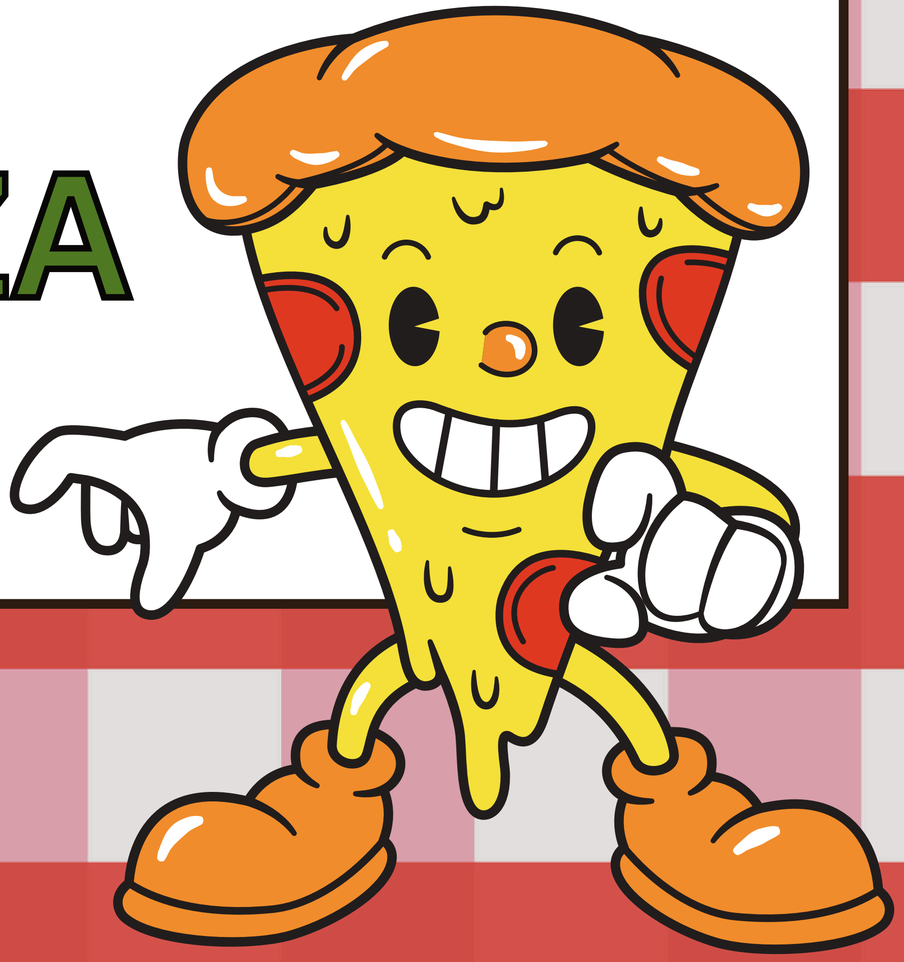
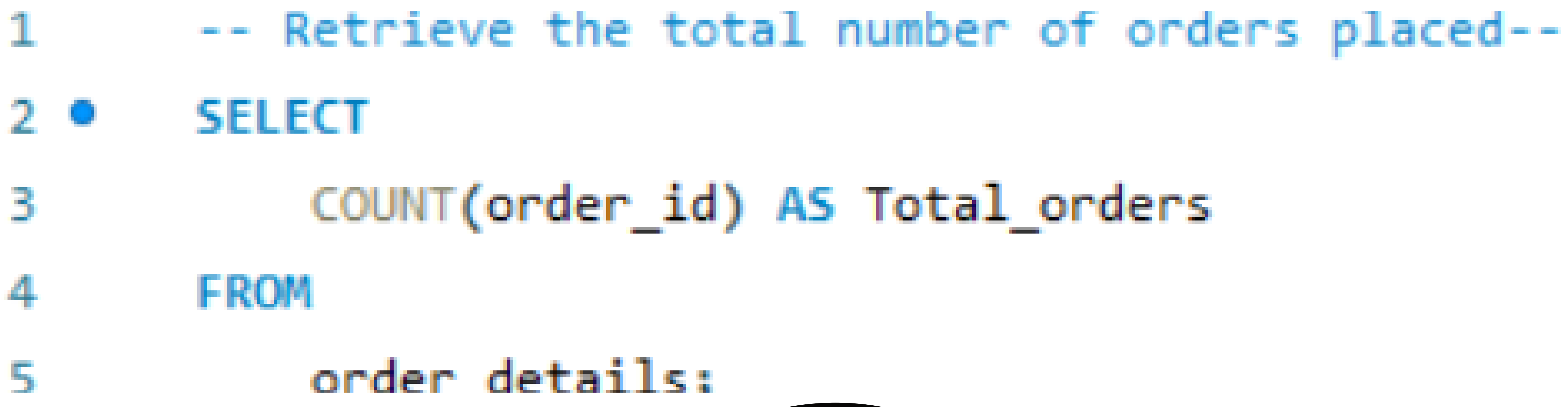
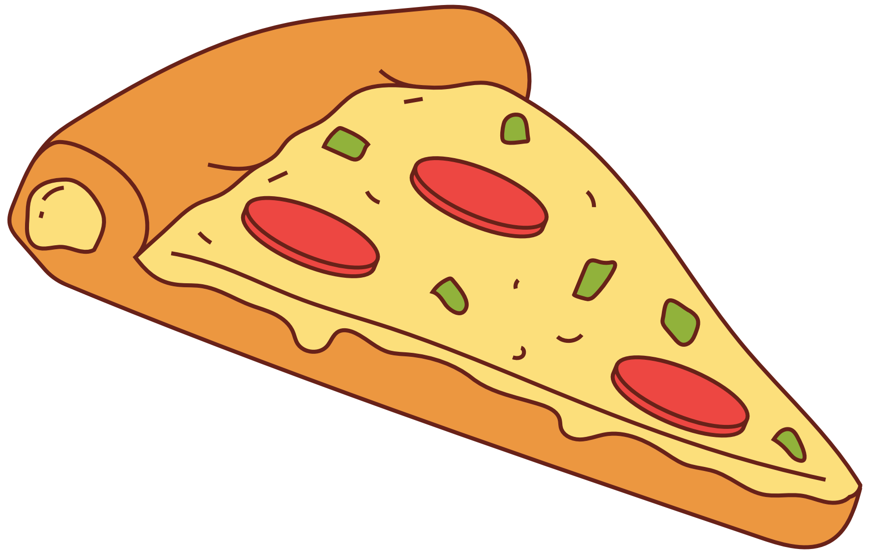
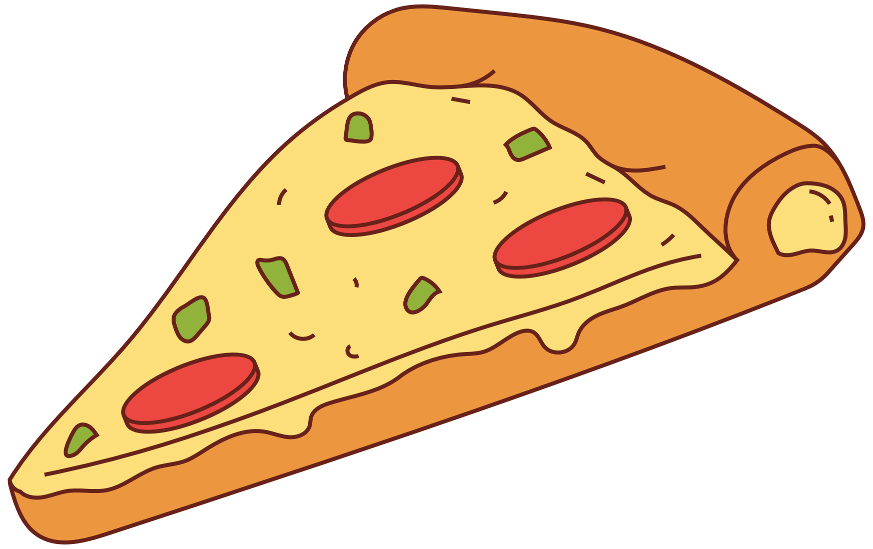
HELLO MY NAME IS UBAID ALI AND IN THIS PROJECT I UTILISED SQL QUERIES TO SOLVE THE QUESTIONS ABOUT THE PIZZA SHOP

