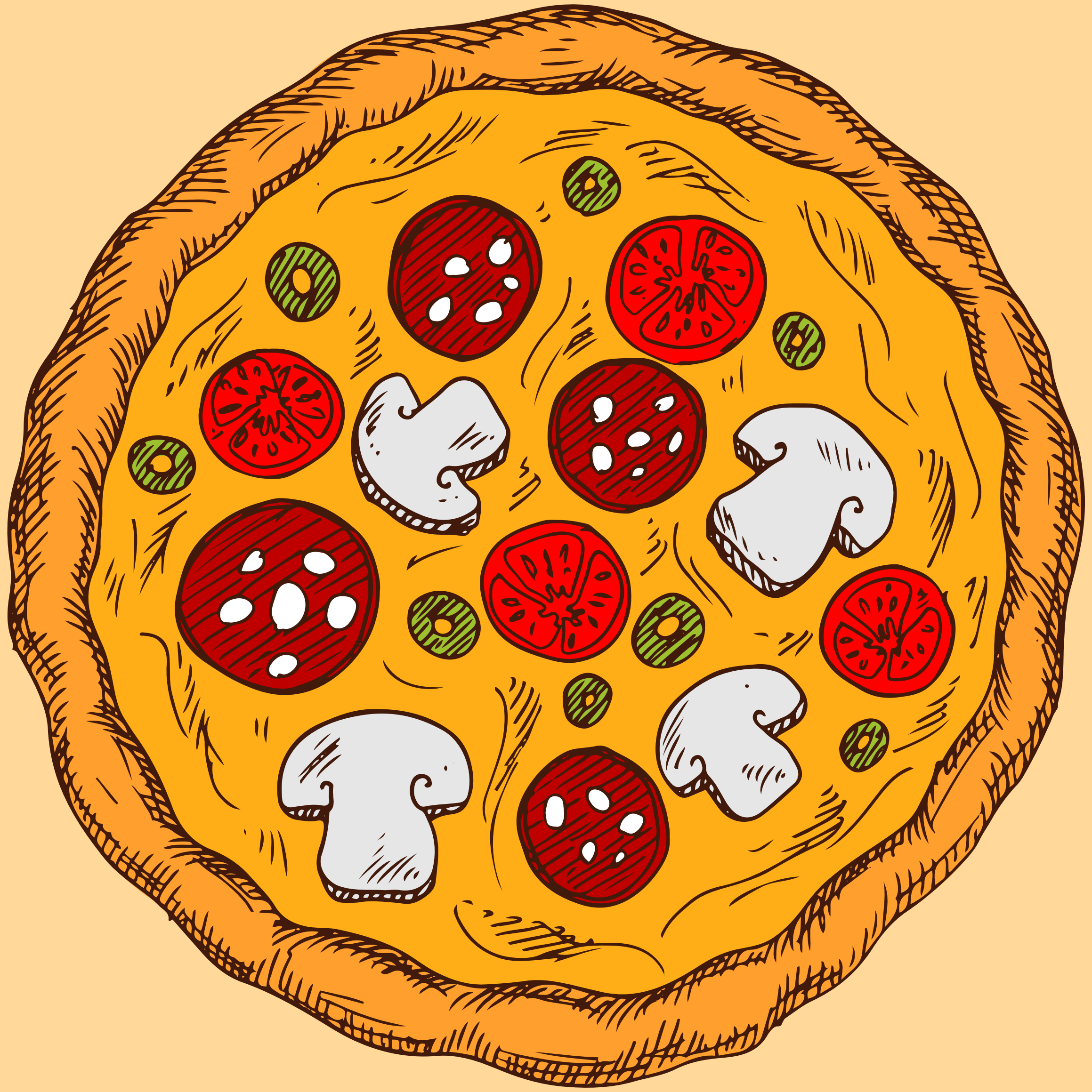


Delicious Pizza for Everyone!

PIZZA SALES

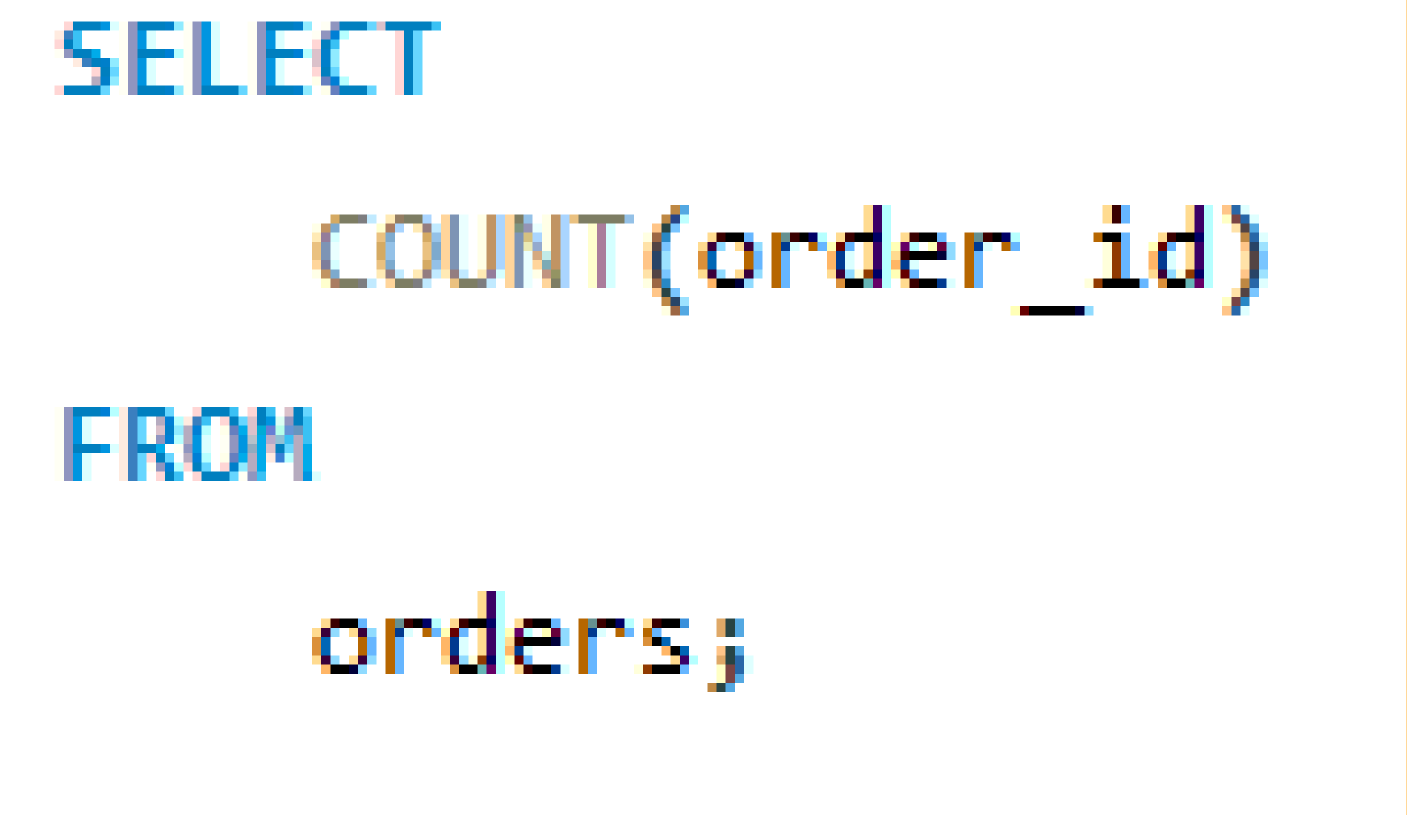
Hello!

My name is Priyanshu Rajora and in this project I have utilize SQL queries to solve problems related to pizza sales using the given dataset.

