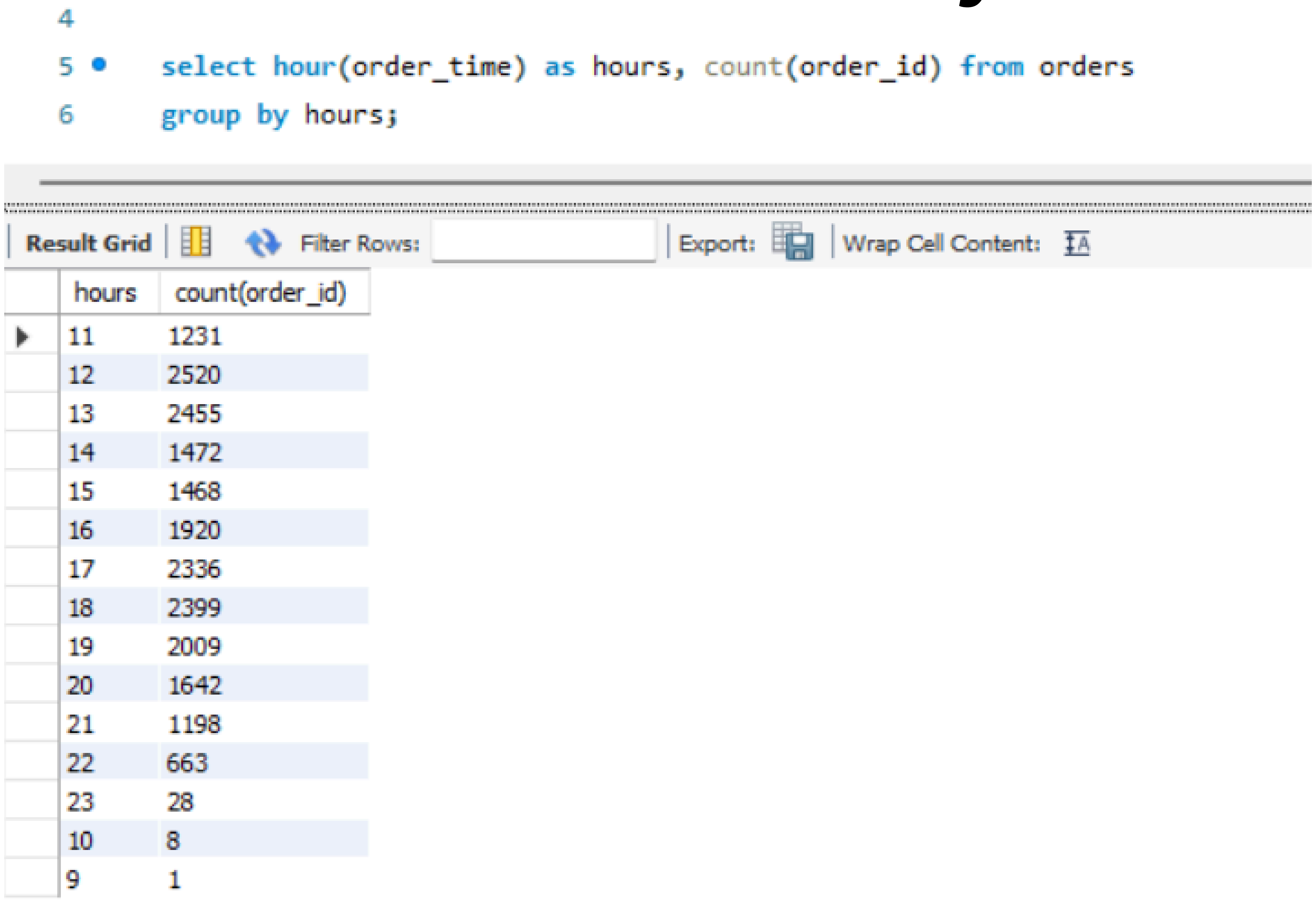
Join the necessary tables to find the total quantity of each pizza category ordered



```sql
select pt.category,sum(od.quantity) as total_qty from order_details od
inner join pizzas p on od.pizza_id = p.pizza_id
inner join pizza_types pt on pt.pizza_type_id = p.pizza_type_id
group by pt.category;
```

