PIZZA SALES PROJECT

OVERVIEW

IN THIS PROJECT WE ANALISE PIZZA SALES FROM CLEAN DATA OBTAINED FROM EXCEL SHEET WHICH CONTAINS FOUR EXCEL SHEET INCLUDES:

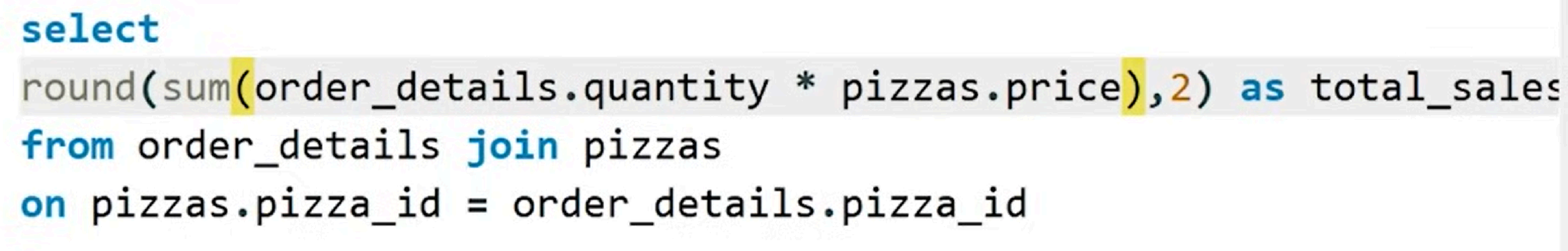
- ORDER_DETAILS
- ORDERS
- PIZZA_TYPES
- PIZZAS

PROCEDURE

- IMPORTING RAW DATA INTO EXCEL SOFTWARE
- CLEANING AND TRANSFORMING OF DATA USING EXCEL
- RUNNING SQL QUERY OVER TRANSFORM DATA SET.
- CALCULATION AND GET INSIGHTS

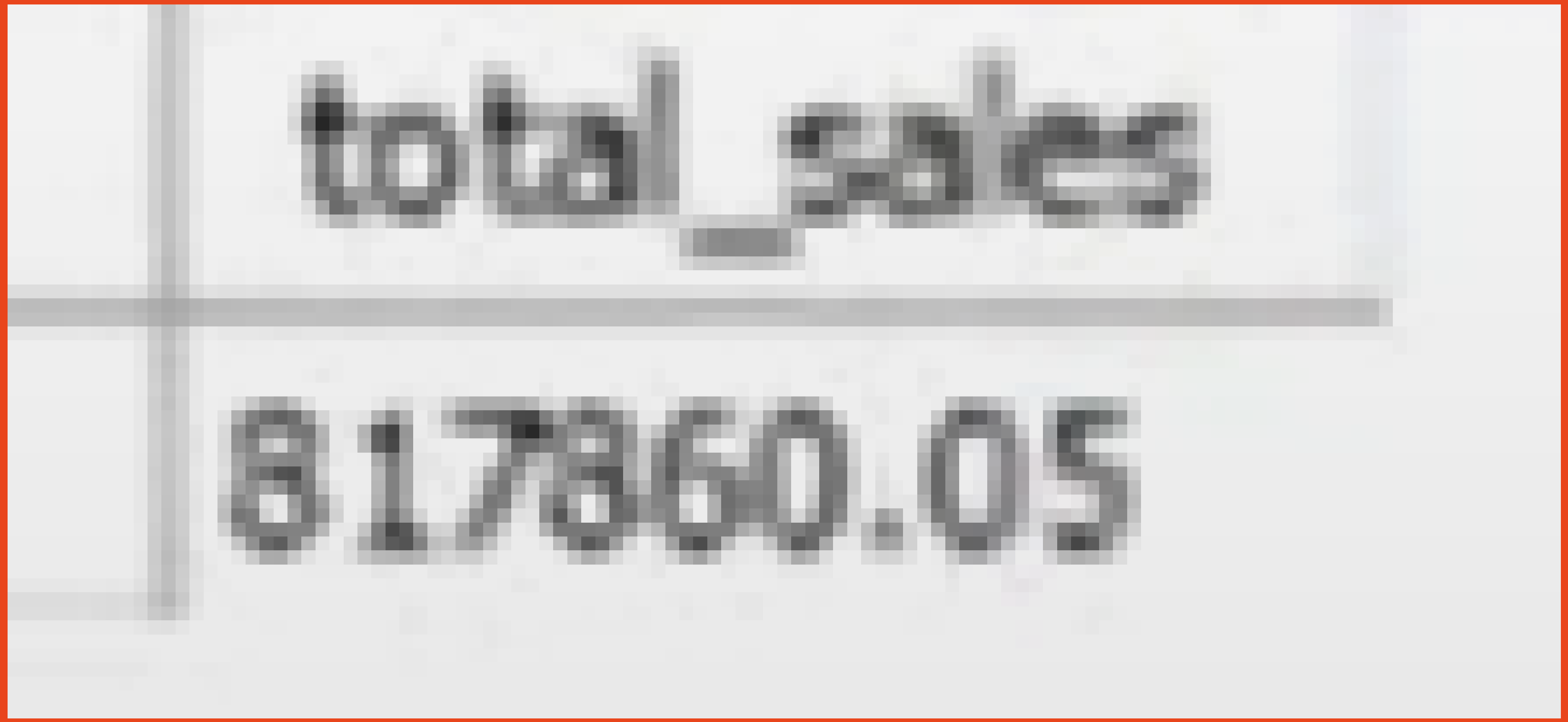
Calculate the total revenue generated from pizza sales.