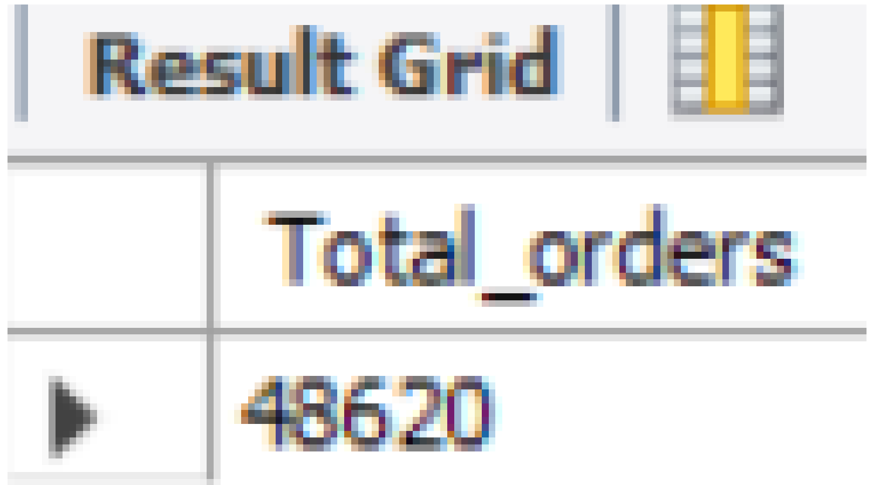




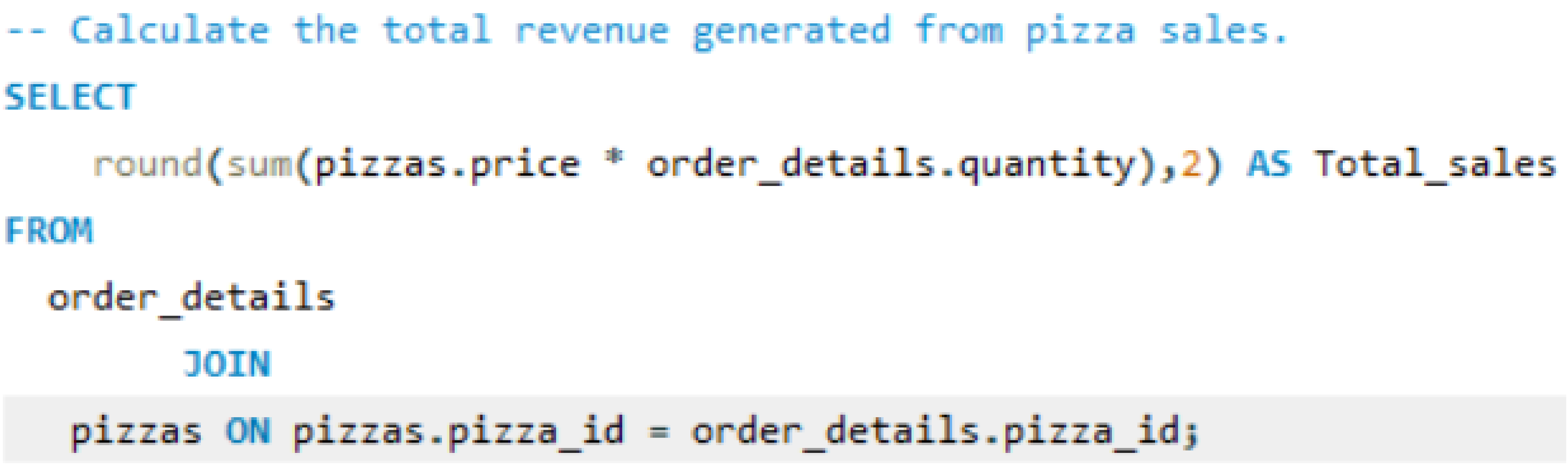
```sql
-- Retrieve the total number of orders placed--
SELECT
    COUNT(order_id) AS Total_orders
FROM
    order_details;
```