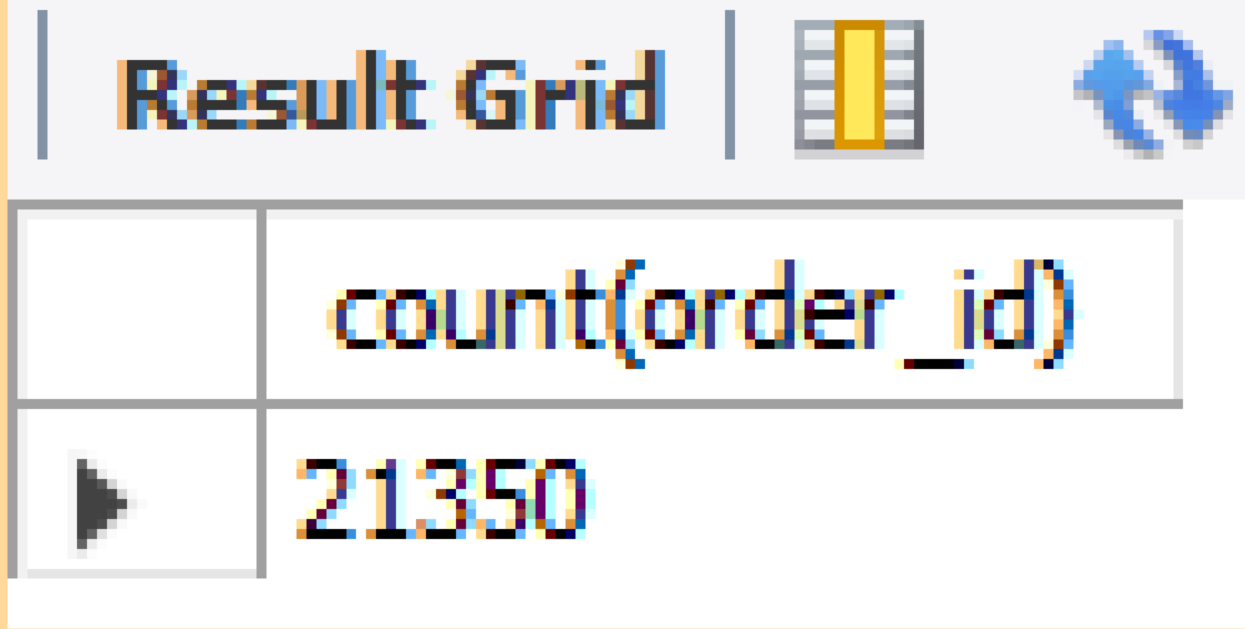
Some of the problem statements

- 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.
- 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.

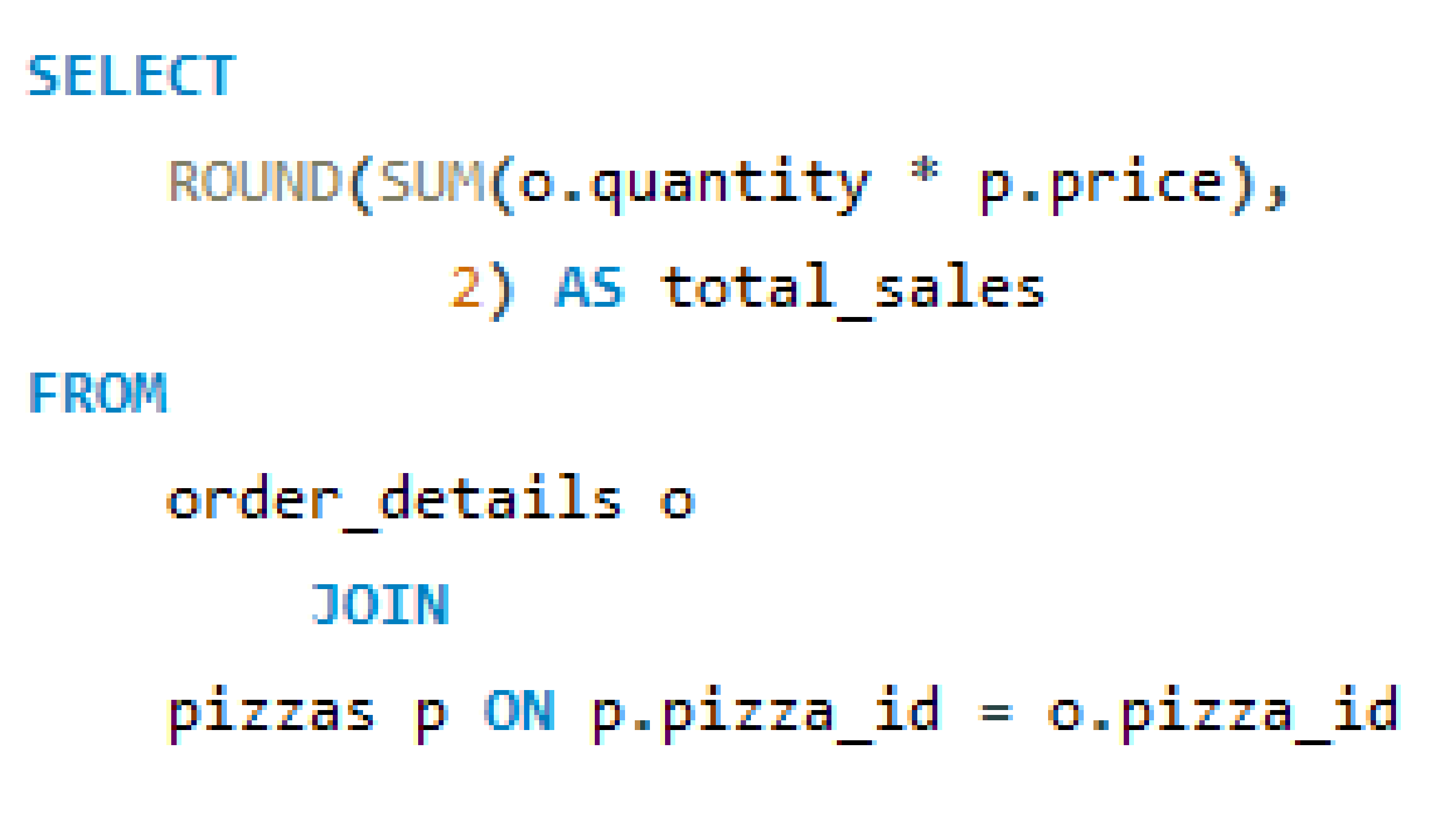


```
SELECT
    COUNT(order_id)
FROM
    orders;
```

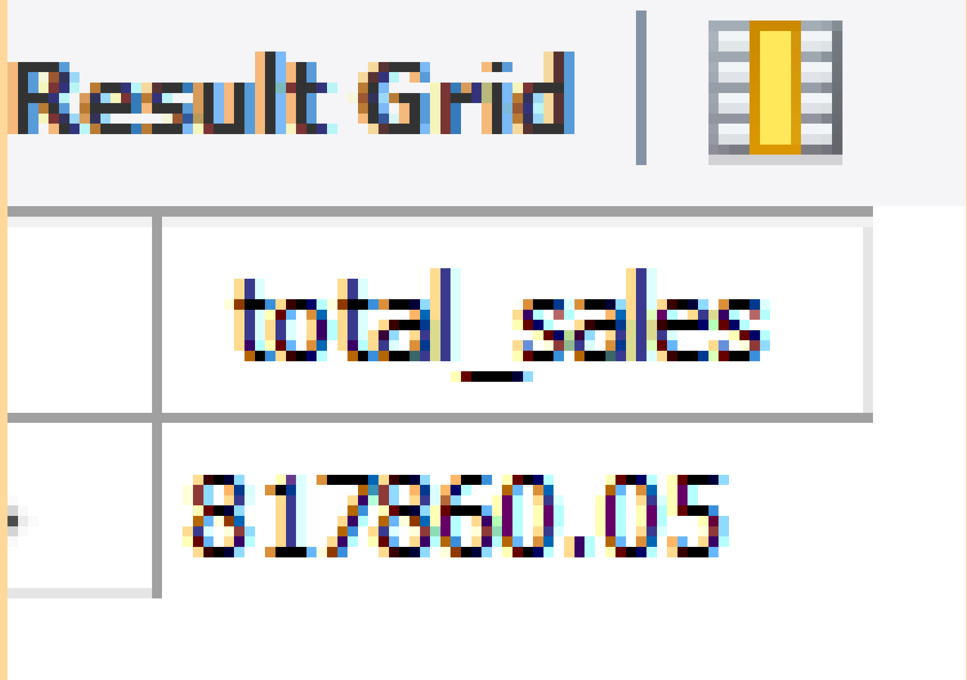


```
  | count(order_id)
▶ | 21350
```

Calculate the total revenue generated from pizza sales.