QUERY



```
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
```

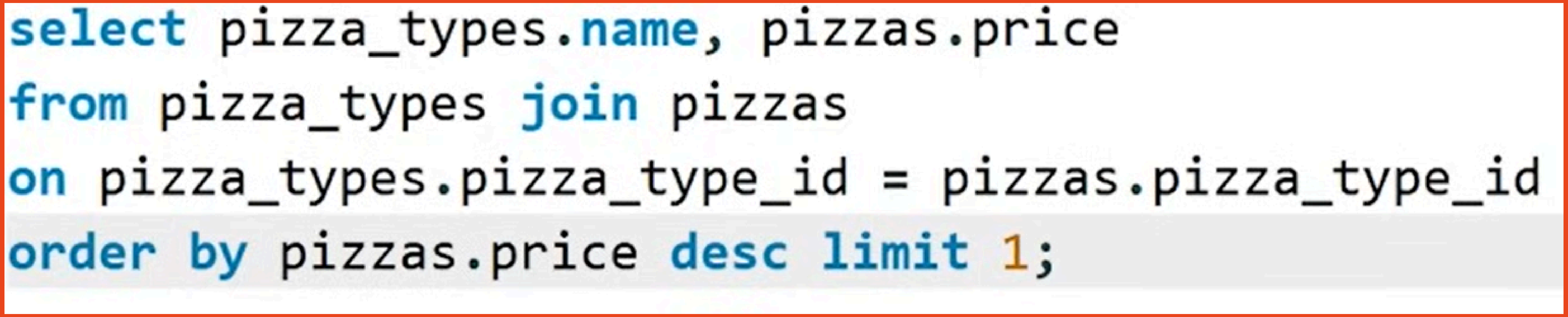
OUTPUT



```
total_sales
817860.05
```

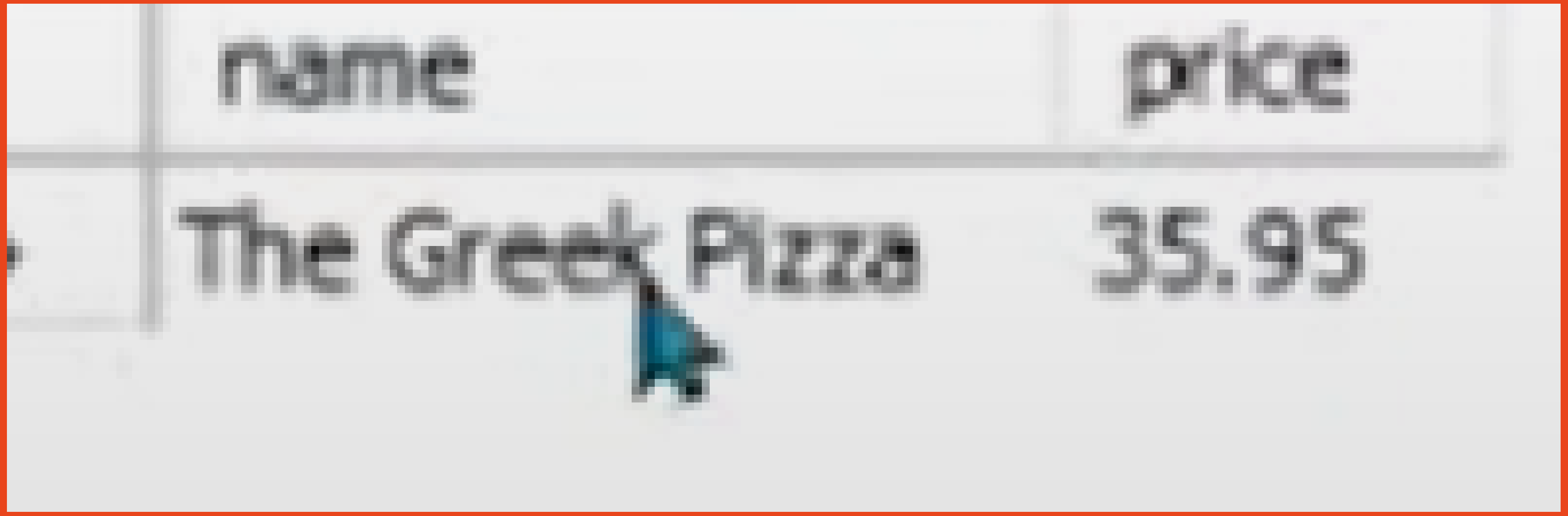
Identify the highest-priced pizza

QUERY



```
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;
```

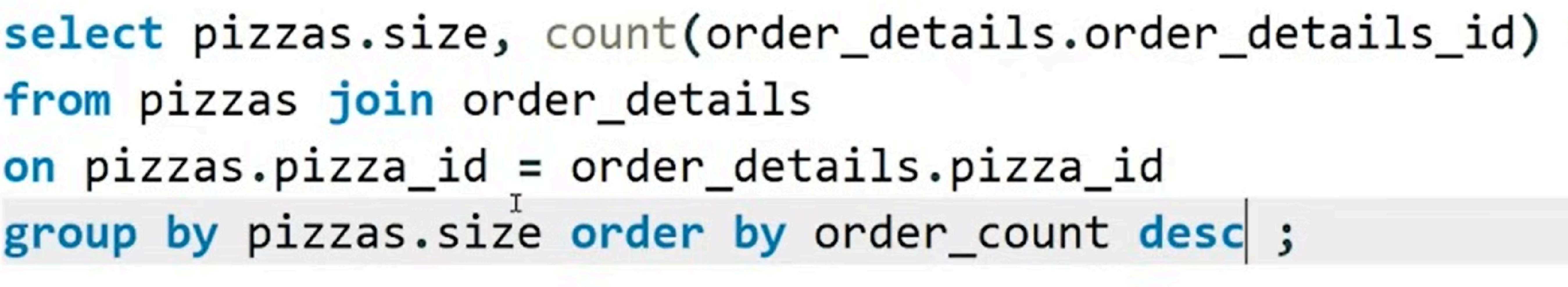
OUTPUT



name	price
The Greek Pizza	35.95