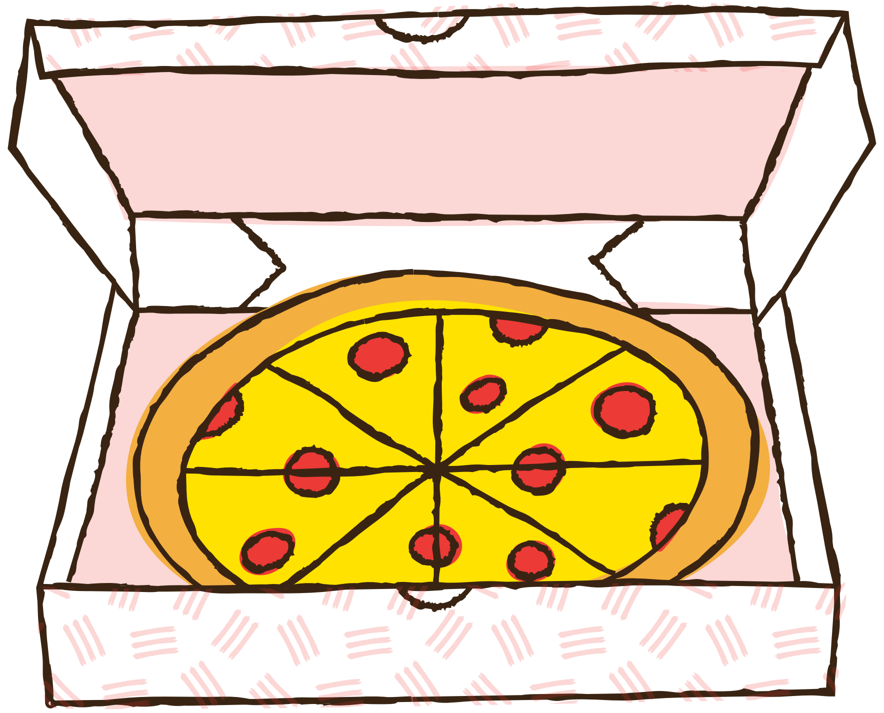


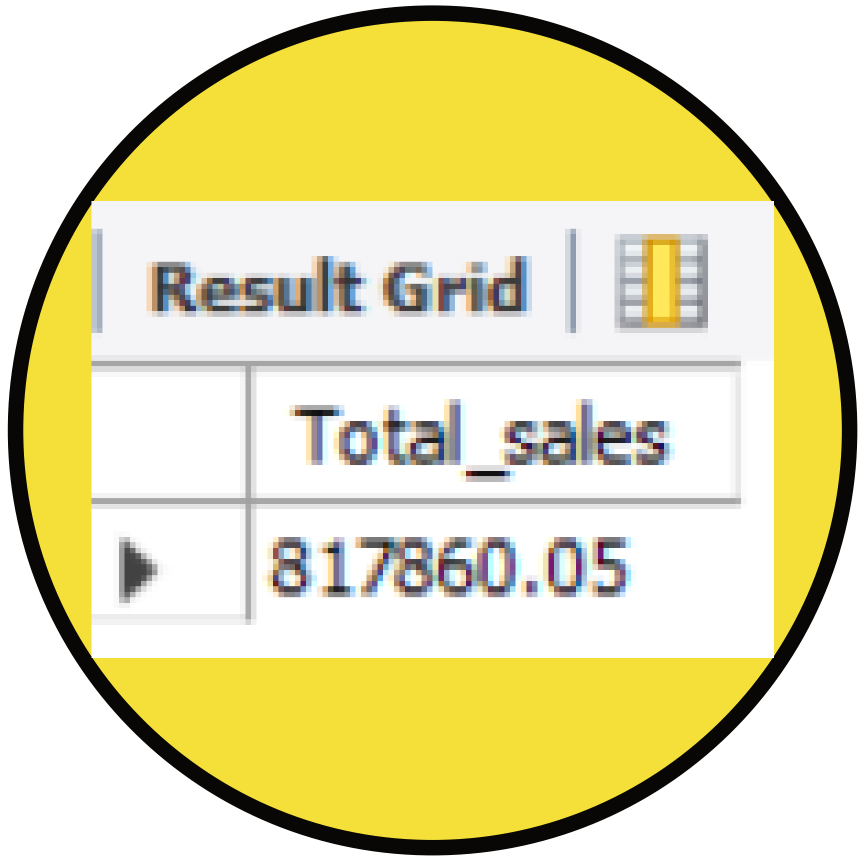


```
Total_orders
48620
```

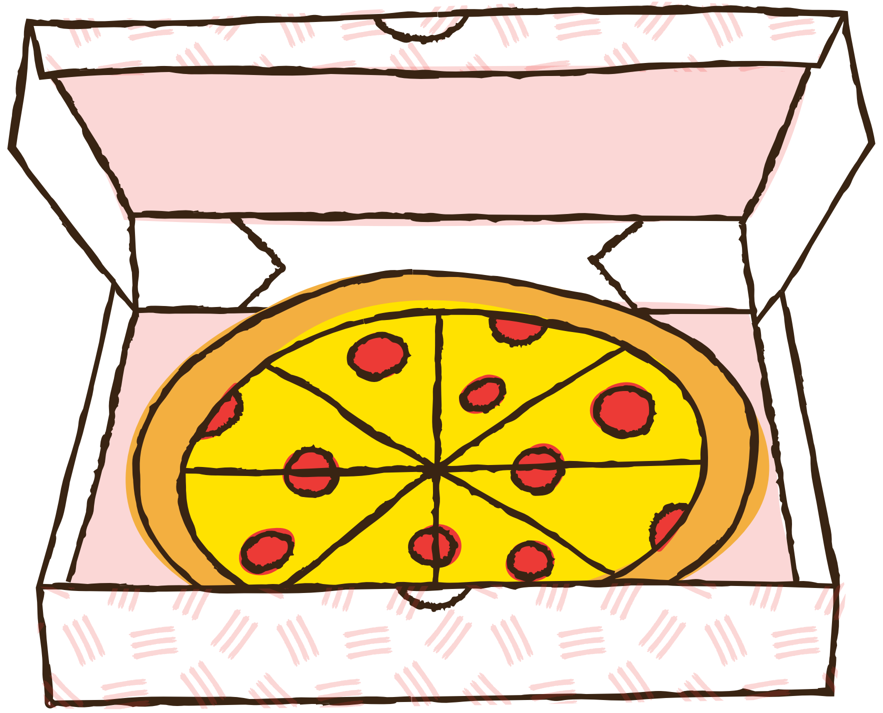


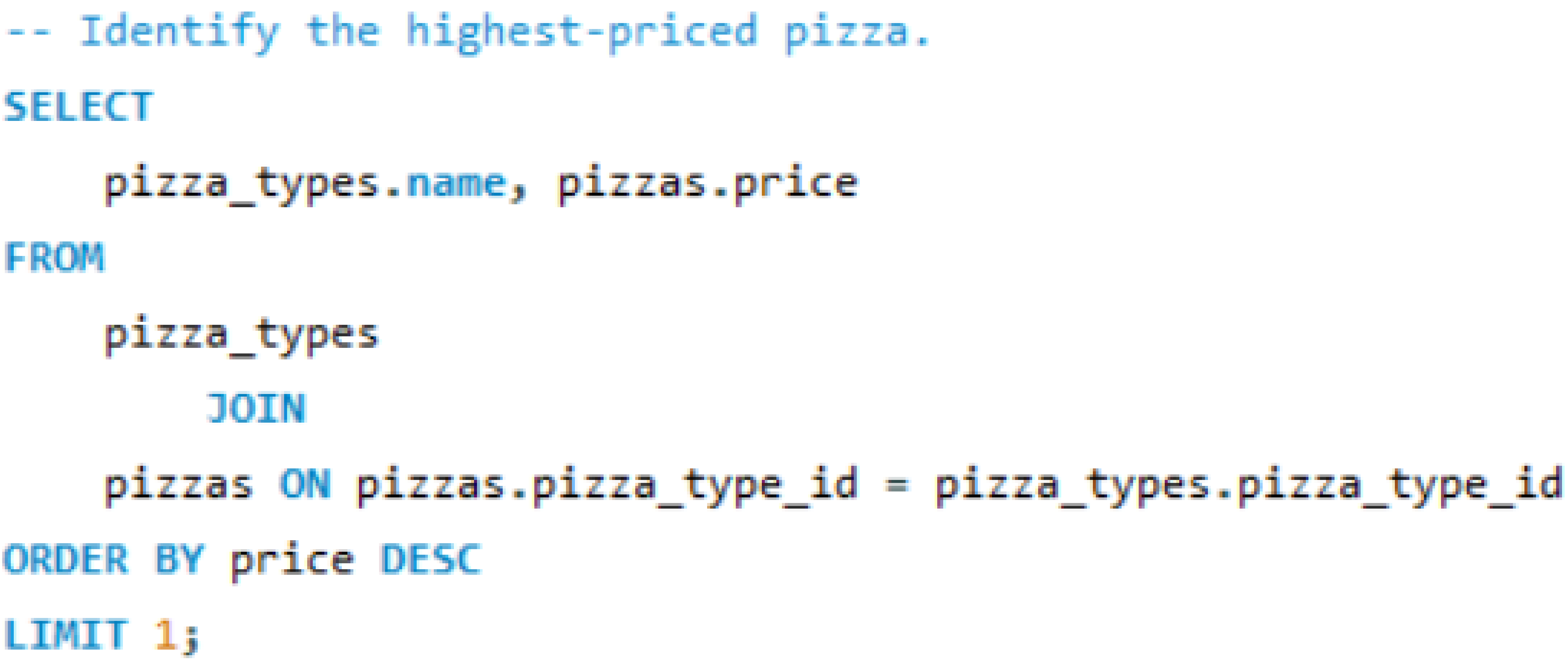
```sql
-- Calculate the total revenue generated from pizza sales.
SELECT
    round(sum(pizzas.price * order_details.quantity),2) AS Total_sales
FROM
  order_details
        JOIN
  pizzas ON pizzas.pizza_id = order_details.pizza_id;
```