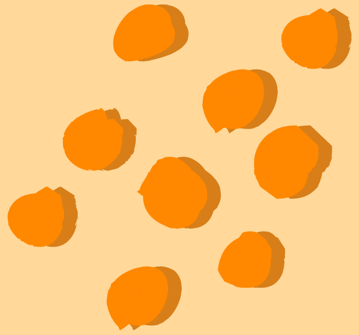


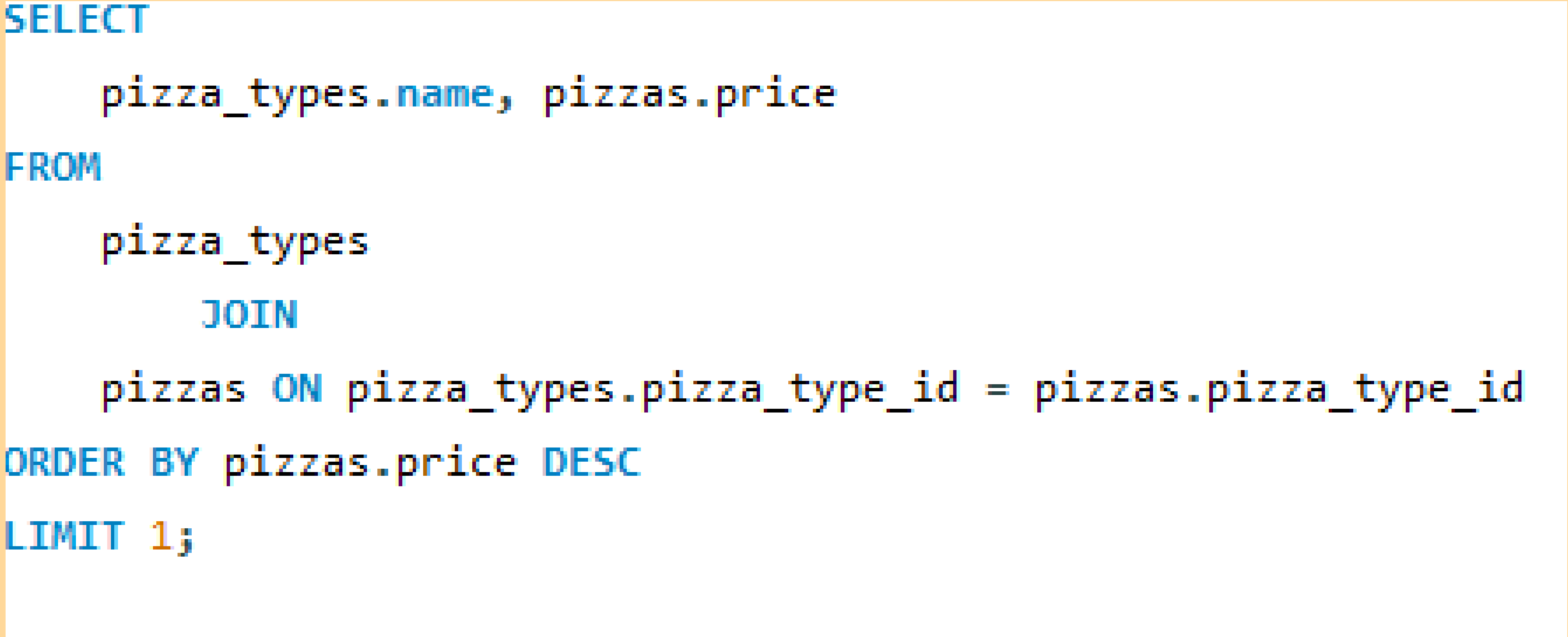
```
SELECT
    ROUND(SUM(o.quantity * p.price),
            2) AS total_sales
FROM
    order_details o
        JOIN
    pizzas p ON p.pizza_id = o.pizza_id
```



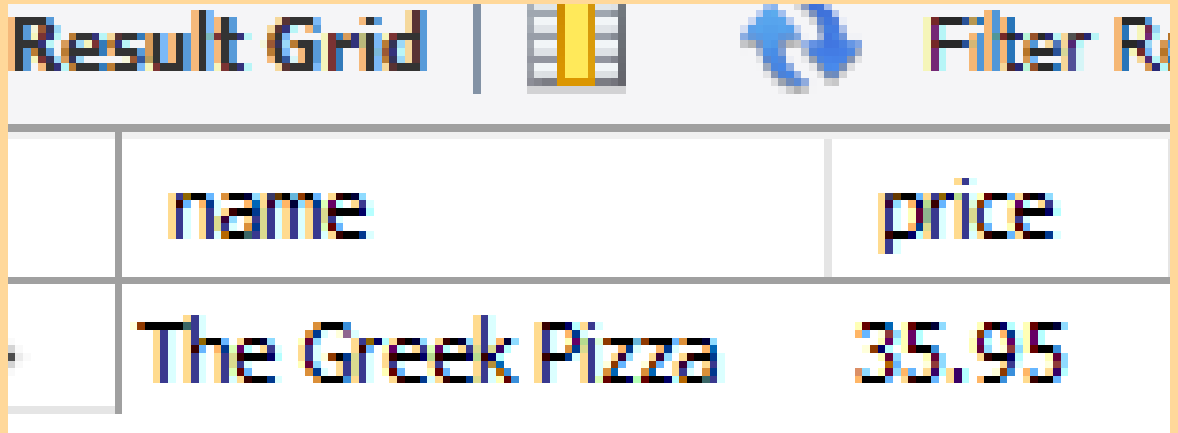
total_sales
817860.05

Identify the highest-priced pizzas.