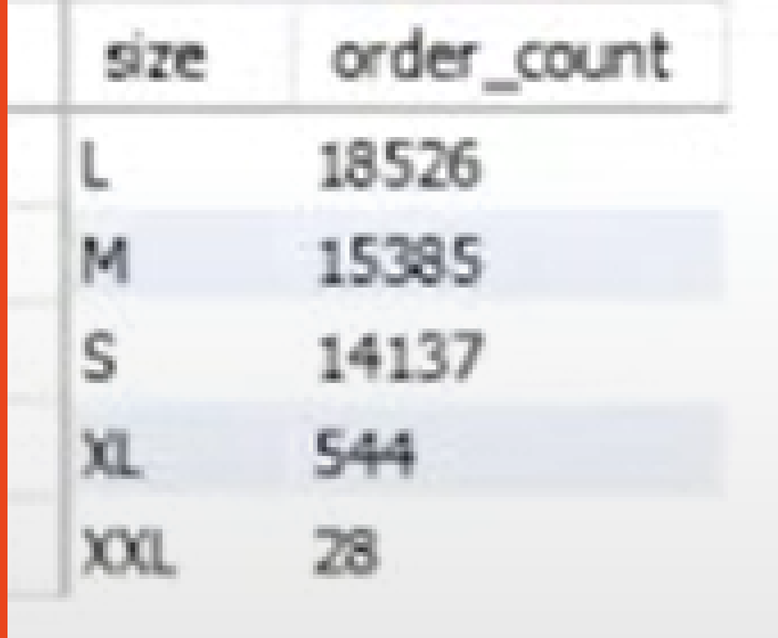
Identify the most common pizza size ordered.

QUERY



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

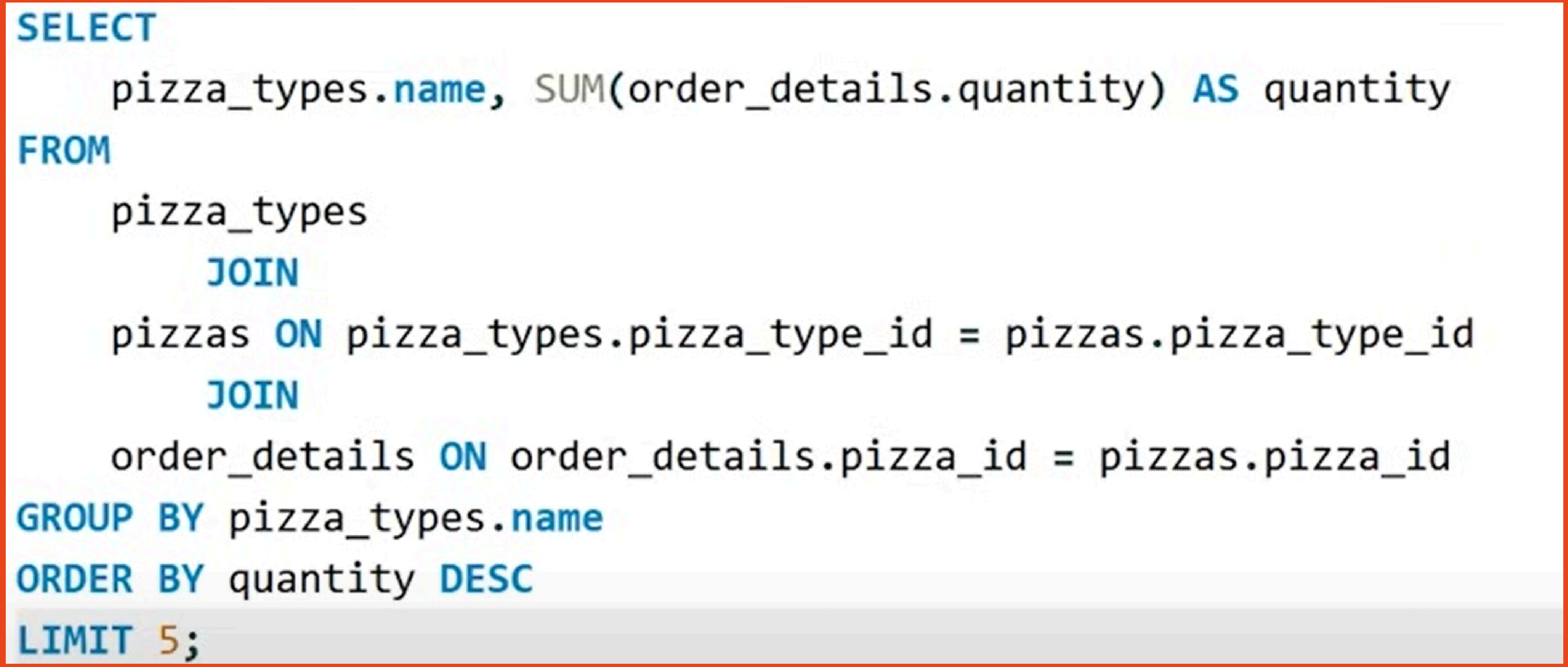
OUTPUT



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

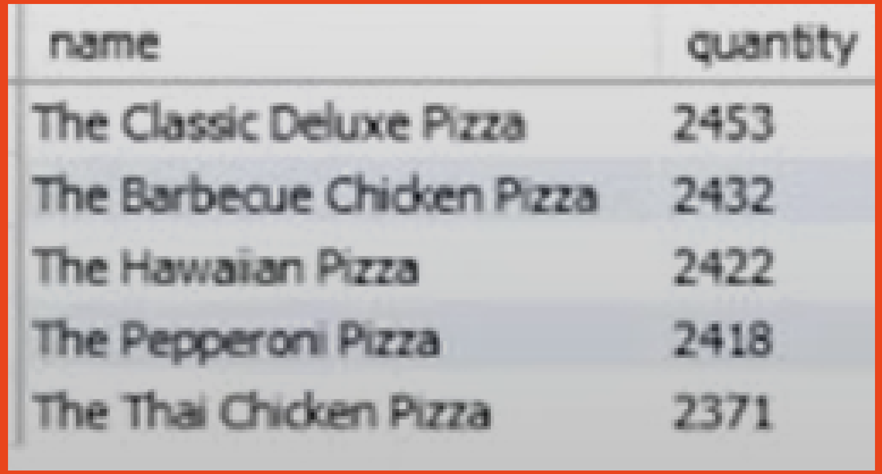
List the top 5 most ordered pizza types along with their quantities.