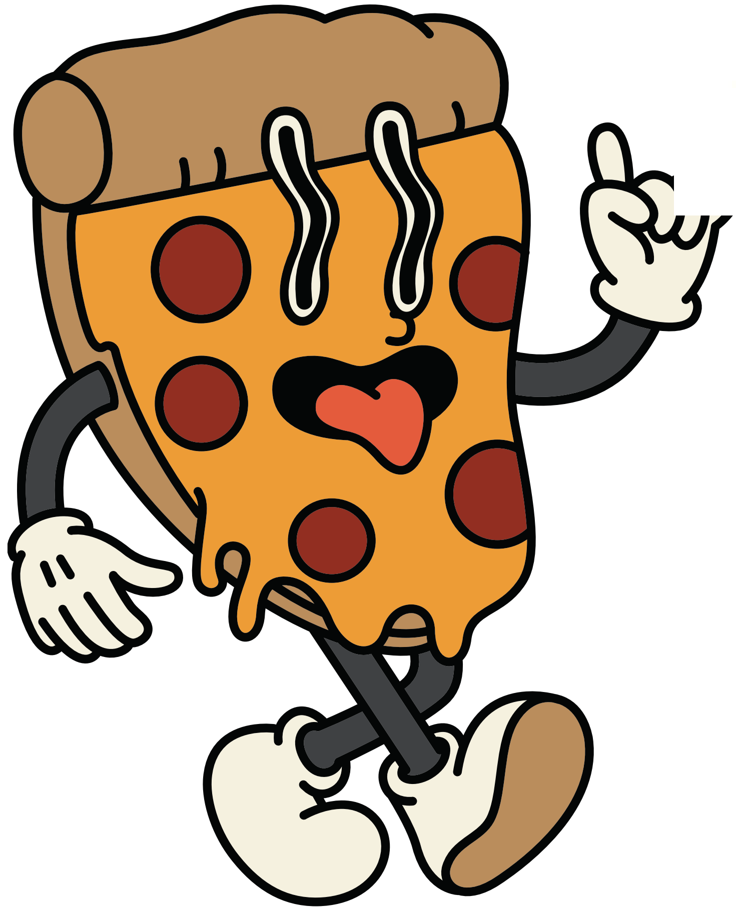


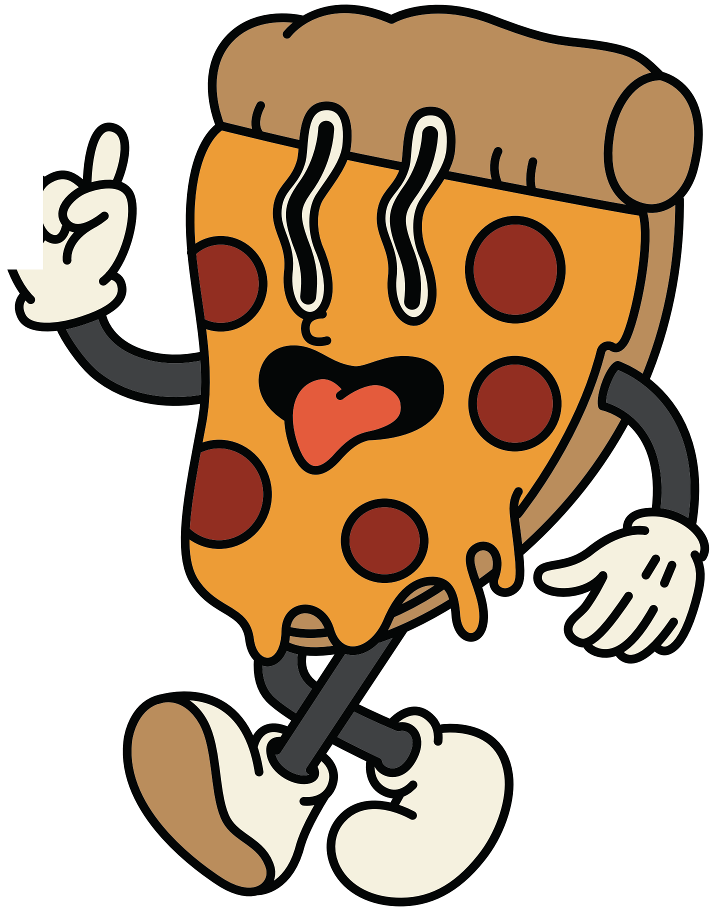
```
Total_sales
817860.05
```

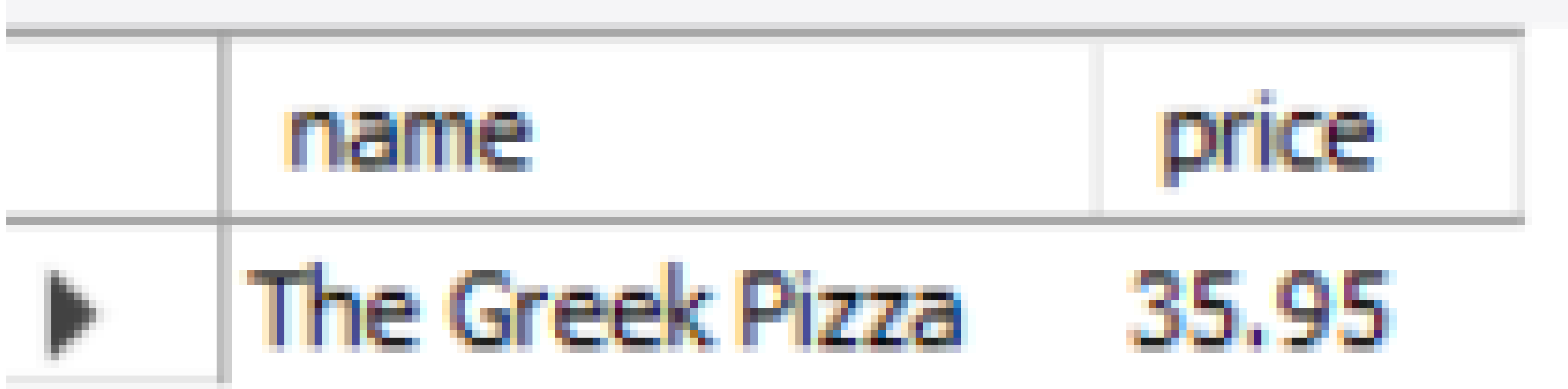




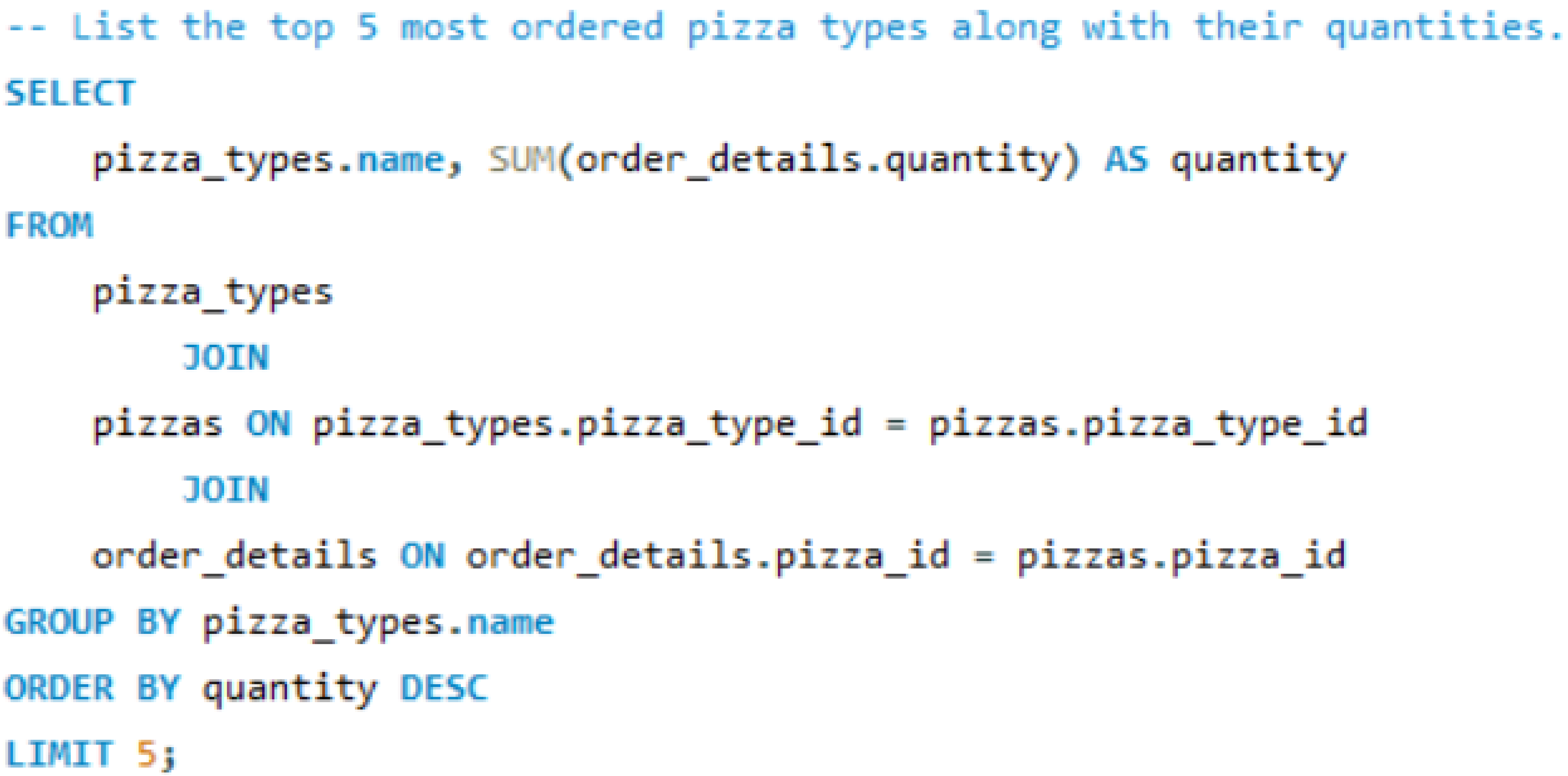
```
-- Identify the highest-priced pizza.
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizzas.pizza_type_id = pizza_types.pizza_type_id
ORDER BY price DESC
LIMIT 1;
```