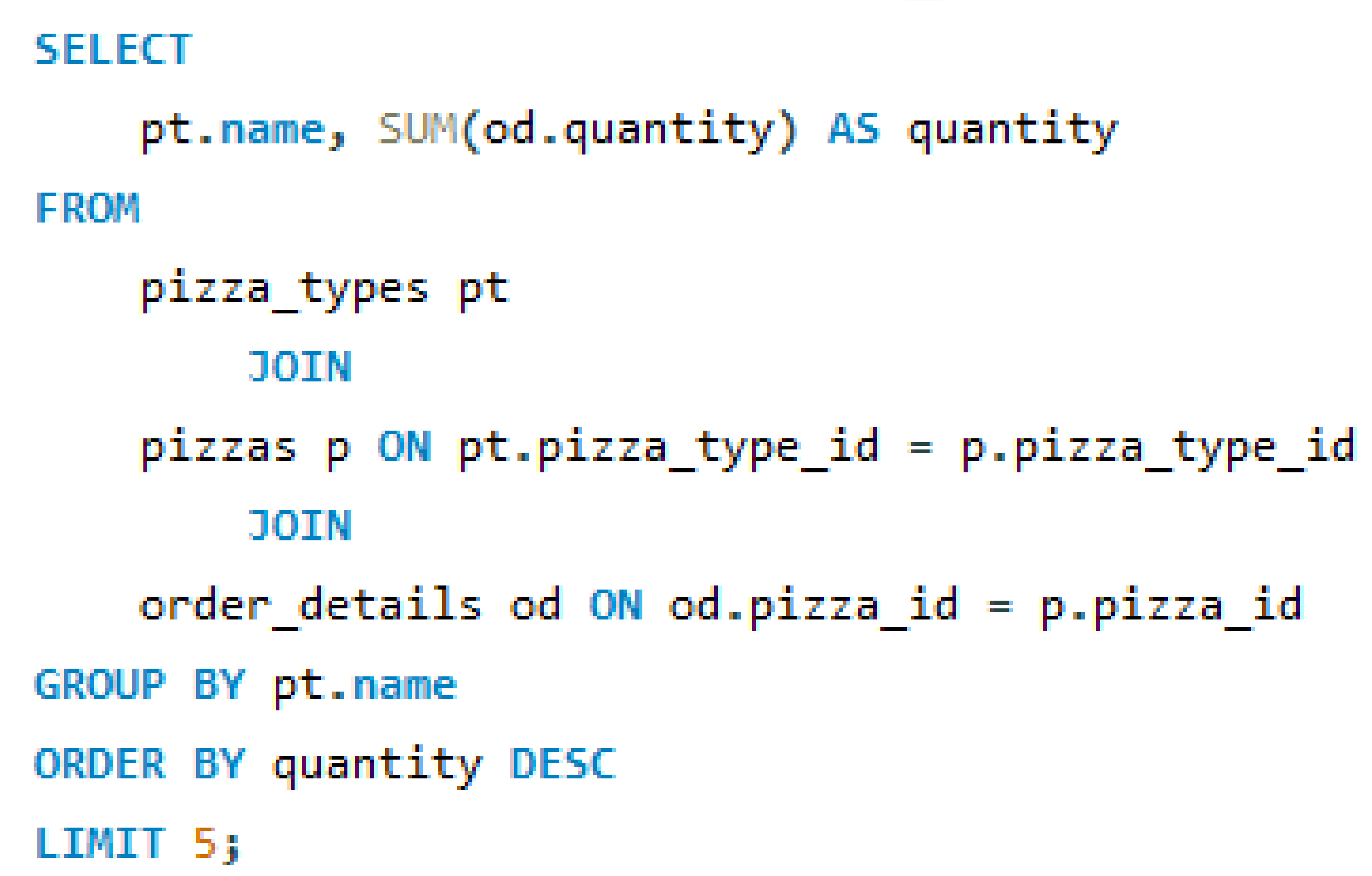


```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

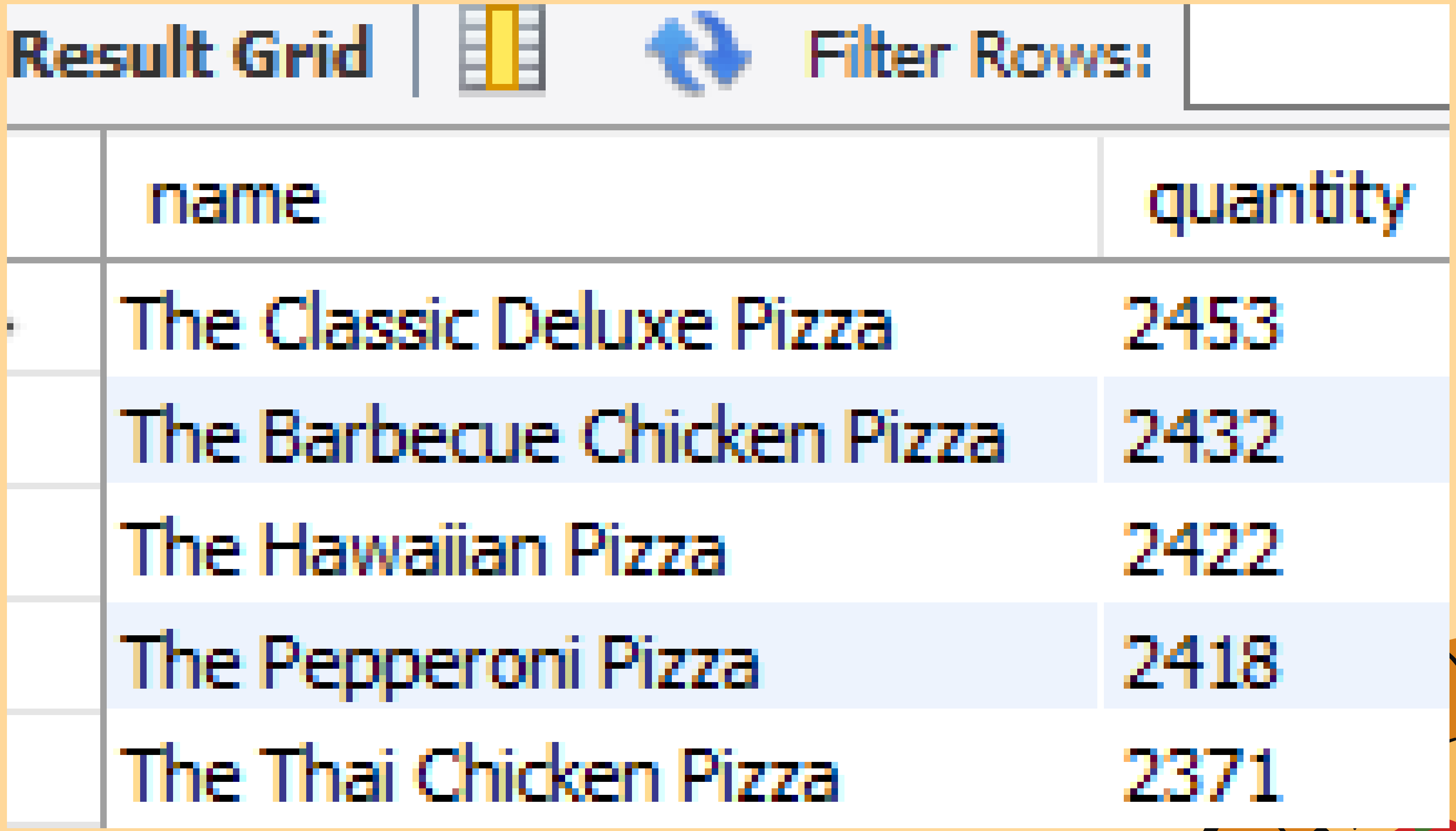


name	price
The Greek Pizza	35.95

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

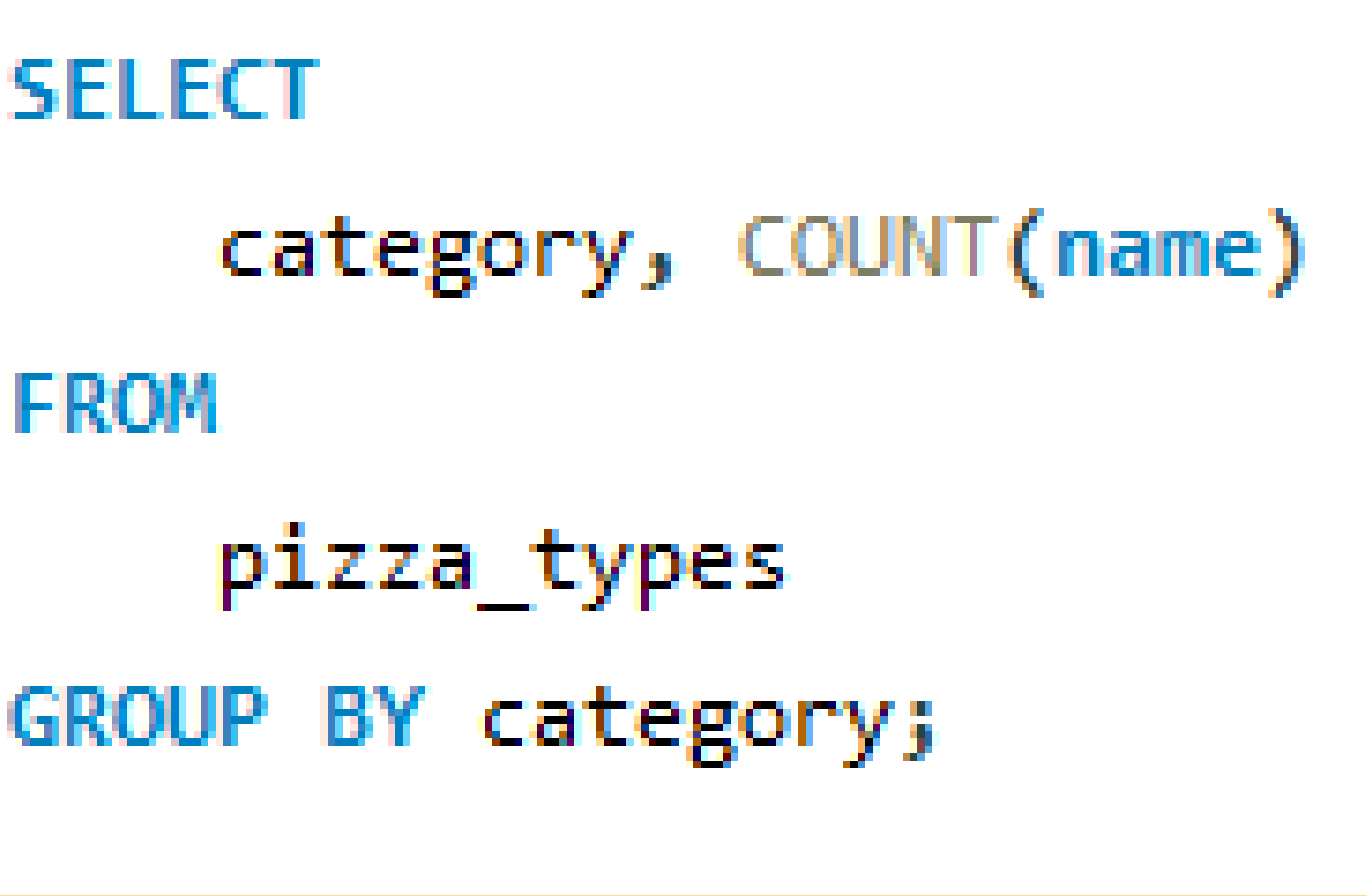