QUERY



```
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;
```

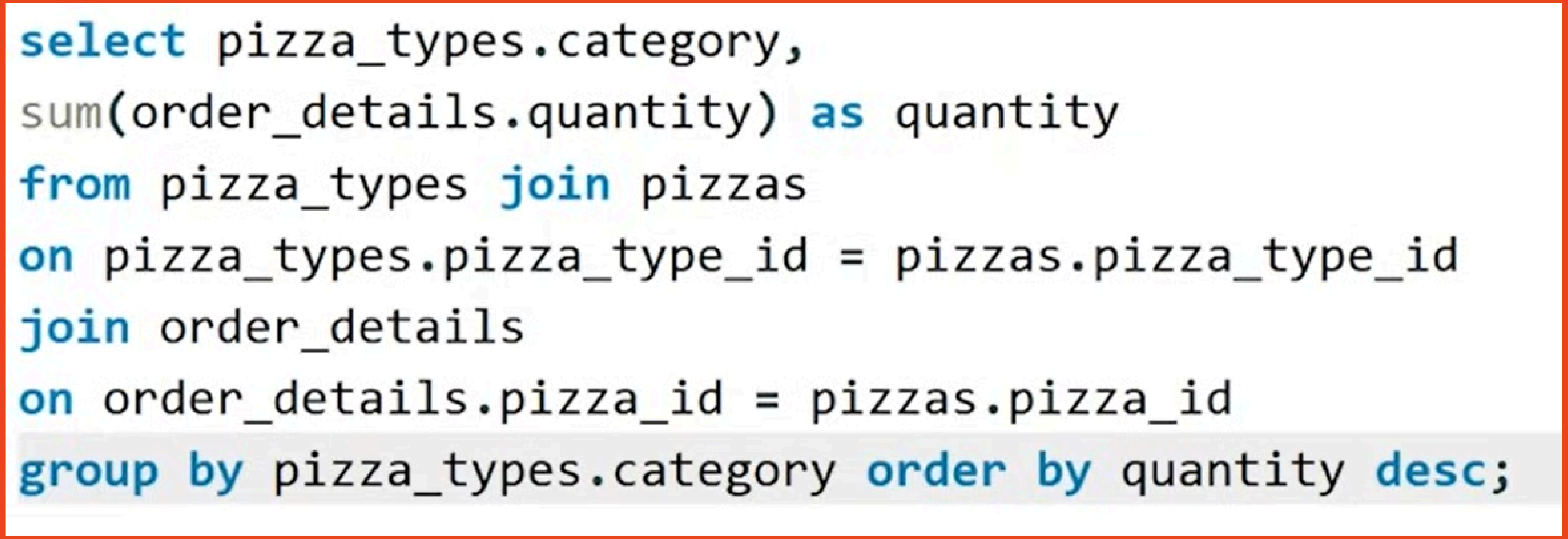
OUTPUT



```
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
```

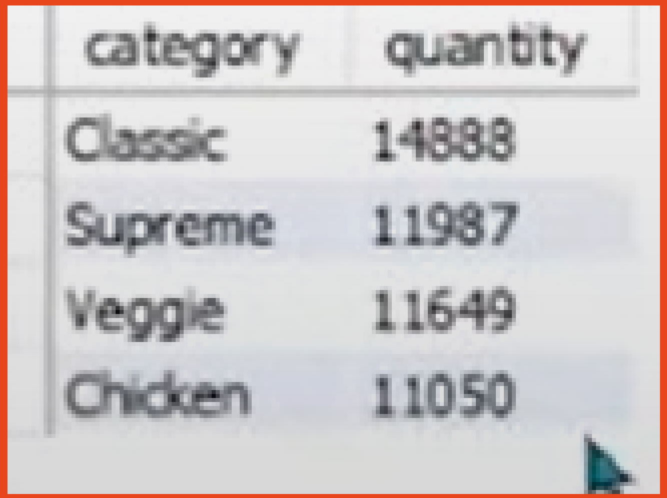
Join the necessary tables to find the total quantity of each pizza category ordered.

QUERY



```
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;
```

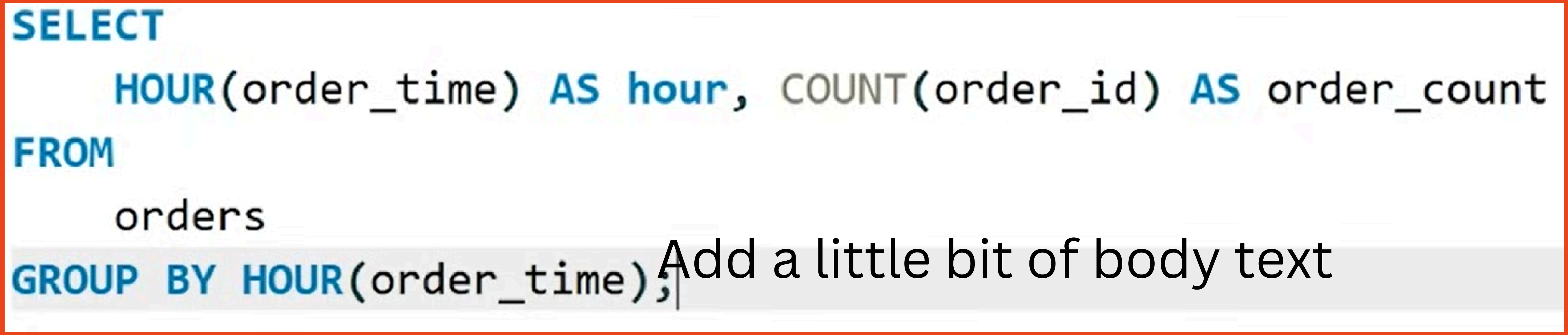
OUTPUT



category	quantity
Classic	14888
Supreme	11987
Veggie	11649
Chicken	11050

Determine the distribution of orders by hour of the day.