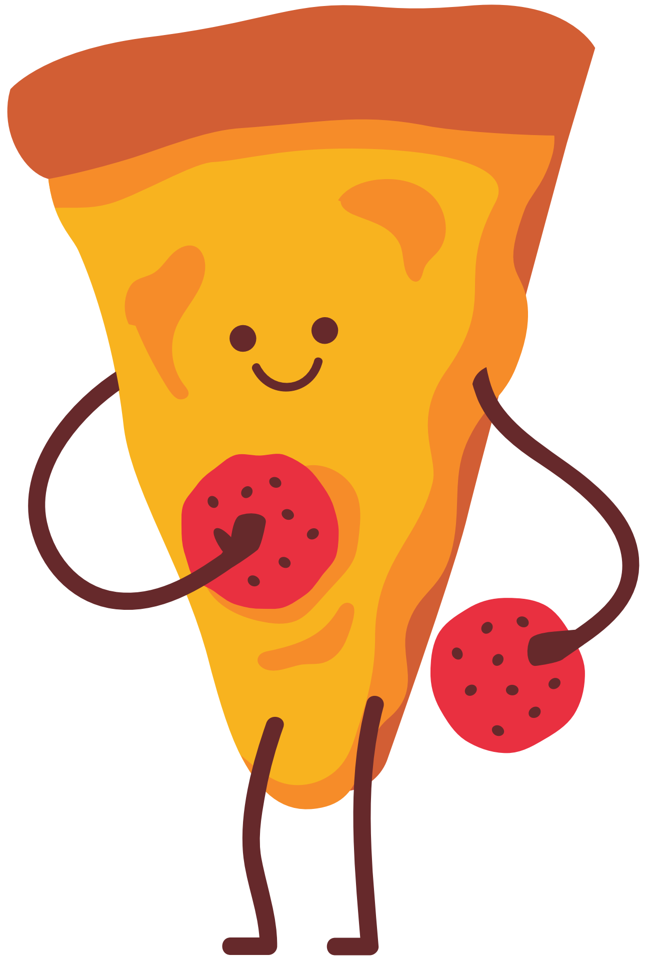


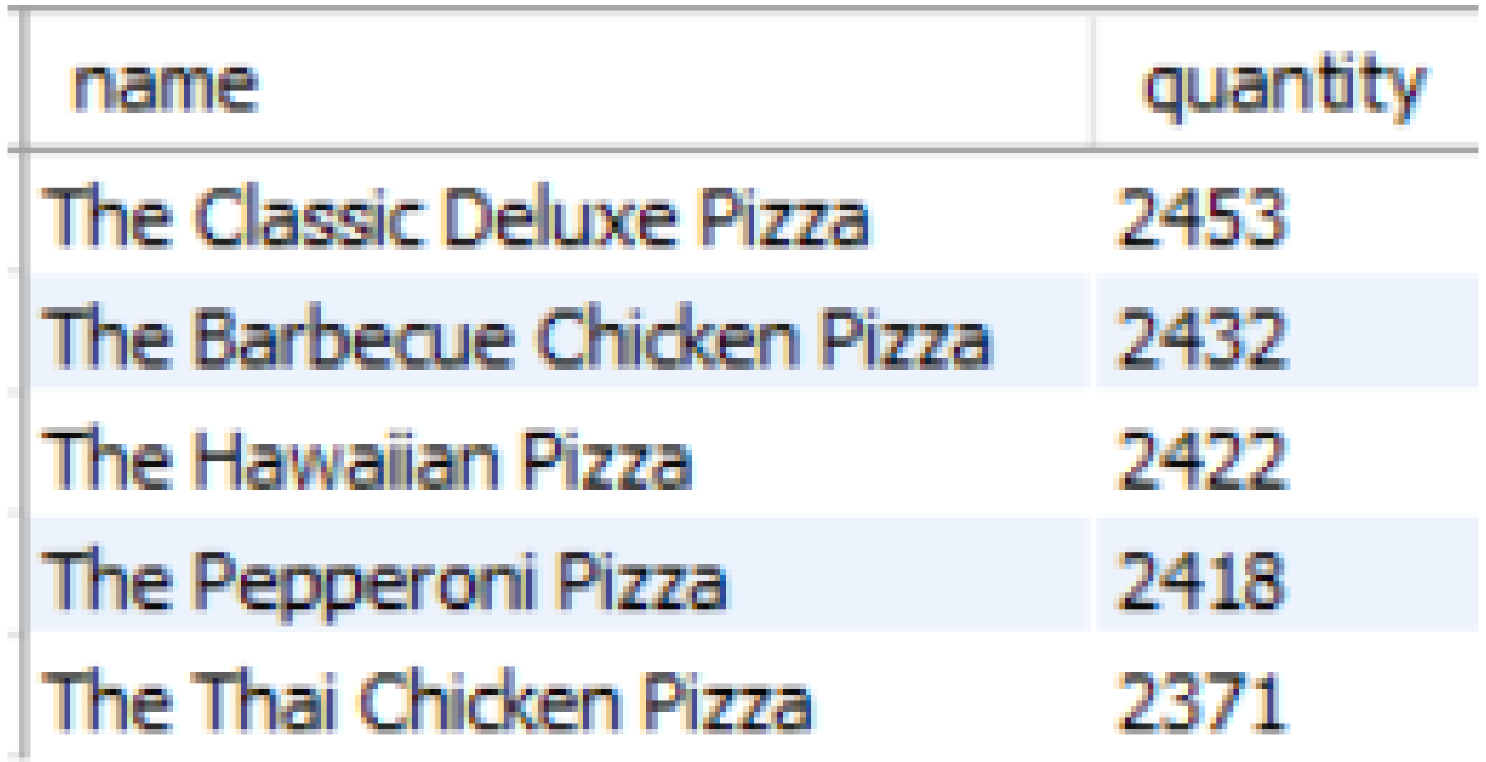


	name	price
▶	The Greek Pizza	35.95

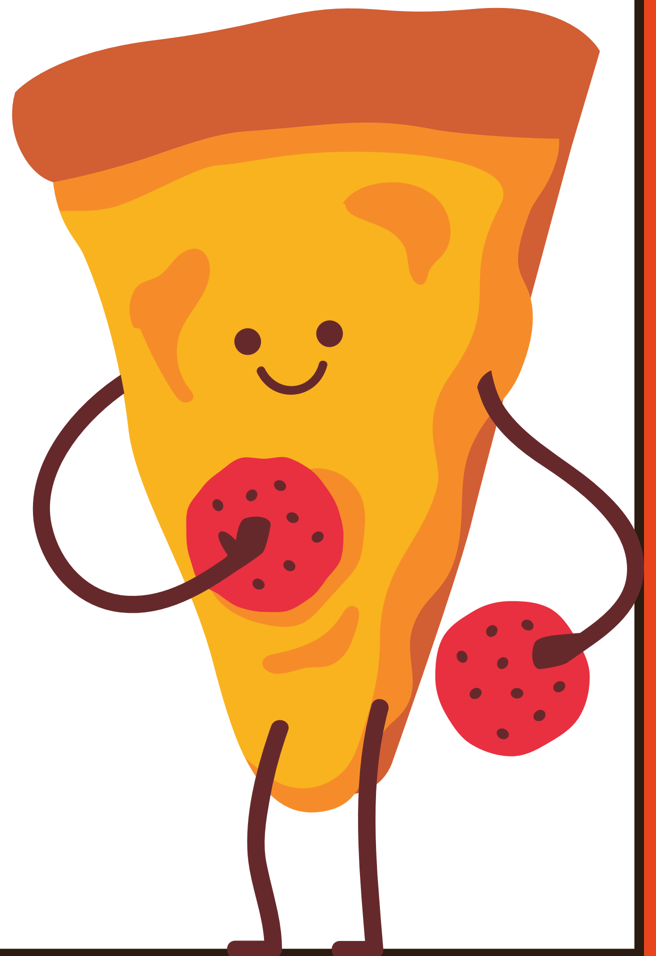


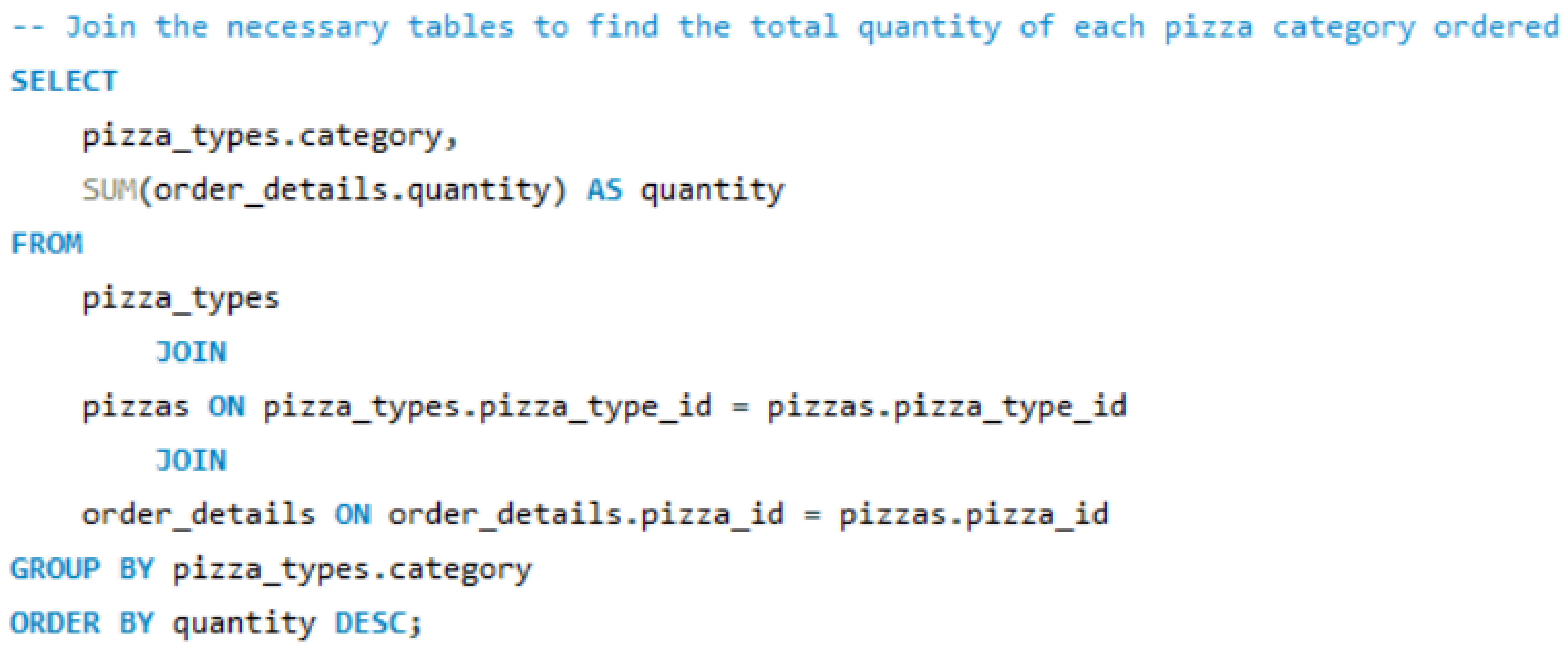
```
-- List the top 5 most ordered pizza types along with their quantities.
SELECT
    pizza_types.name, SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id =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



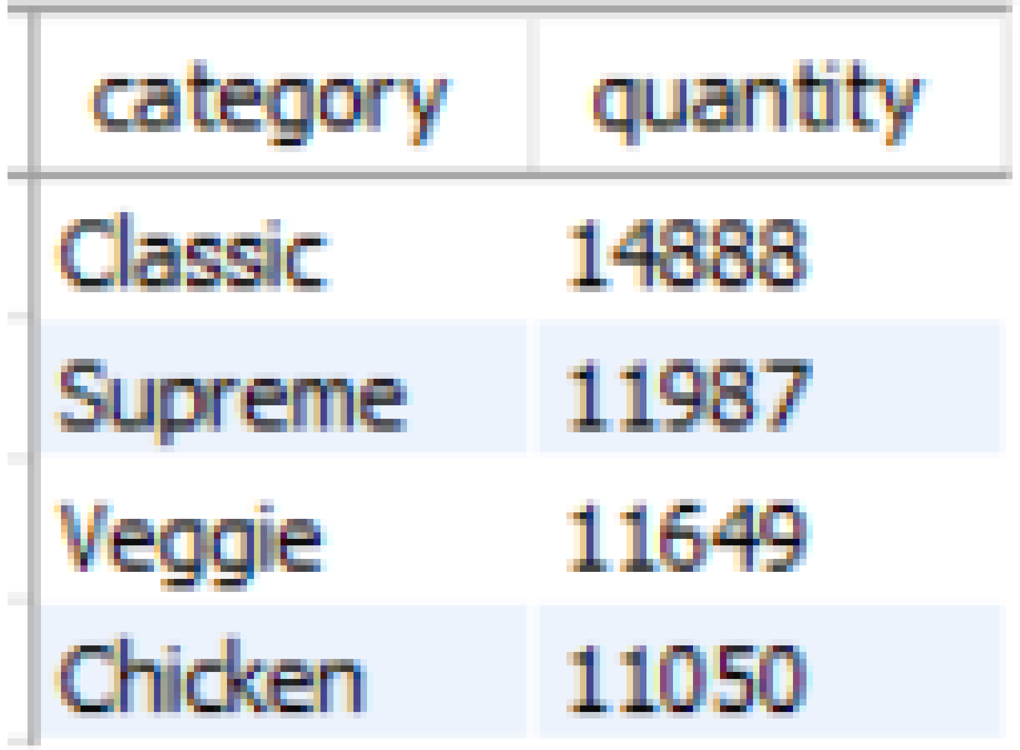


name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

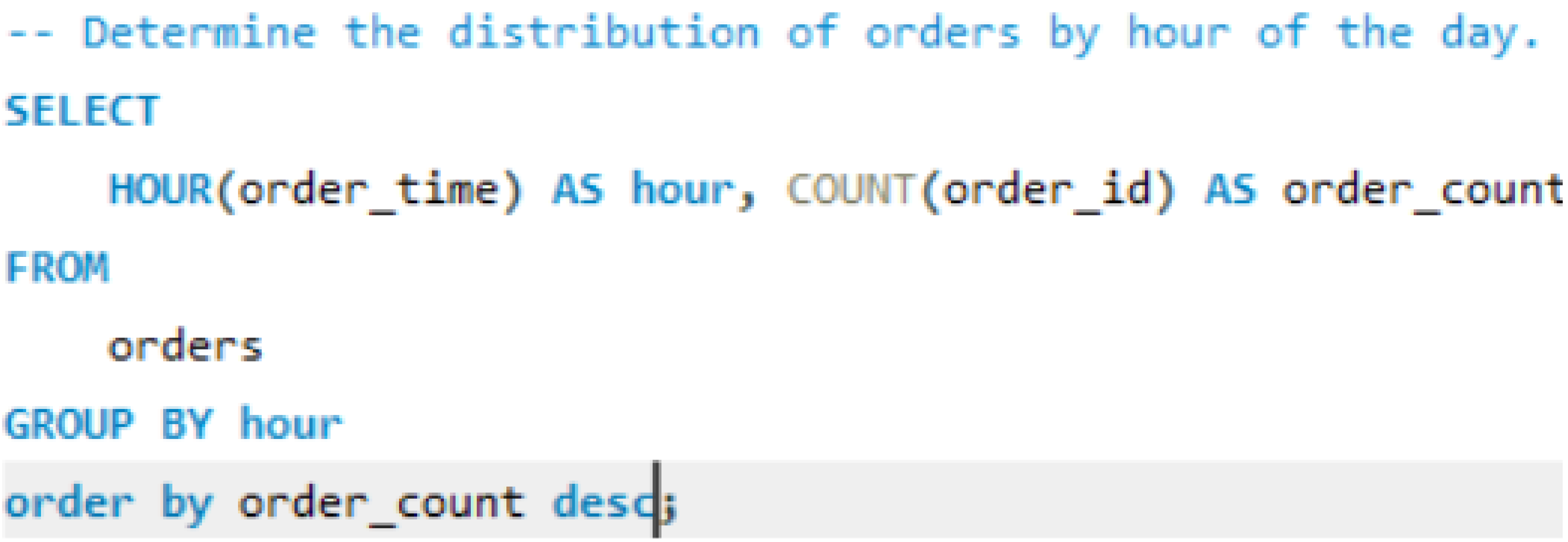




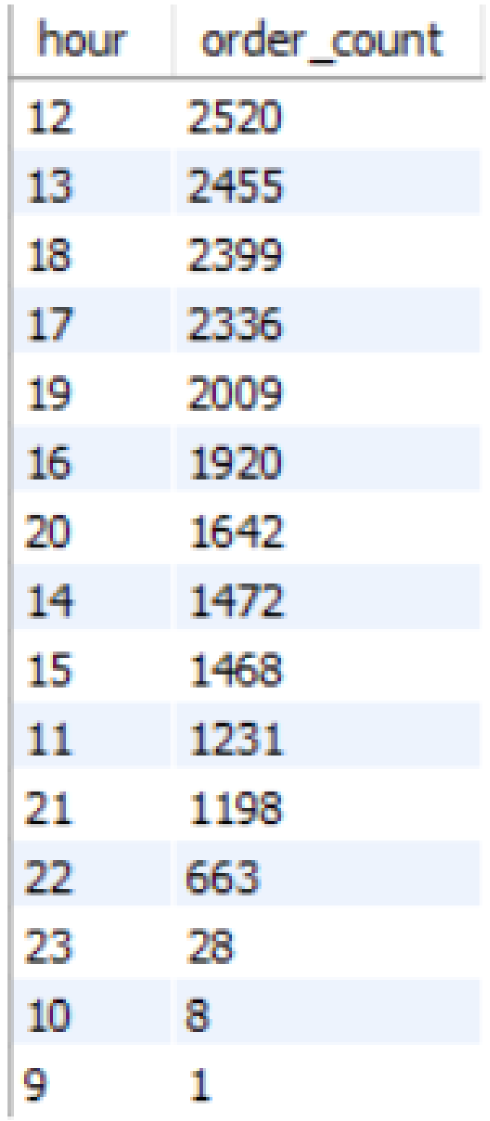
```sql
-- Join the necessary tables to find the total quantity of each pizza category ordered
SELECT
    pizza_types.category,
    SUM(order_details.quantity) AS quantity
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON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