category	total_qty
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

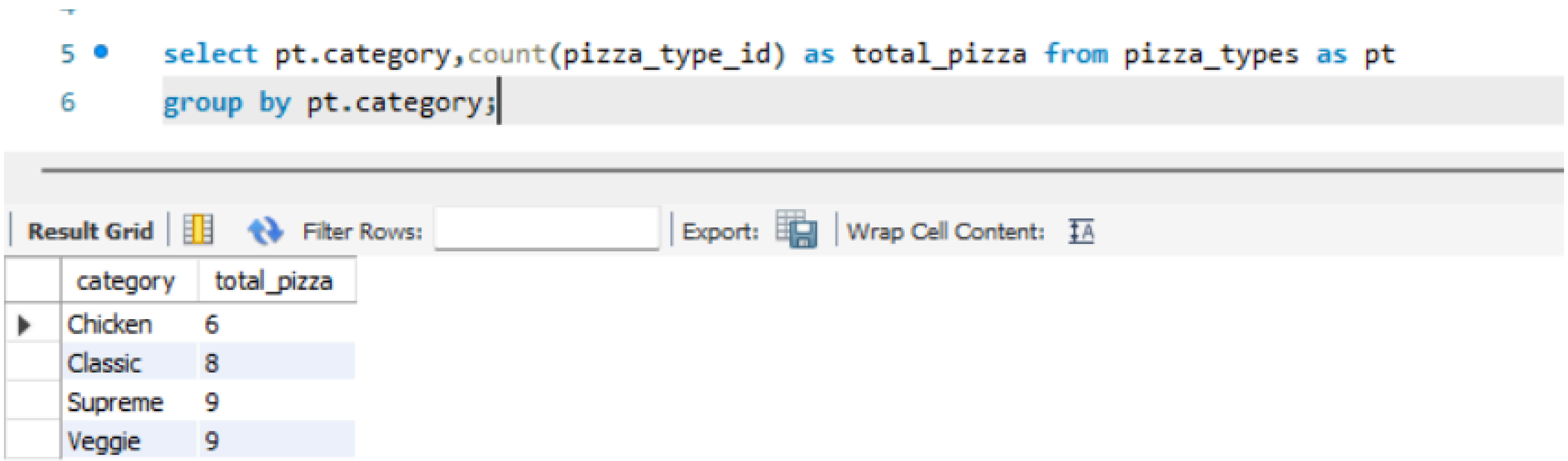
Determine the distribution of orders by hour of the day



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

hours	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

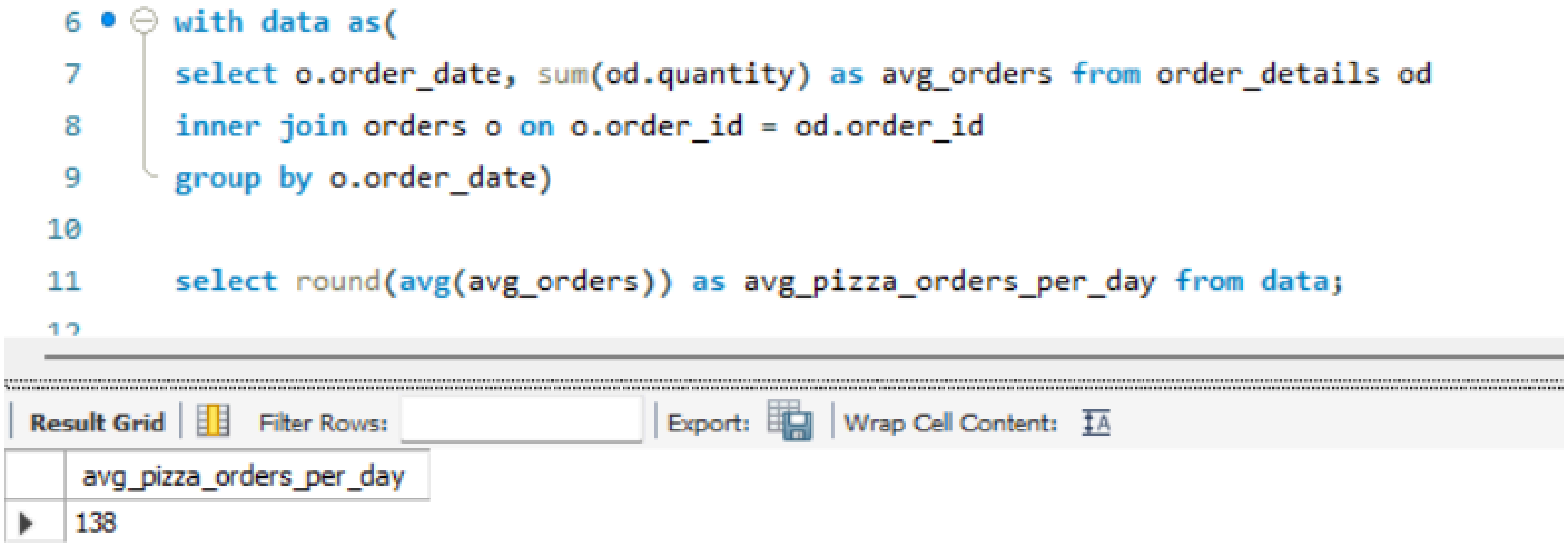
Join relevant tables to find the category-wise distribution of pizzas



```
select pt.category,count(pizza_type_id) as total_pizza from pizza_types as pt
group by pt.category;
```