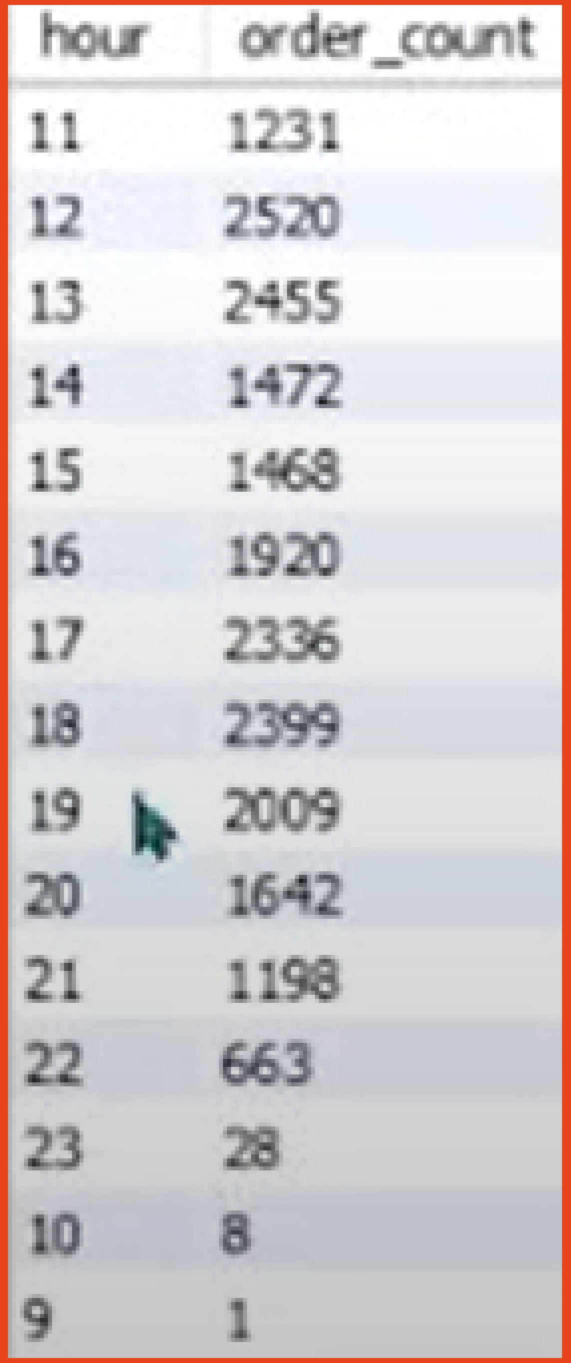
QUERY



```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

Add a little bit of body text

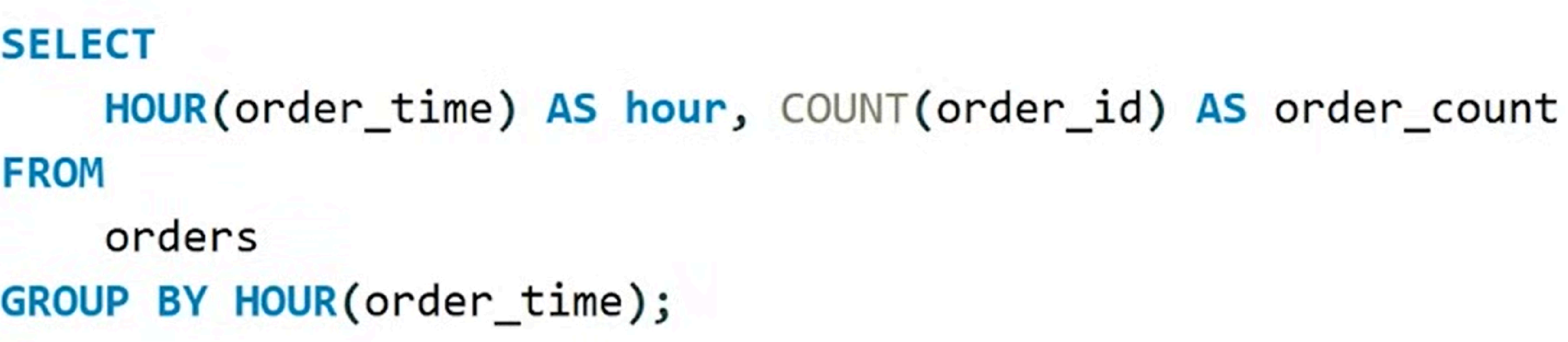
OUTPUT



hour	order_count
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

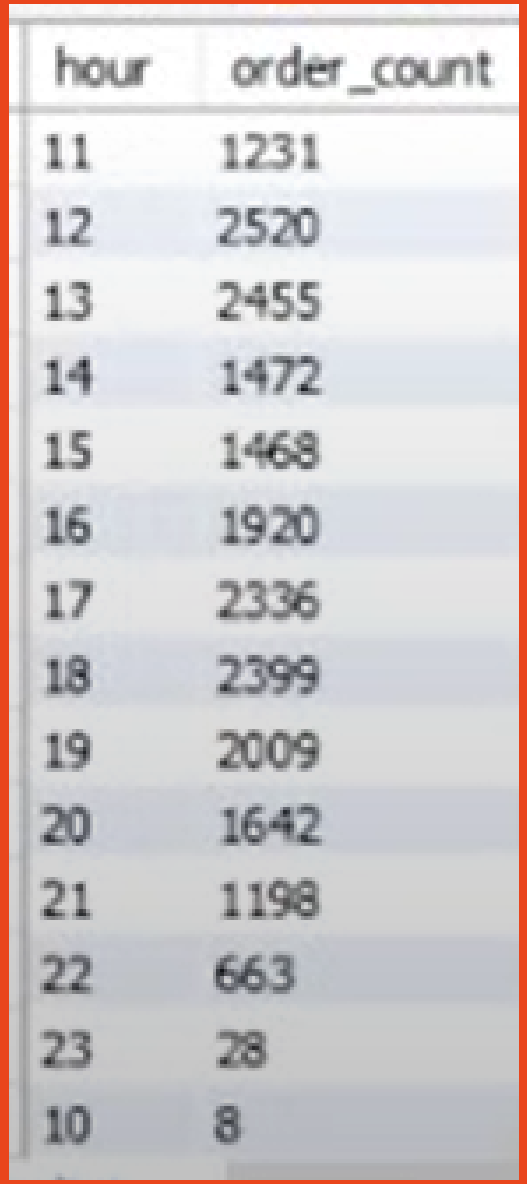
Join relevant tables to find the category-wise distribution of pizzas.

QUERY