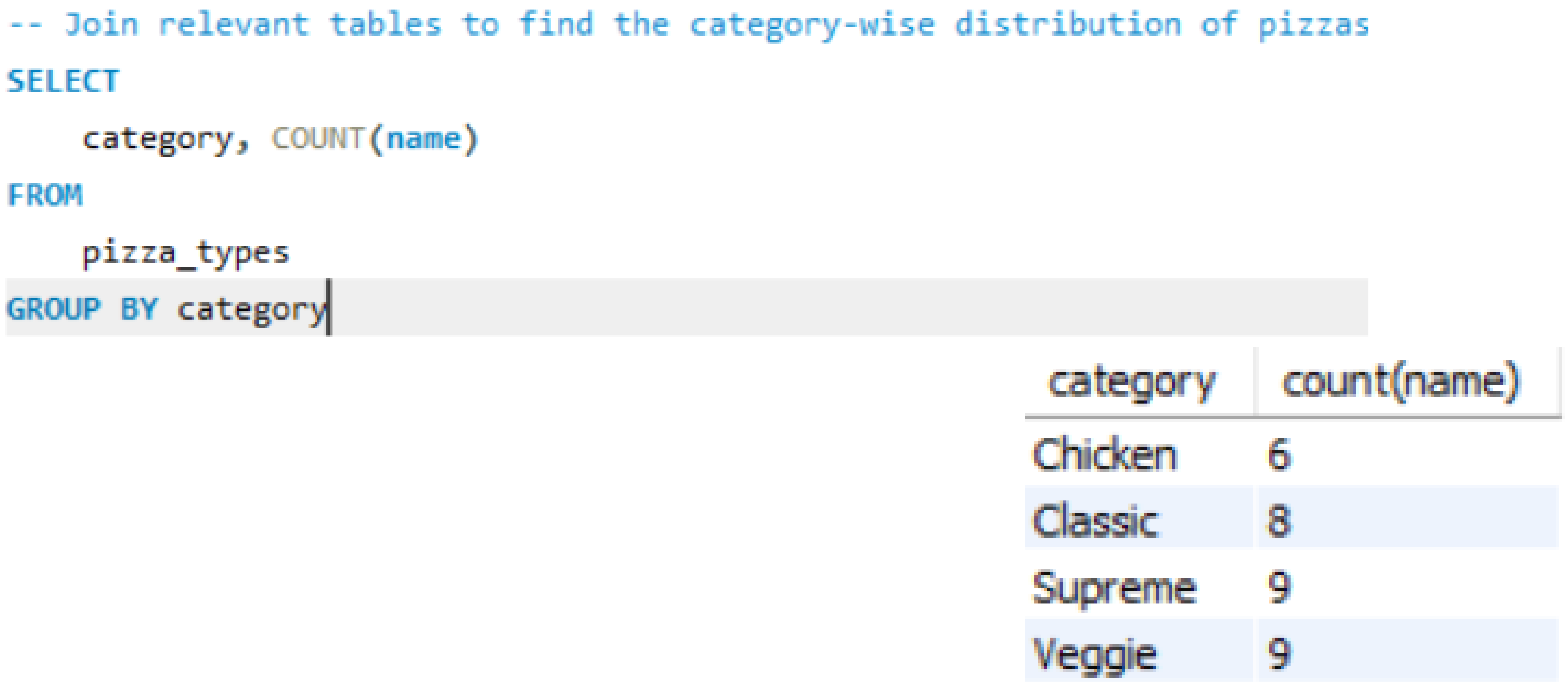
category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050



```
-- Determine the distribution of orders by hour of the day.
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY hour
order by order_count desc;
```

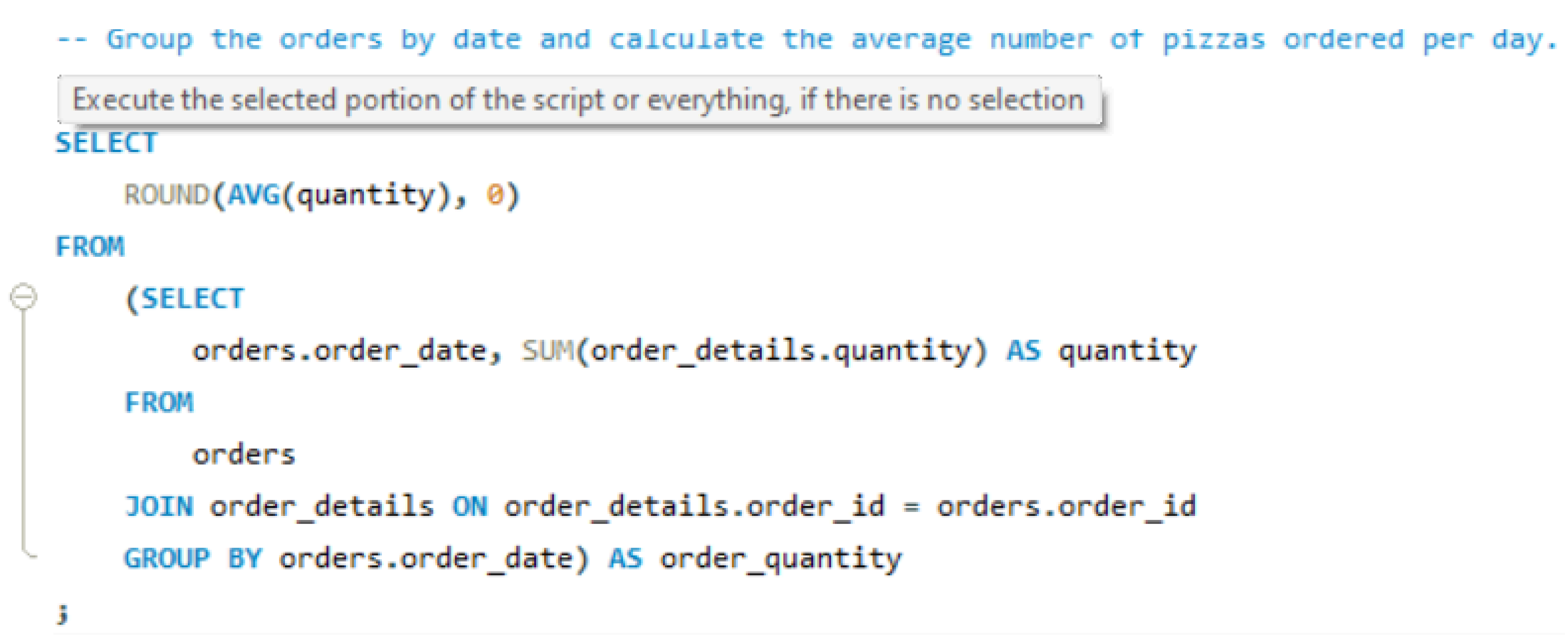


hour	order_count
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
21	1198
22	663
23	28
10	8
9	1



```sql
-- Join relevant tables to find the category-wise distribution of pizzas
SELECT
    category, COUNT(name)
FROM
    pizza_types
GROUP BY category
```