```
SELECT
    pt.name, SUM(od.quantity) AS quantity
FROM
    pizza_types pt
        JOIN
    pizzas p ON pt.pizza_type_id = p.pizza_type_id
        JOIN
    order_details od ON od.pizza_id = p.pizza_id
GROUP BY pt.name
ORDER BY quantity DESC
LIMIT 5;
```

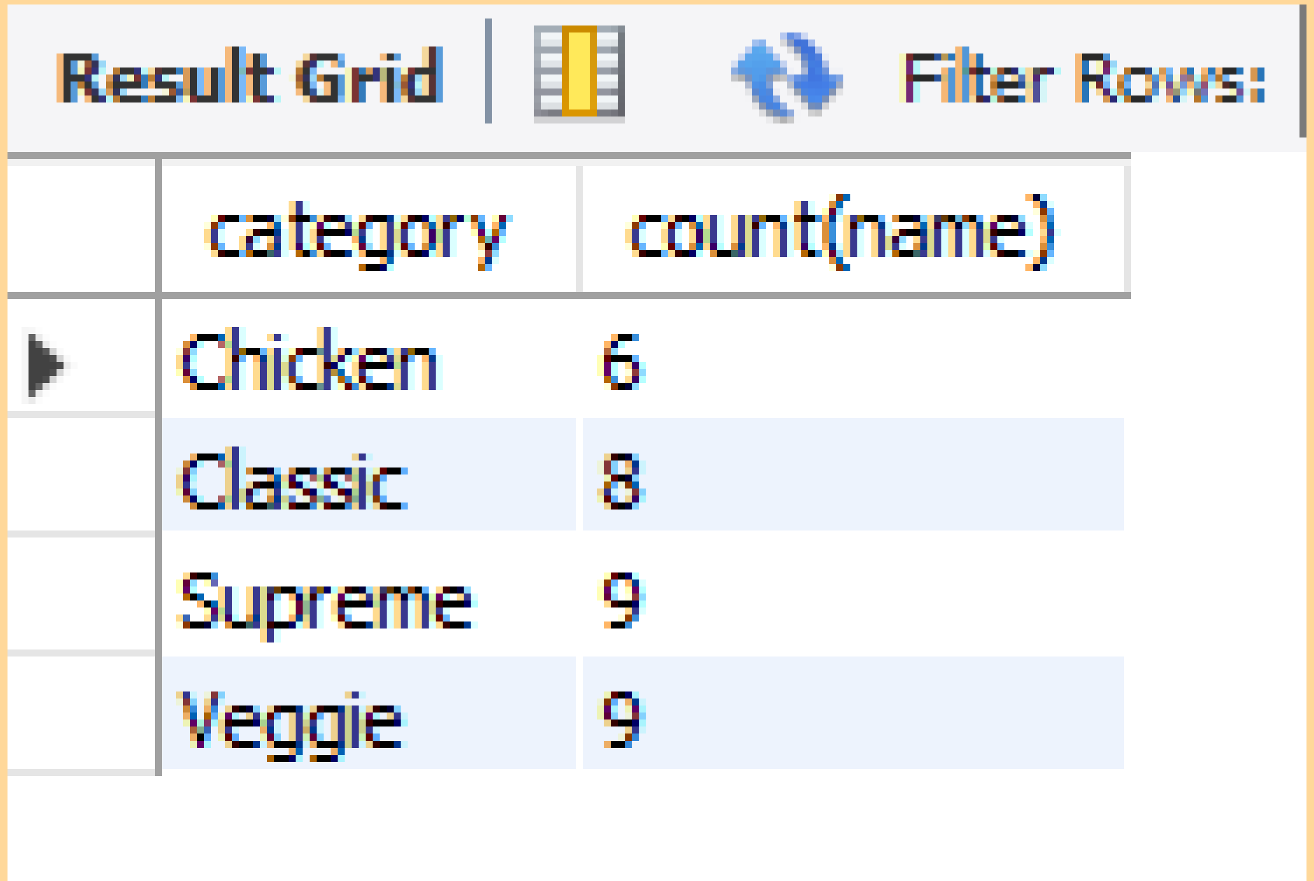


name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

Find categories wise distribution of pizzaas.

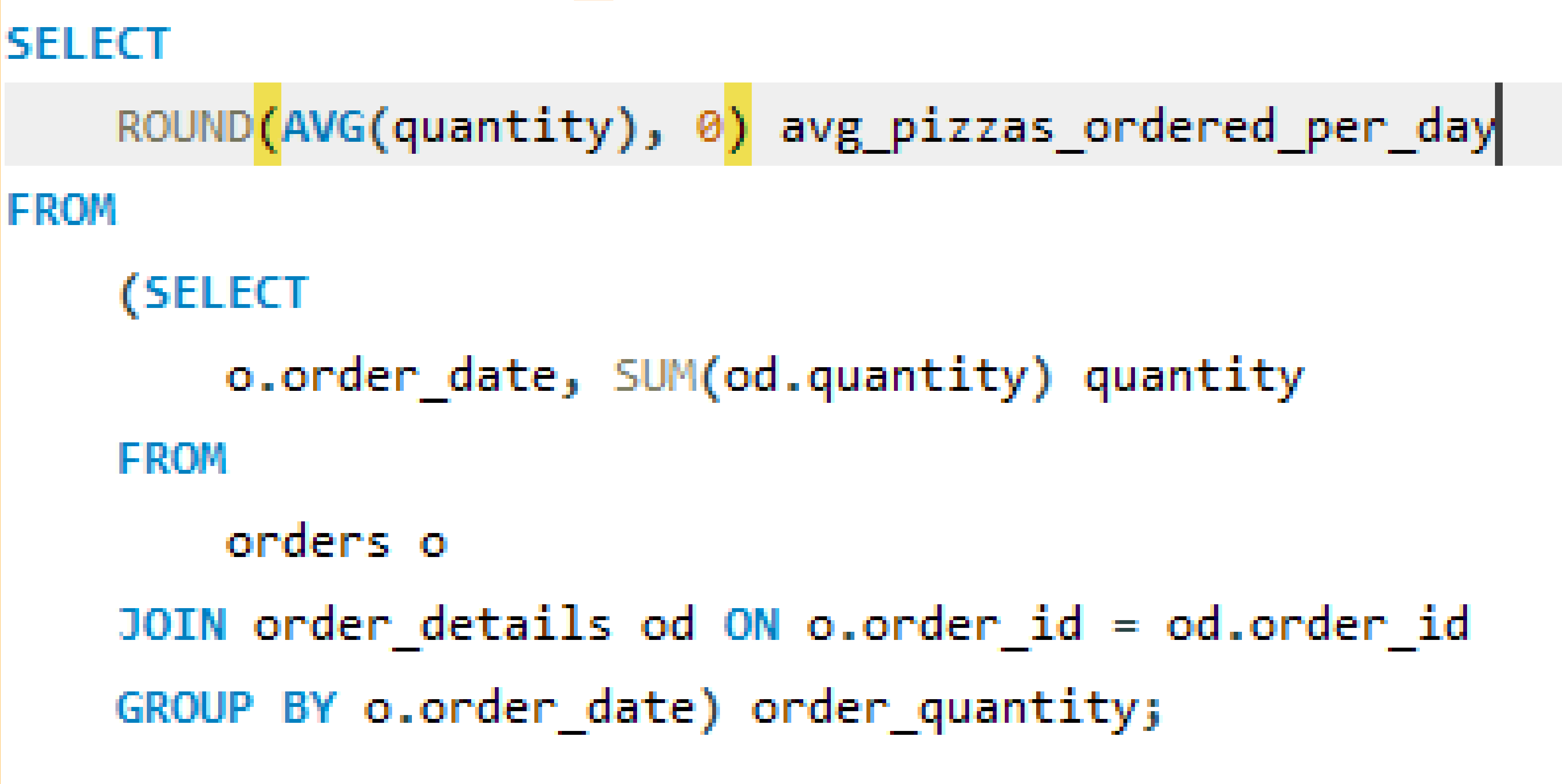