```
SELECT
    HOUR(order_time) AS hour, COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(order_time);
```

OUTPUT



hour	order_count
11	1231
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17	2336
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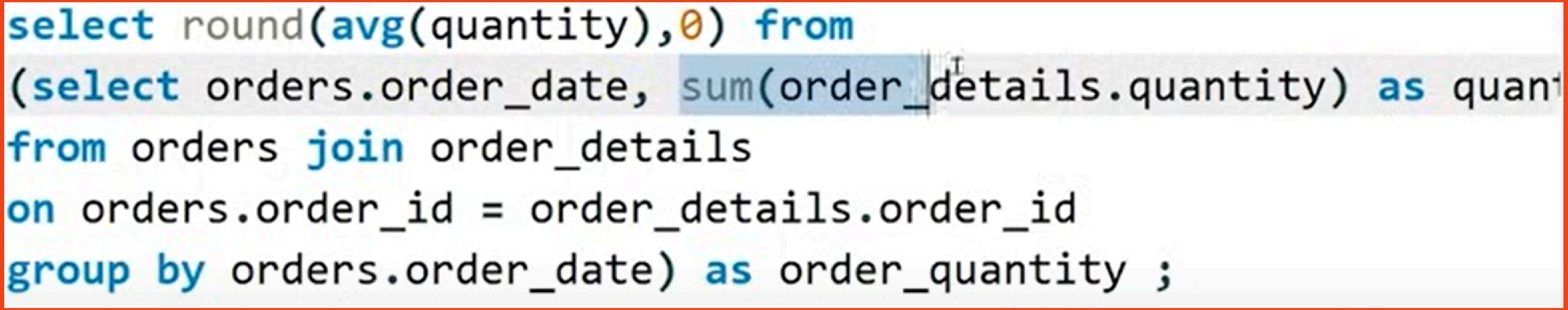
19	2009
20	1642
21	1198
22	663
23	28
10	8

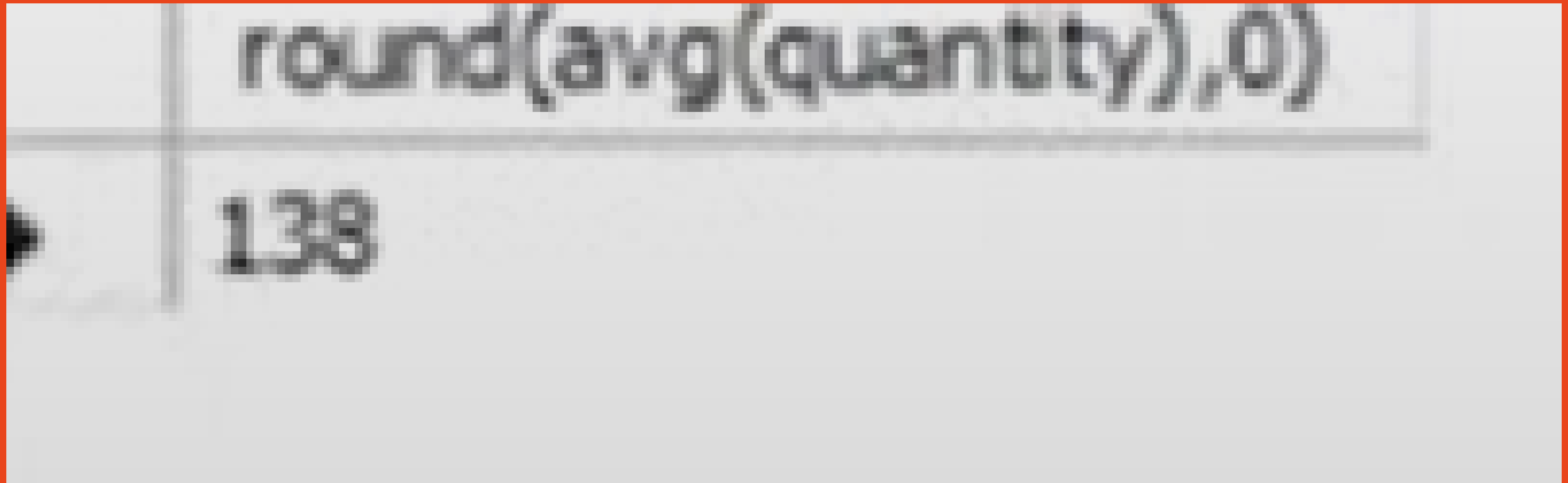
Group the orders by date and calculate the average number of pizzas ordered per day.

QUERY



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

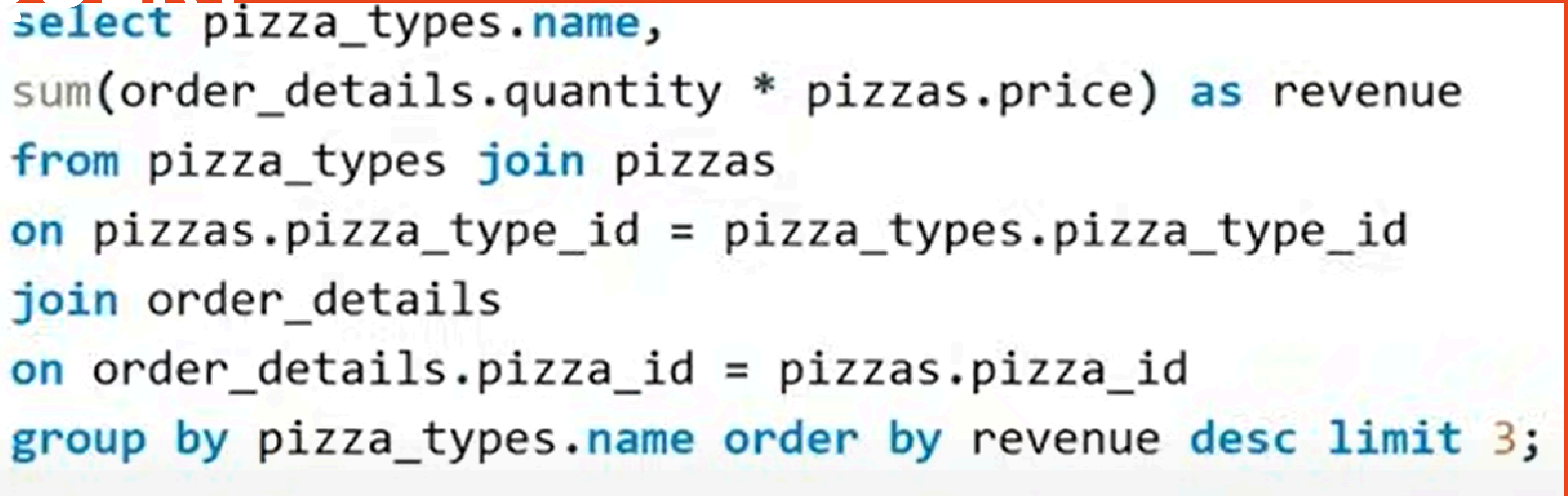
OUTPUT