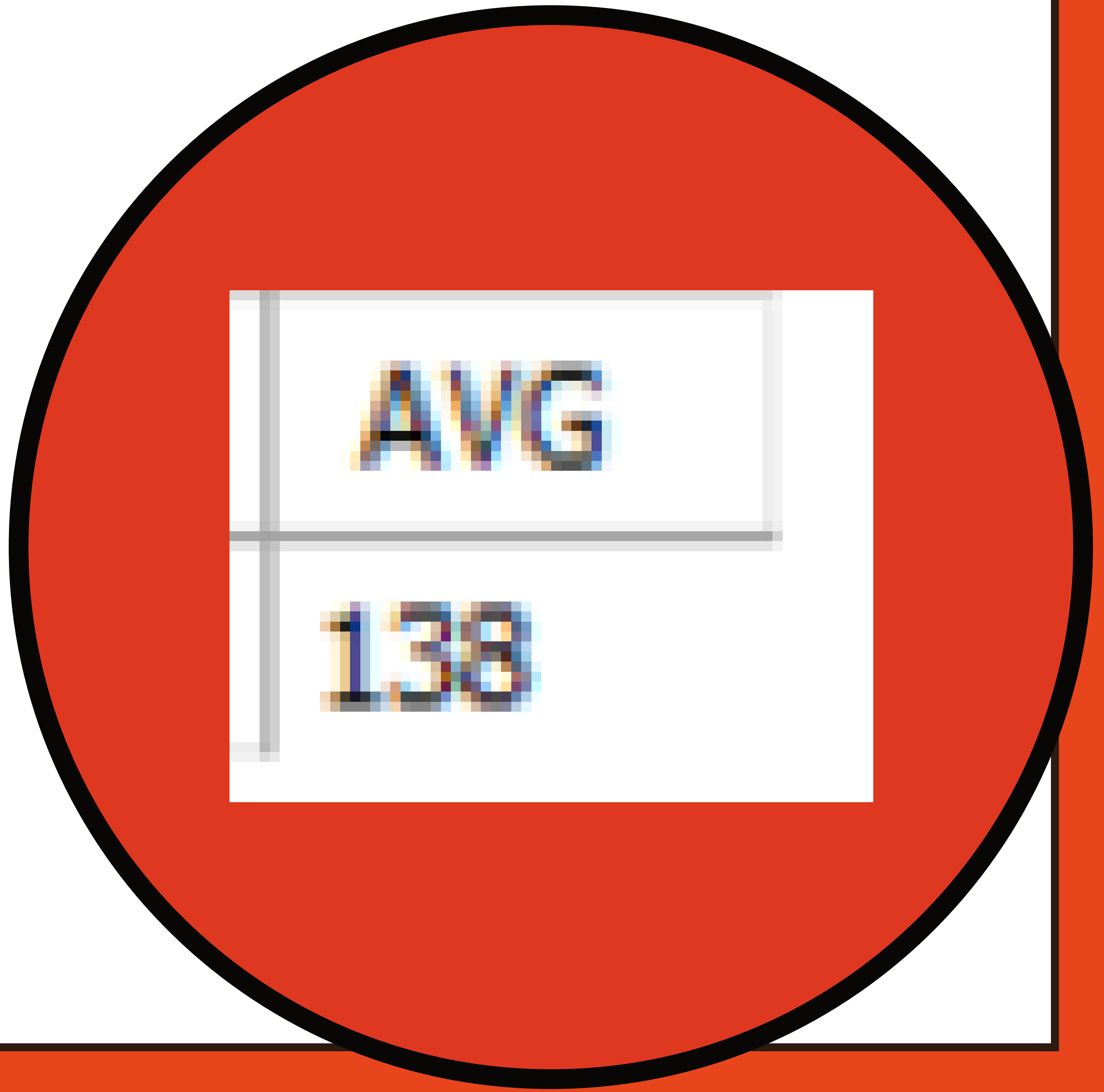
category	count(name)
Chicken	6
Classic	8
Supreme	9
Veggie	9



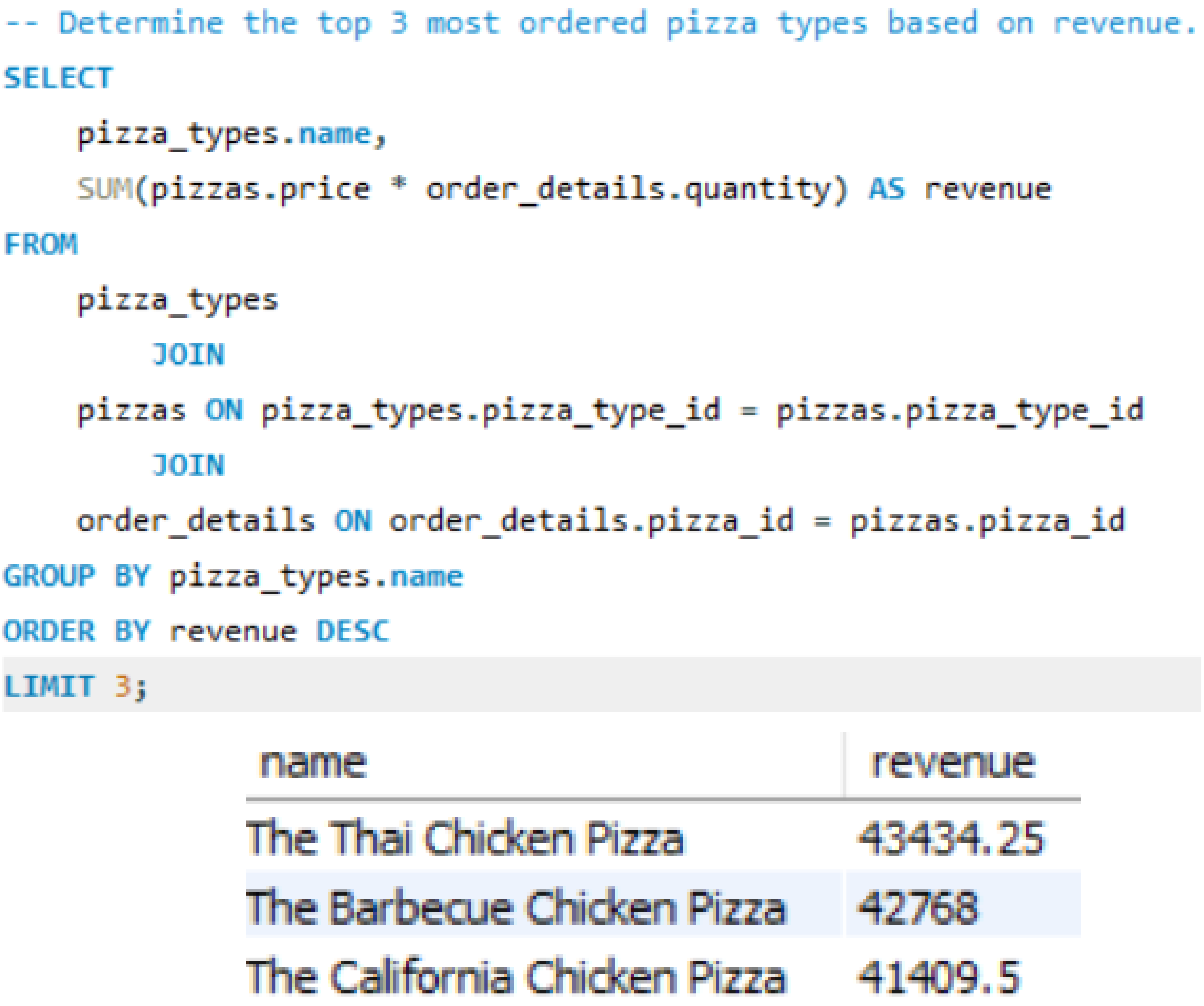
```
-- Group the orders by date and calculate the average number of pizzas ordered per day.
```

Execute the selected portion of the script or everything, if there is no selection