category	total_pizza
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

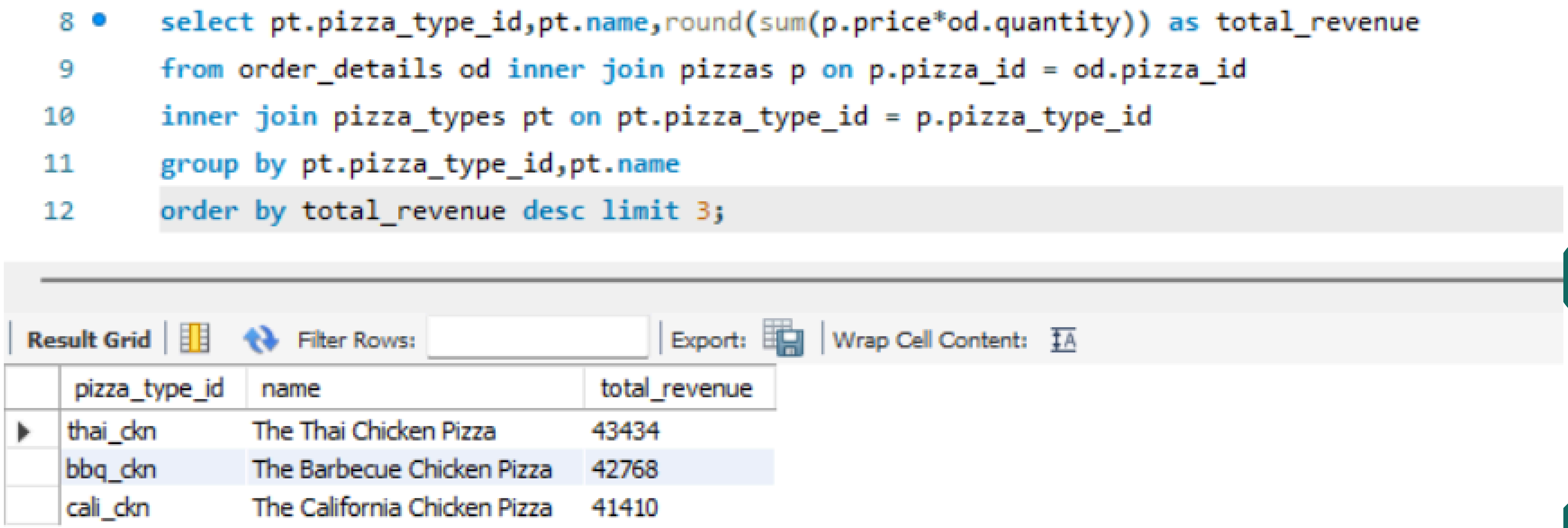


```sql
with data as(
select o.order_date, sum(od.quantity) as avg_orders from order_details od
inner join orders o on o.order_id = od.order_id
group by o.order_date)

select round(avg(avg_orders)) as avg_pizza_orders_per_day from data;
```

```
avg_pizza_orders_per_day
138
```