```
round(avg(quantity),0)
138
```

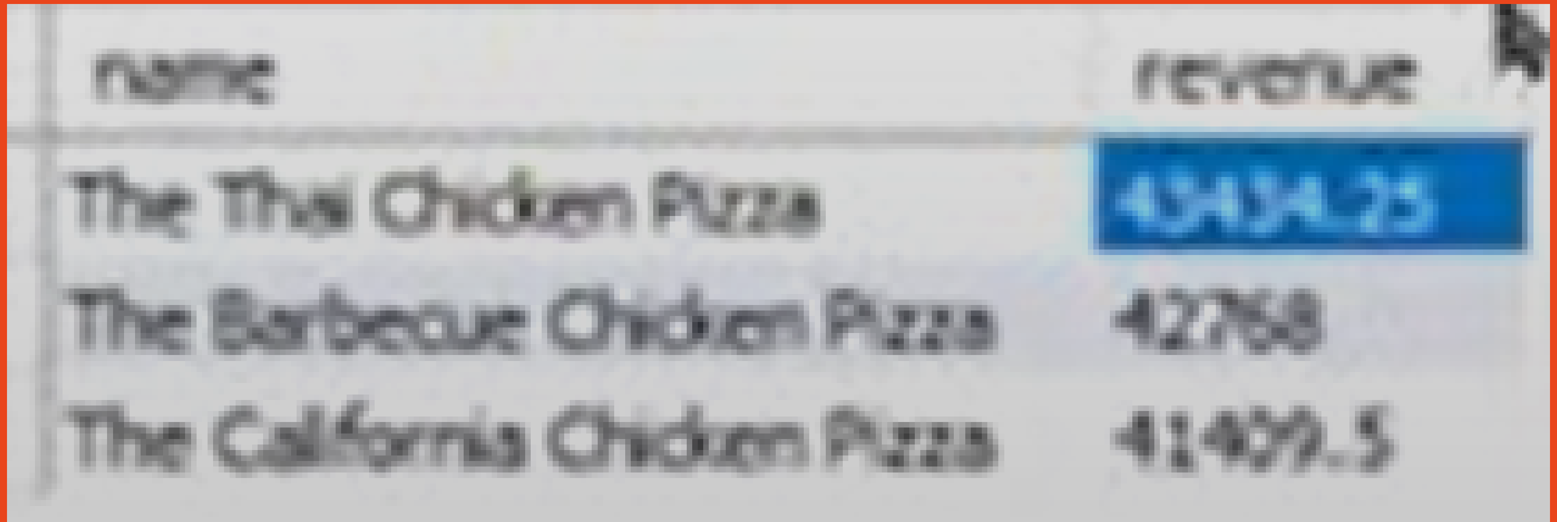
Determine the top 3 most ordered pizza types based on revenue.

QUERY