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

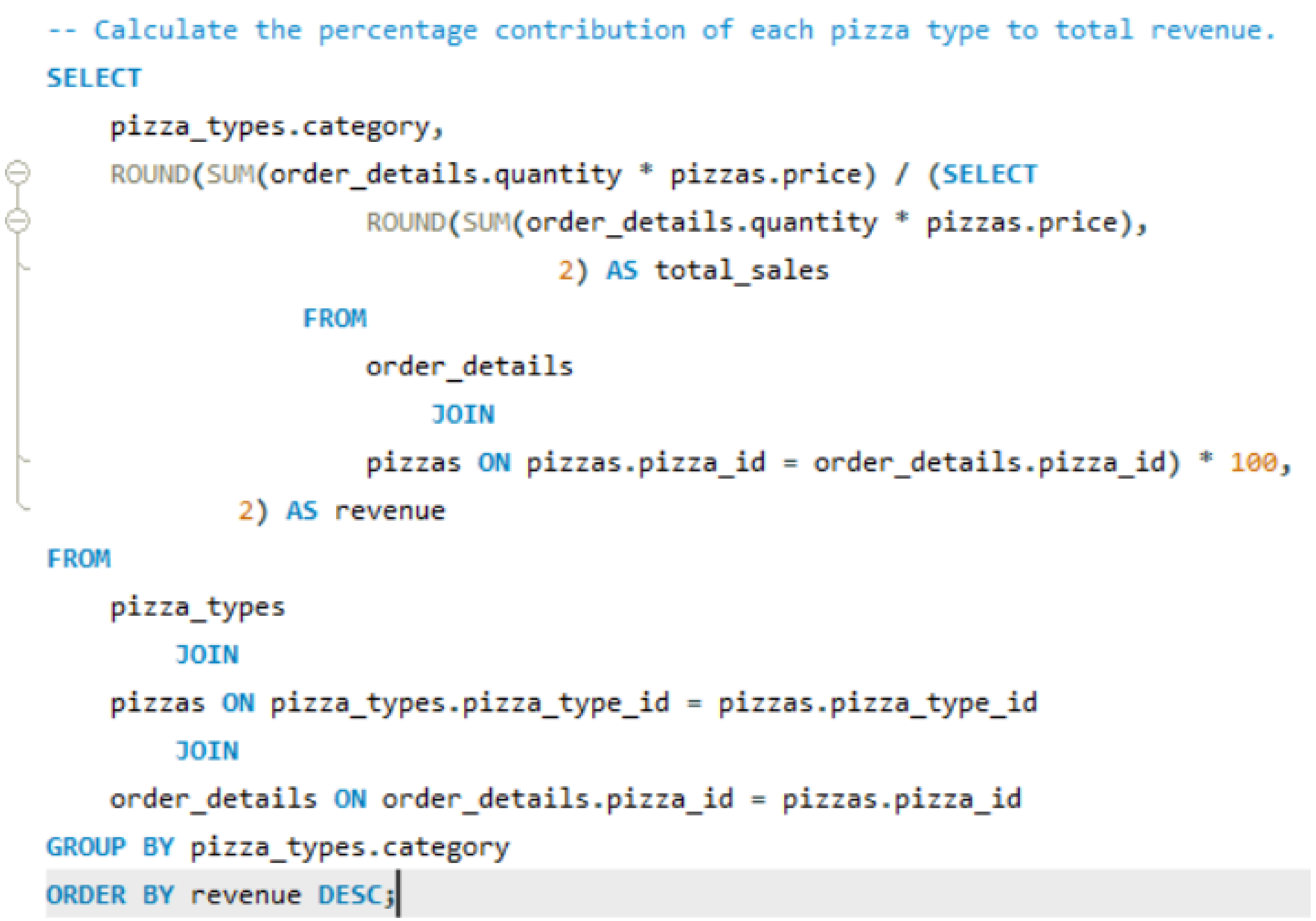


AVG
138

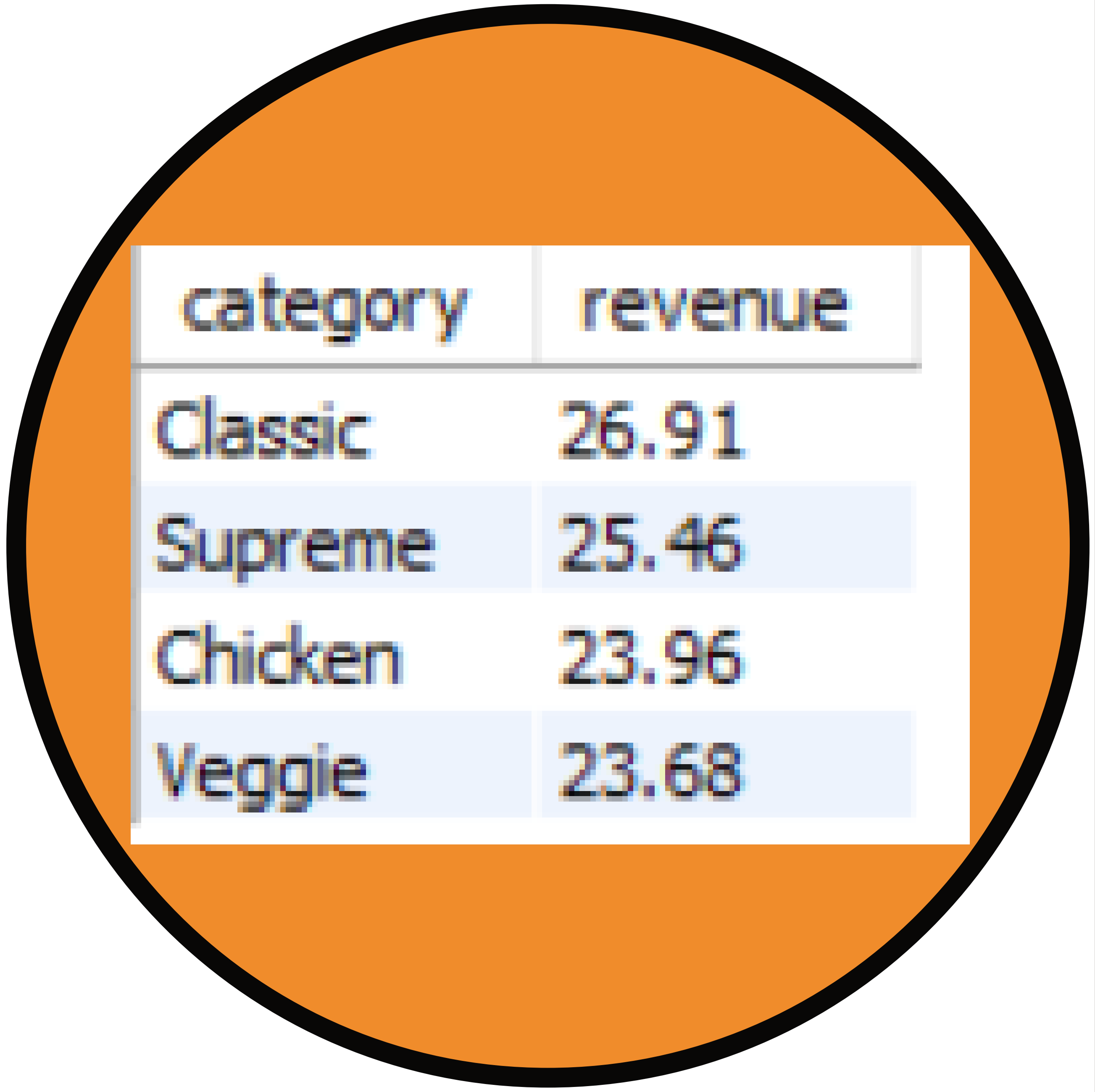


```sql
-- Determine the top 3 most ordered pizza types based on revenue.
SELECT
    pizza_types.name,
    SUM(pizzas.price * order_details.quantity) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```

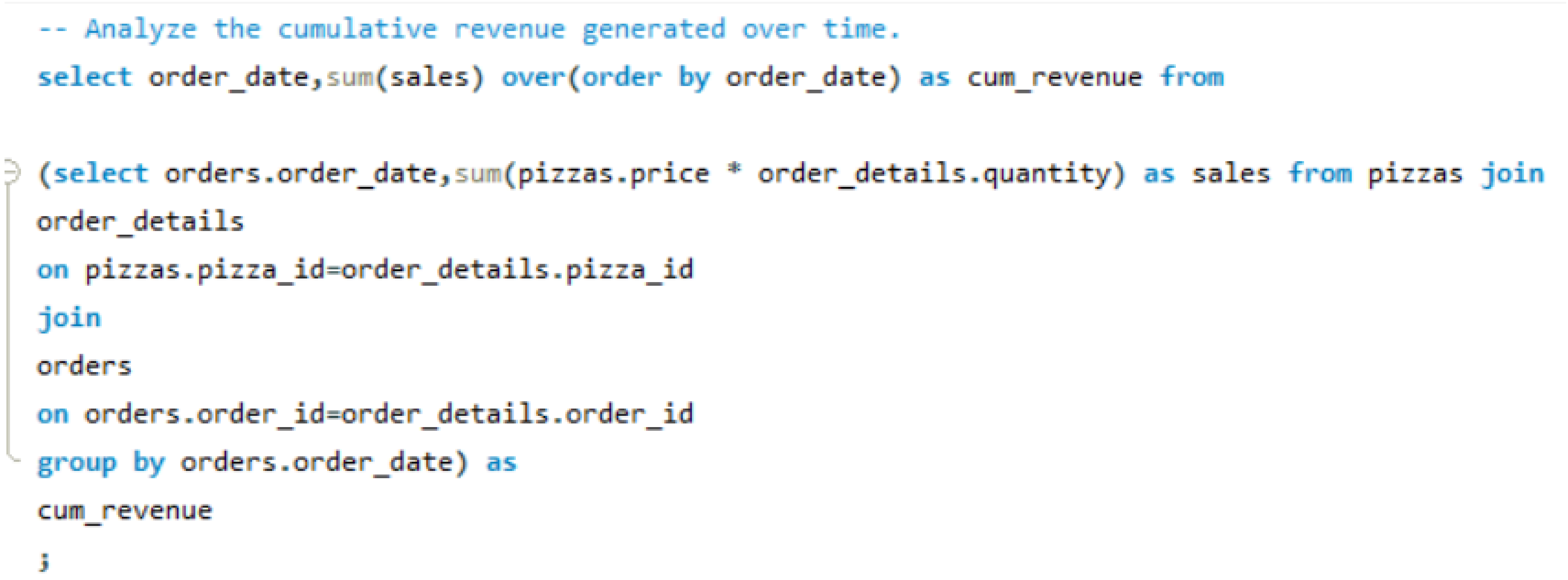
name	revenue
The Thai Chicken Pizza	43434.25
The Barbecue Chicken Pizza	42768
The California Chicken Pizza	41409.5



```sql
-- 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;
```

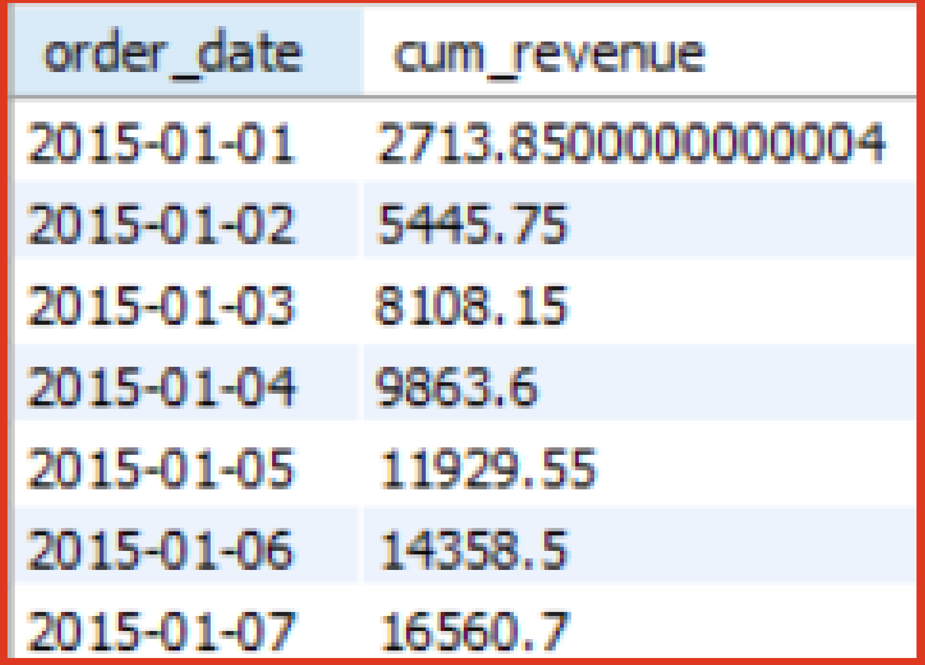


category	revenue
Classic	26.91
Supreme	25.46
Chicken	23.96
Veggie	23.68



```
-- Analyze the cumulative revenue generated over time.
select order_date,sum(sales) over(order by order_date) as cum_revenue from

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



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