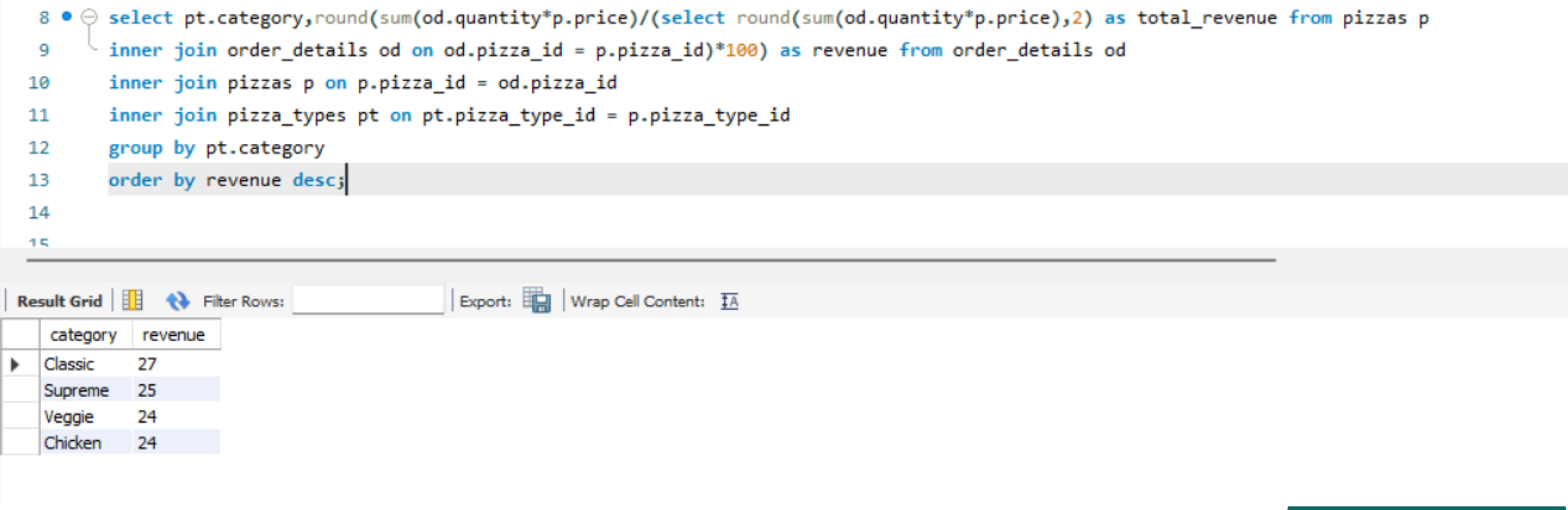
Determine the top 3 most ordered pizza types based on revenue



```sql
select pt.pizza_type_id,pt.name,round(sum(p.price*od.quantity)) as total_revenue
from order_details od inner join pizzas p on p.pizza_id = od.pizza_id
inner join pizza_types pt on pt.pizza_type_id = p.pizza_type_id
group by pt.pizza_type_id,pt.name
order by total_revenue desc limit 3;
```

pizza_type_id	name	total_revenue
thai_ckn	The Thai Chicken Pizza	43434
bbq_ckn	The Barbecue Chicken Pizza	42768
cali_ckn	The California Chicken Pizza	41410