```
select pizza_types.name,
sum(order_details.quantity * pizzas.price) as revenue
from pizza_types join 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;
```

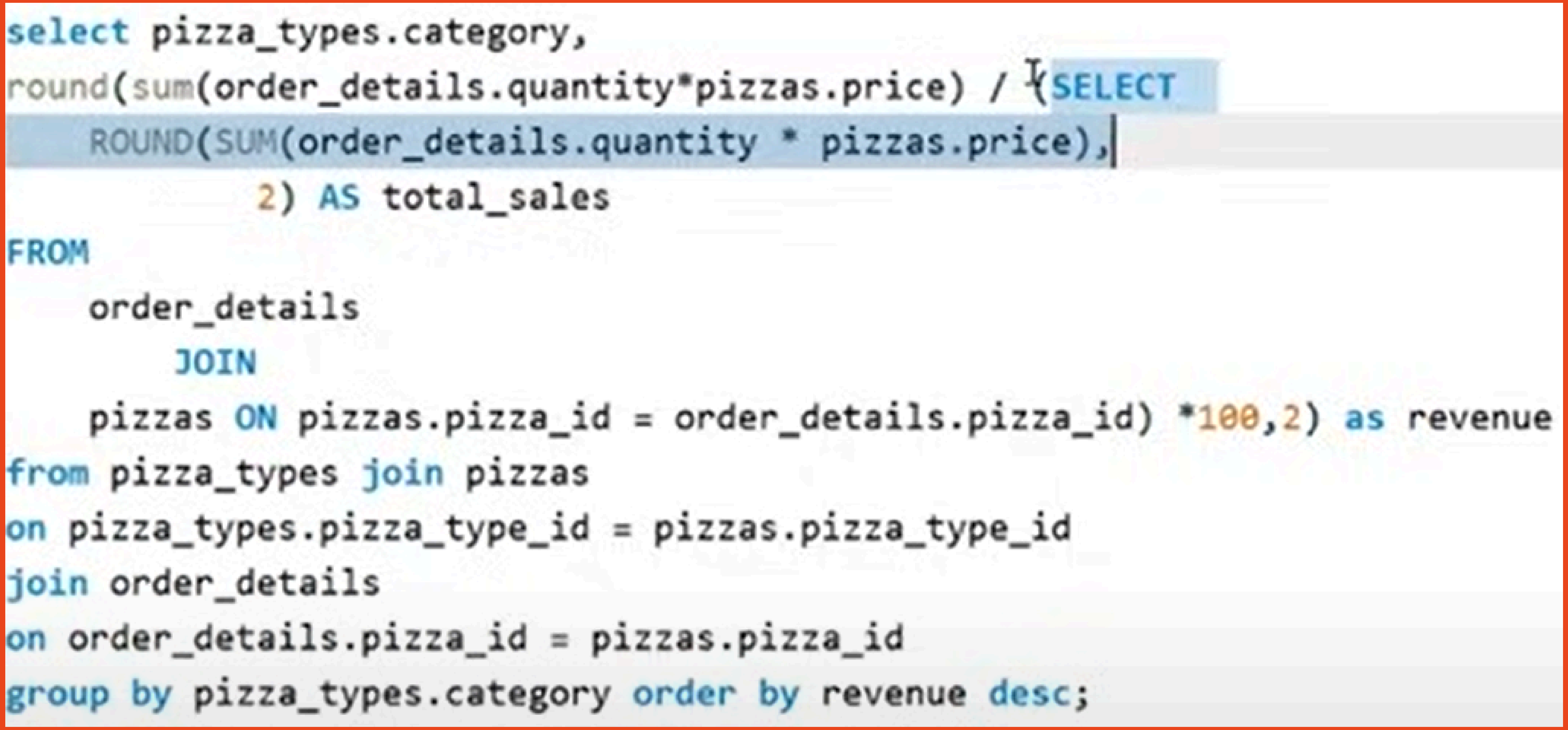
OUTPUT



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

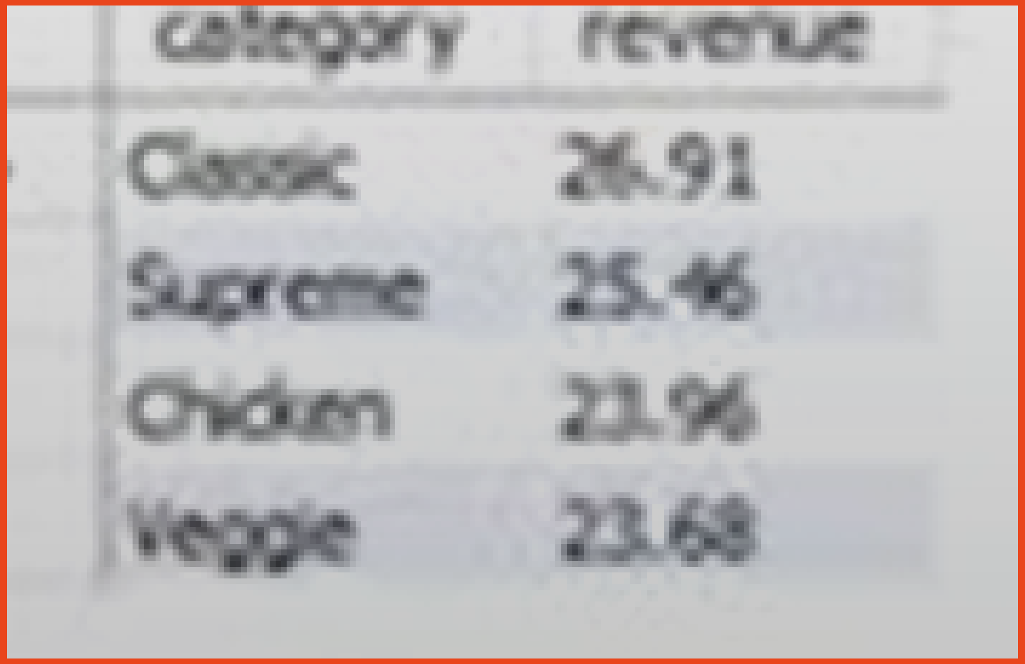
Calculate the percentage contribution of each pizza type to total revenue.

QUERY



```
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;
```

OUTPUT



```
category   revenue
Classic    26.91
Supreme    25.46
Chicken    23.96
Veggie     23.68
```

- **CONCLUSION**

- WE LEARNED DATA CLEANING AND TRANSFORMATION
- WE LEARNED HOW TO IMPORT CLEAN DATA TO MY SQL WORKBENCH.
- WE GET CLEANED DATA
- DEVELOPED PROBLEM SOLVING SKILLES BY RUNNING SQL QUERY
- WE GOT DATA INSIGHTS

THANK YOU