```
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category;
```

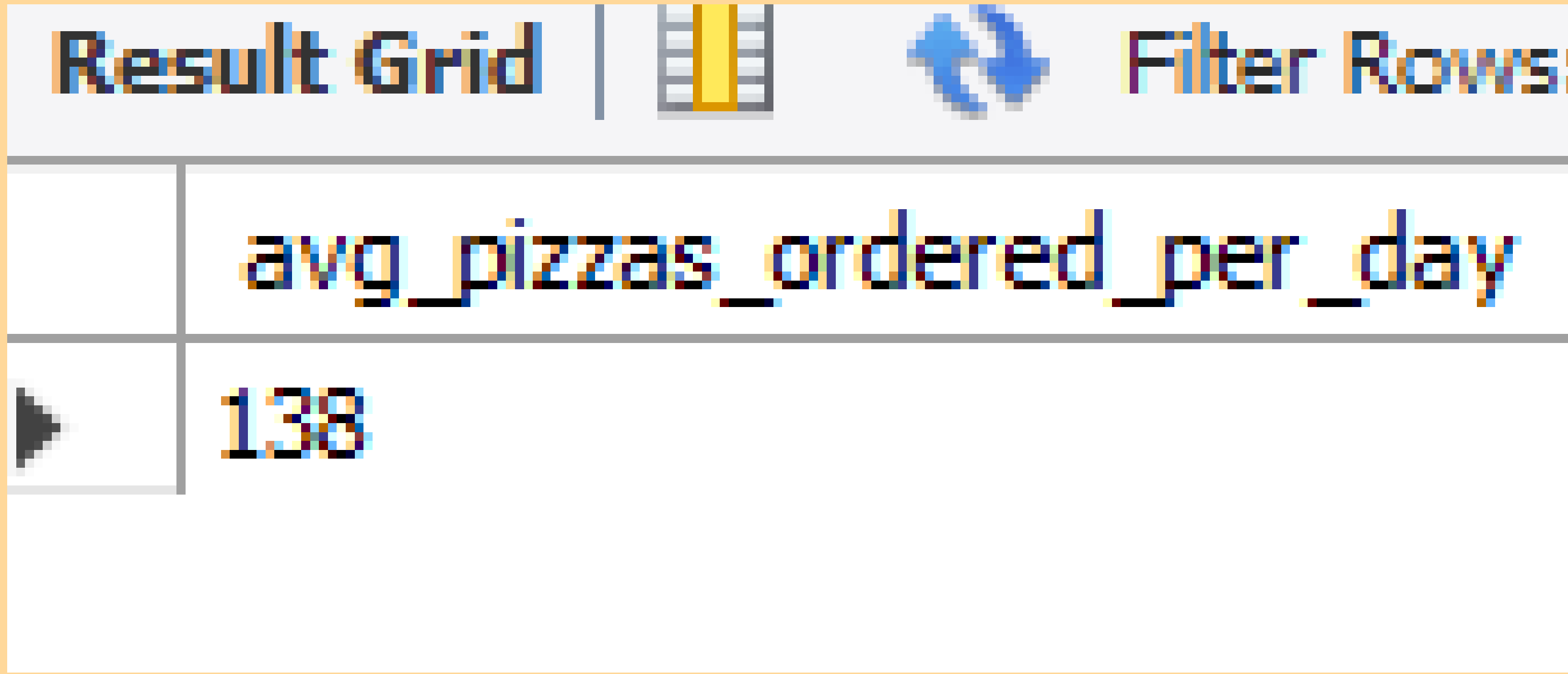


category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9

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

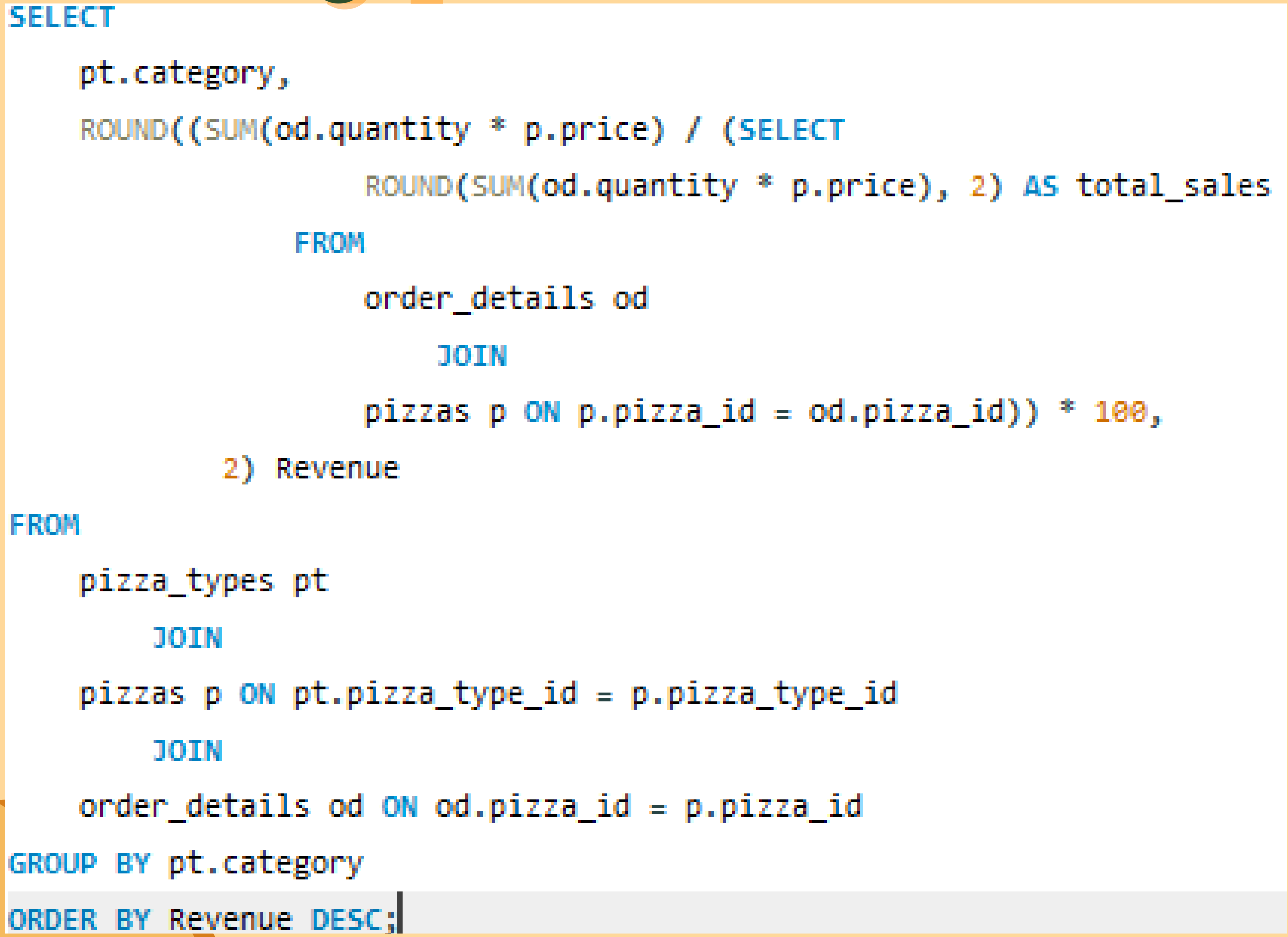


```
SELECT
    ROUND(AVG(quantity), 0) avg_pizzas_ordered_per_day
FROM
    (SELECT
        o.order_date, SUM(od.quantity) quantity
    FROM
        orders o
    JOIN order_details od ON o.order_id = od.order_id
    GROUP BY o.order_date) order_quantity;
```

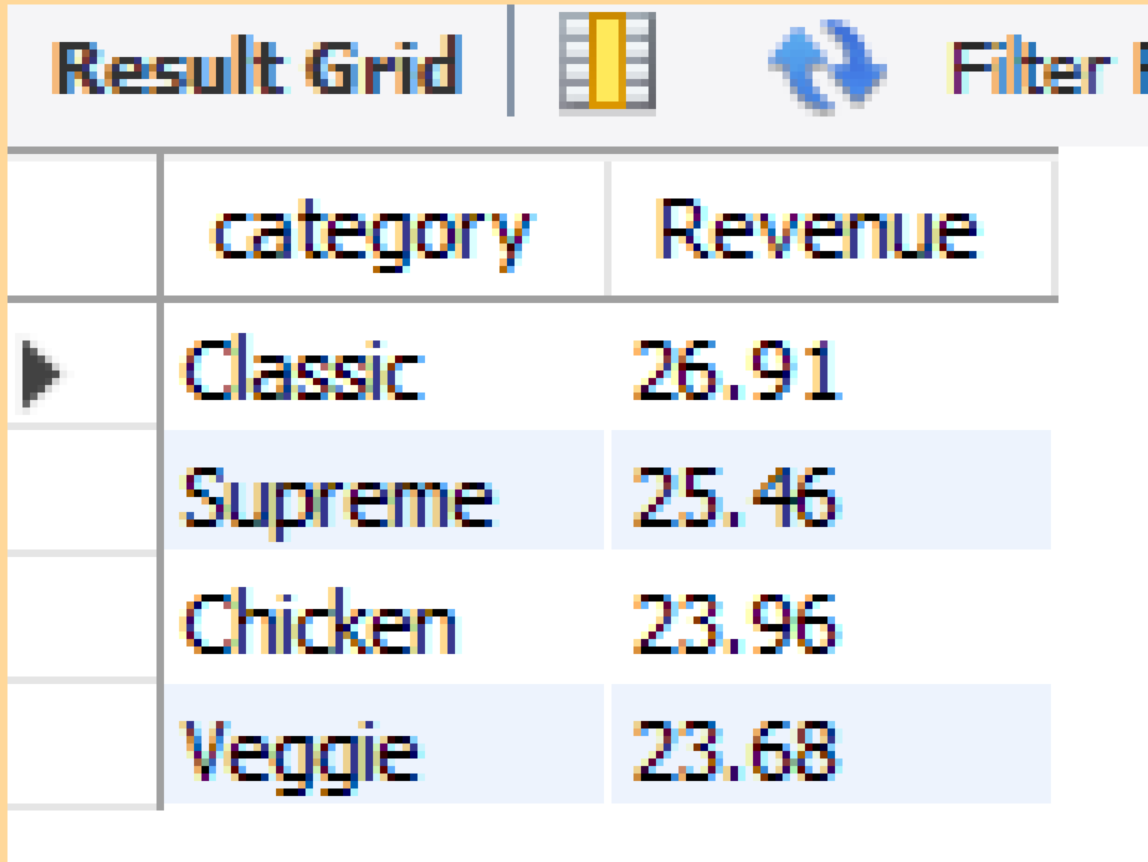