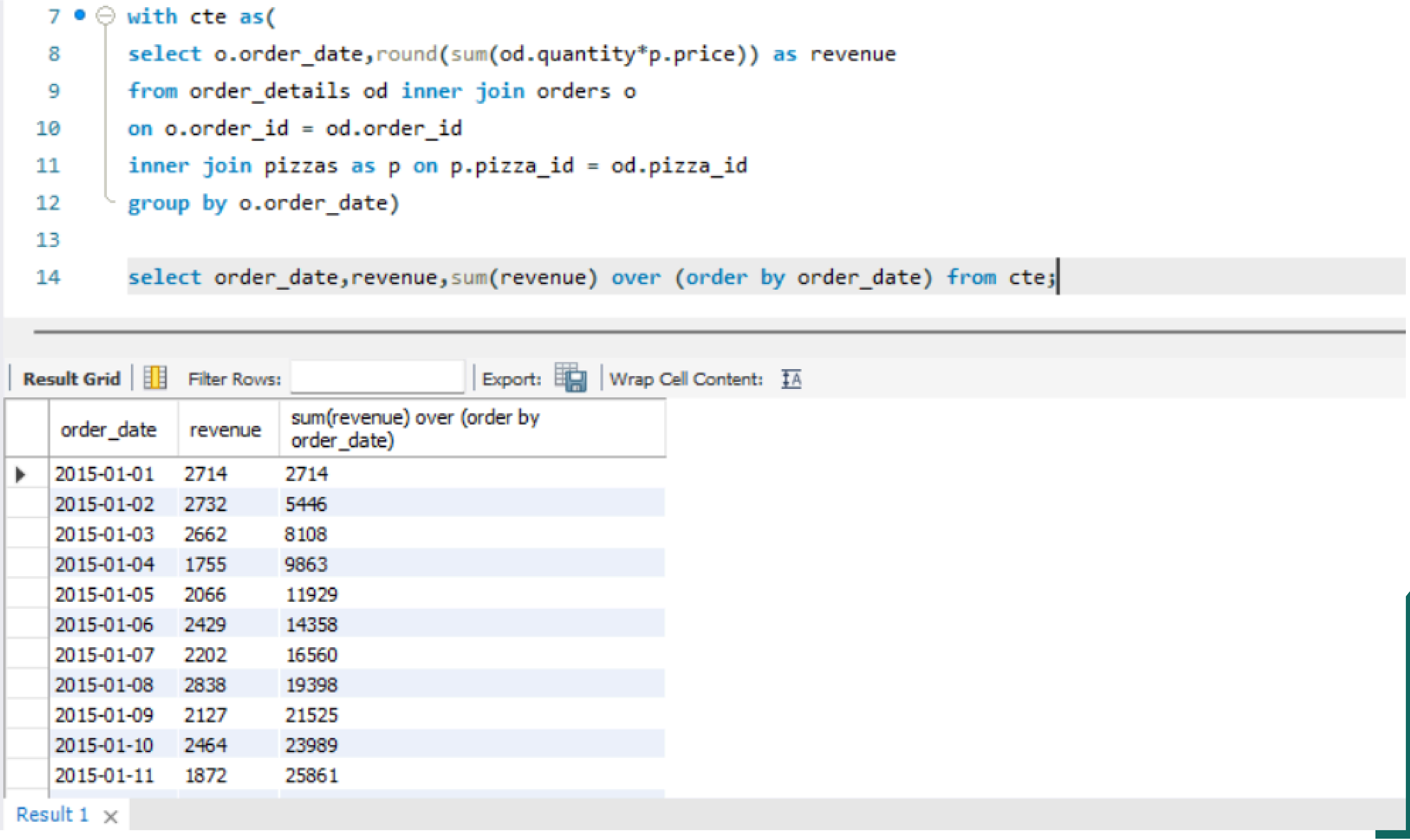
Calculate the percentage contribution of each pizza type to total revenue



```sql
select pt.category,round(sum(od.quantity*p.price)/(select round(sum(od.quantity*p.price),2) as total_revenue from pizzas p
inner join order_details od on od.pizza_id = p.pizza_id)*100) as revenue from order_details od
inner join pizzas p on p.pizza_id = od.pizza_id
inner join pizza_types pt on pt.pizza_type_id = p.pizza_type_id
group by pt.category
order by revenue desc;
```

category	revenue
Classic	27
Supreme	25
Veggie	24
Chicken	24

Analyze the cumulative revenue generated over time

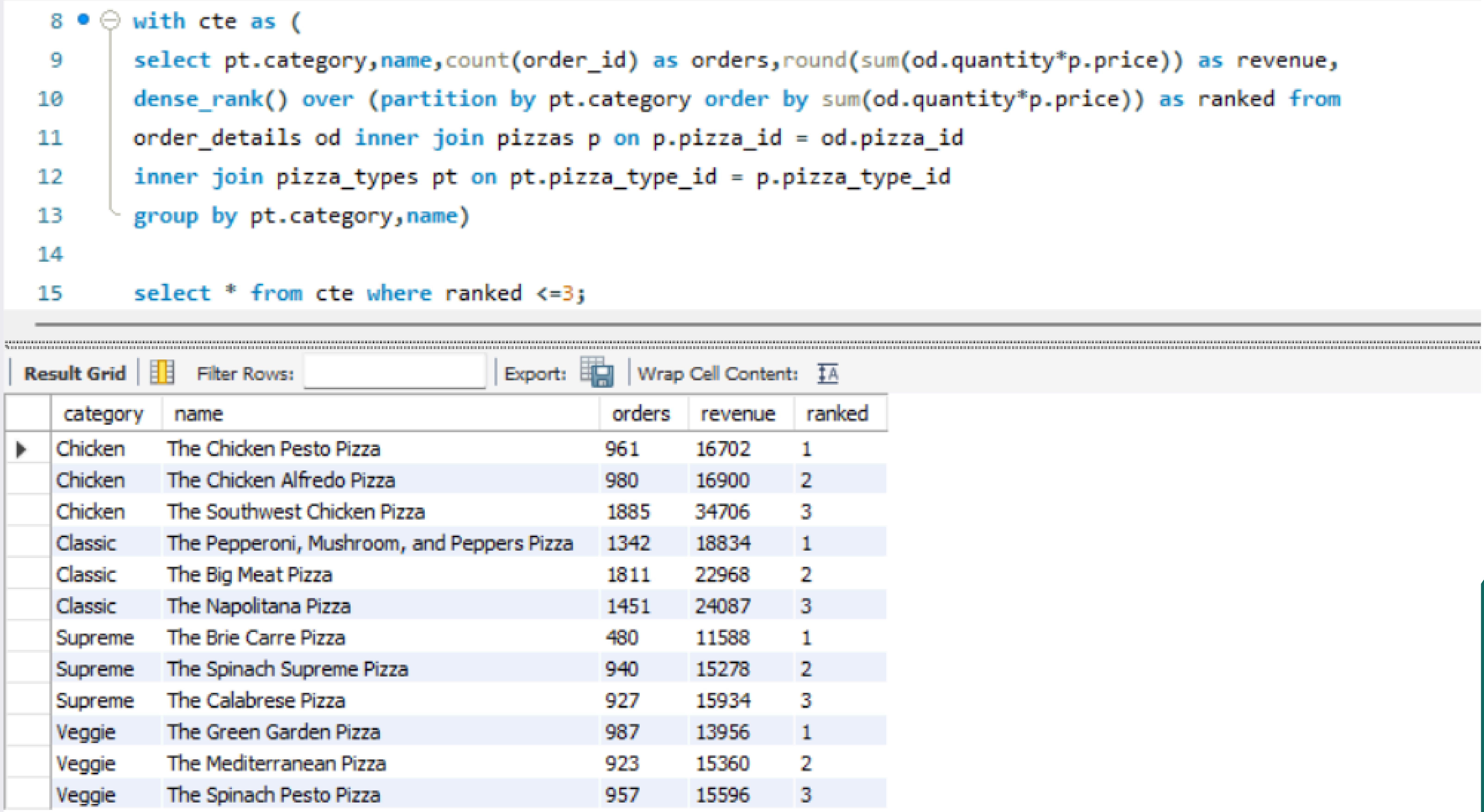


```sql
with cte as(
select o.order_date,round(sum(od.quantity*p.price)) as revenue
from order_details od inner join orders o
on o.order_id = od.order_id
inner join pizzas as p on p.pizza_id = od.pizza_id
group by o.order_date)

select order_date,revenue,sum(revenue) over (order by order_date) from cte;
```

order_date	revenue	sum(revenue) over (order by order_date)
2015-01-01	2714	2714
2015-01-02	2732	5446
2015-01-03	2662	8108
2015-01-04	1755	9863
2015-01-05	2066	11929
2015-01-06	2429	14358
2015-01-07	2202	16560
2015-01-08	2838	19398
2015-01-09	2127	21525
2015-01-10	2464	23989
2015-01-11	1872	25861

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



```sql
with cte as (
select pt.category,name,count(order_id) as orders,round(sum(od.quantity*p.price)) as revenue,
dense_rank() over (partition by pt.category order by sum(od.quantity*p.price)) as ranked from
order_details od inner join pizzas p on p.pizza_id = od.pizza_id
inner join pizza_types pt on pt.pizza_type_id = p.pizza_type_id
group by pt.category,name)

select * from cte where ranked <=3;
```

category	name	orders	revenue	ranked
Chicken	The Chicken Pesto Pizza	961	16702	1
Chicken	The Chicken Alfredo Pizza	980	16900	2
Chicken	The Southwest Chicken Pizza	1885	34706	3
Classic	The Pepperoni, Mushroom, and Peppers Pizza	1342	18834	1
Classic	The Big Meat Pizza	1811	22968	2
Classic	The Napolitana Pizza	1451	24087	3
Supreme	The Brie Carre Pizza	480	11588	1
Supreme	The Spinach Supreme Pizza	940	15278	2
Supreme	The Calabrese Pizza	927	15934	3
Veggie	The Green Garden Pizza	987	13956	1
Veggie	The Mediterranean Pizza	923	15360	2
Veggie	The Spinach Pesto Pizza	957	15596	3