```
avg_pizzas_ordered_per_day
138
```

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

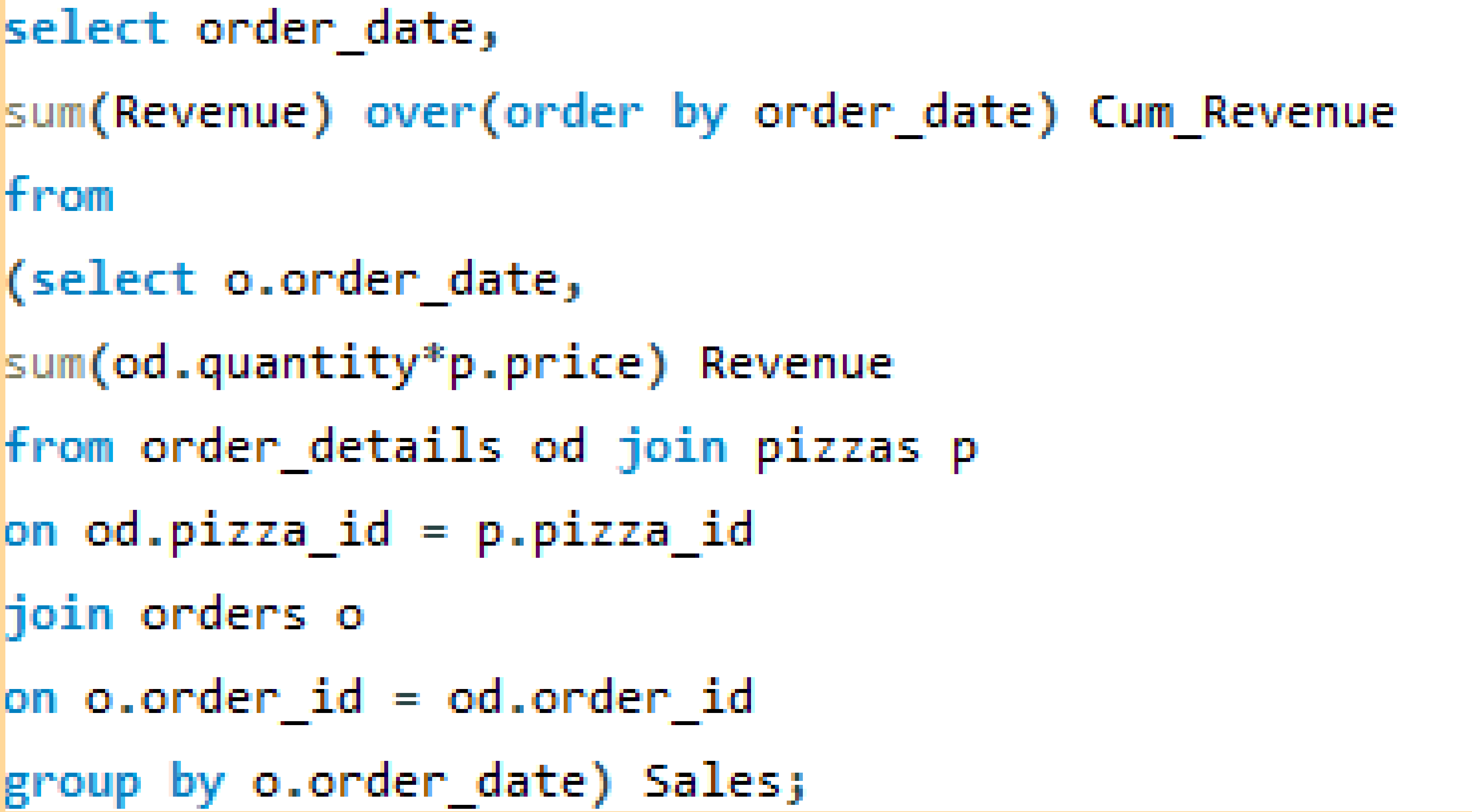


```
SELECT
    pt.category,
    ROUND((SUM(od.quantity * p.price) / (SELECT
                ROUND(SUM(od.quantity * p.price), 2) AS total_sales
            FROM
                order_details od
                    JOIN
                pizzas p ON p.pizza_id = od.pizza_id)) * 100,
            2) Revenue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

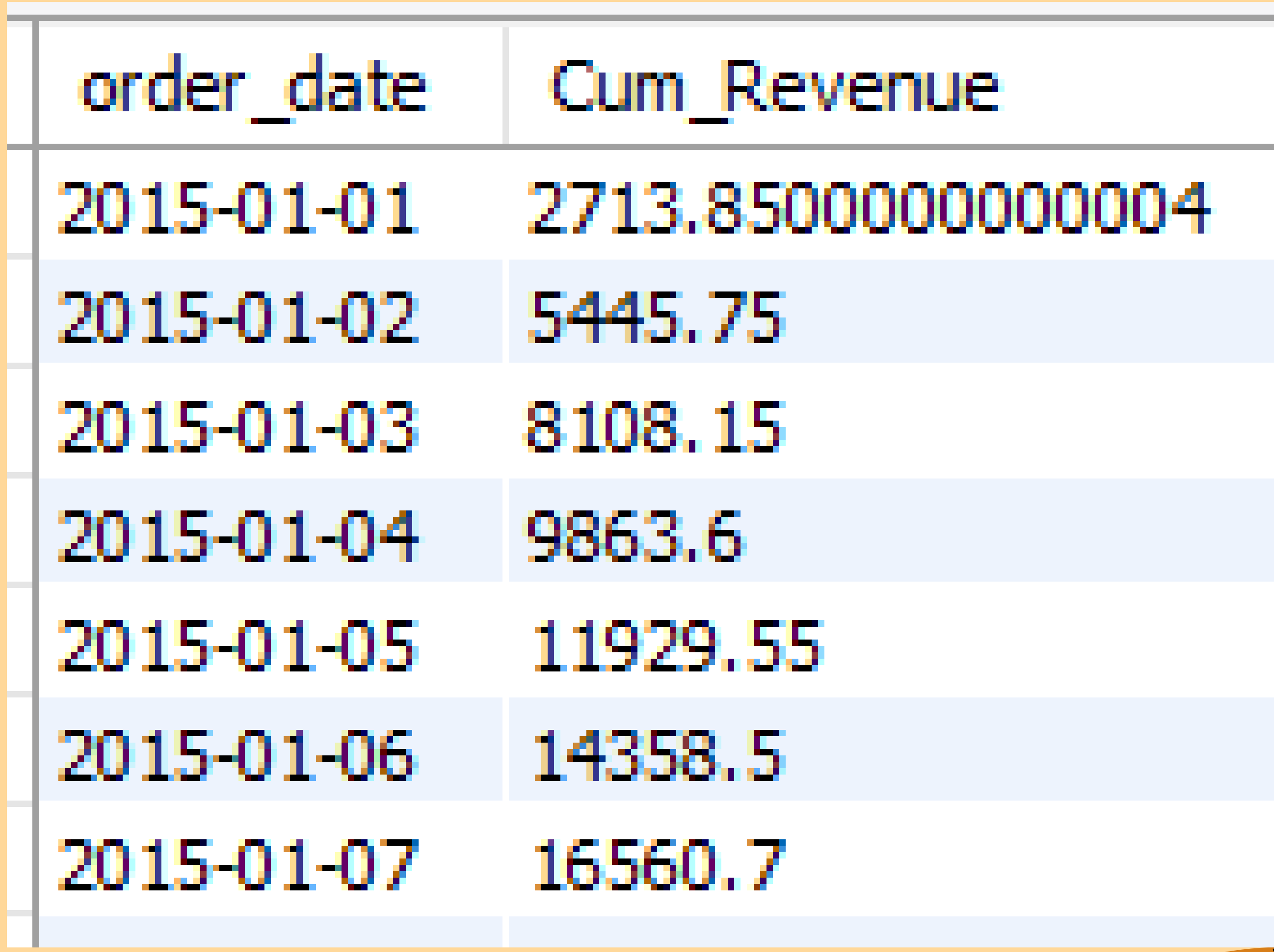


category	Revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68

Comulative revenue genrated over the time.

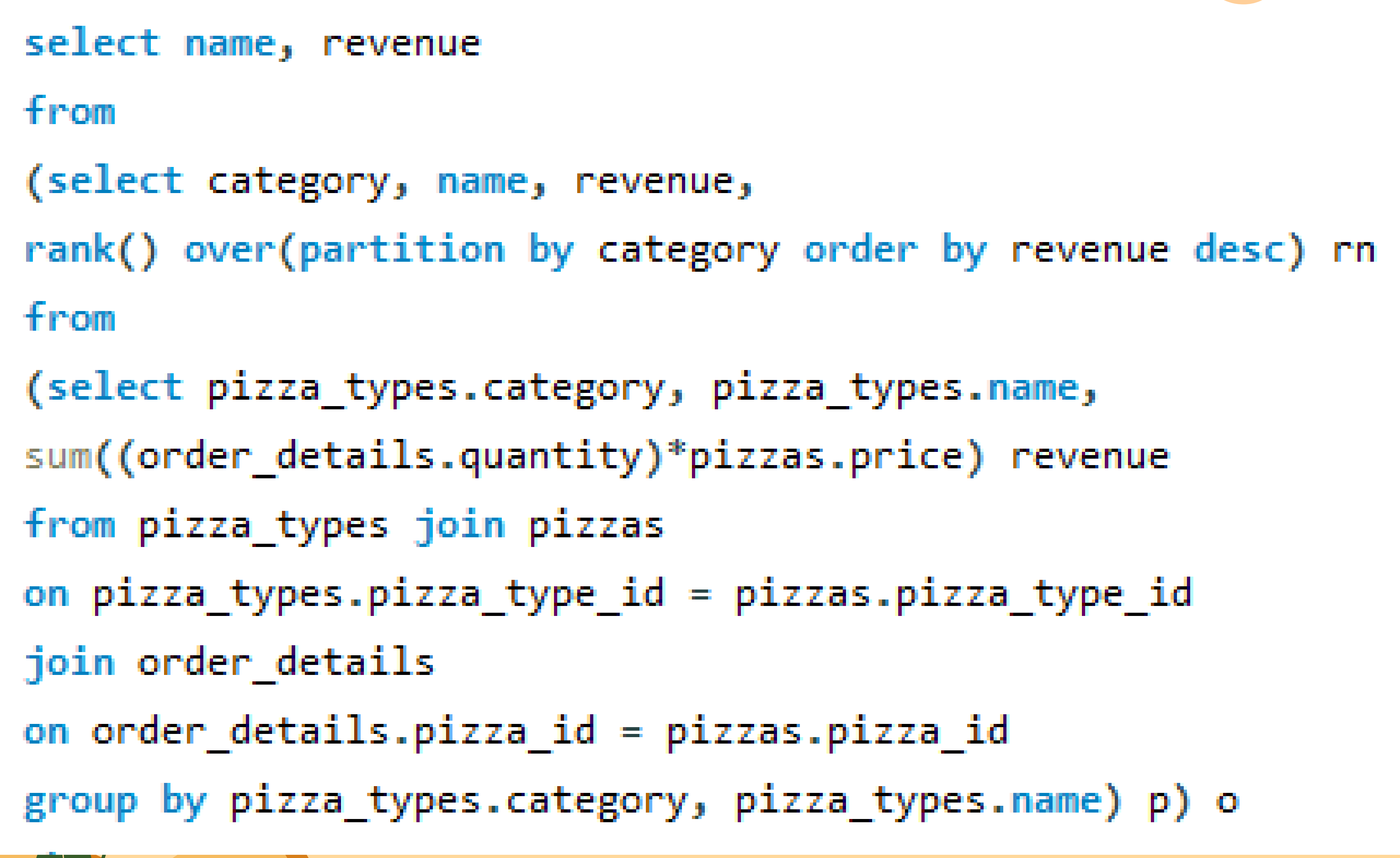


```
select order_date,
sum(Revenue) over(order by order_date) Cum_Revenue
from
(select o.order_date,
sum(od.quantity*p.price) Revenue
from order_details od join pizzas p
on od.pizza_id = p.pizza_id
join orders o
on o.order_id = od.order_id
group by o.order_date) Sales;
```

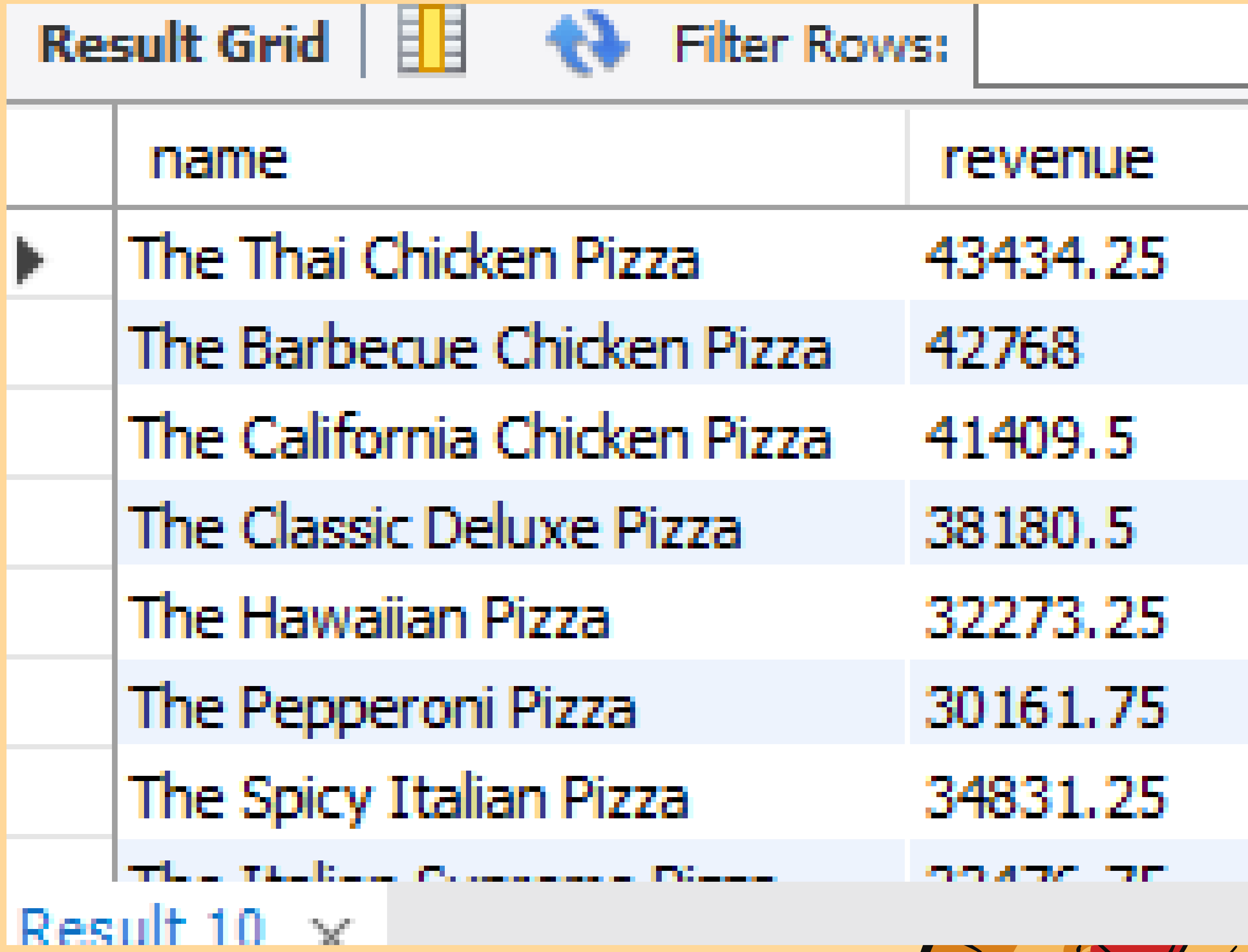


order_date	Cum_Revenue
2015-01-01	2713.8500000000004
2015-01-02	5445.75
2015-01-03	8108.15
2015-01-04	9863.6
2015-01-05	11929.55
2015-01-06	14358.5
2015-01-07	16560.7

Top 3 most ordered pizza types based on revenue for each pizza category.



```
select name, revenue
from
(select category, name, revenue,
rank() over(partition by category order by revenue desc) rn
from
(select pizza_types.category, pizza_types.name,
sum((order_details.quantity)*pizzas.price) 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) p) o
```



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