SHODWE
Pizza Resto

Home About Contact

PIZZA RESTO

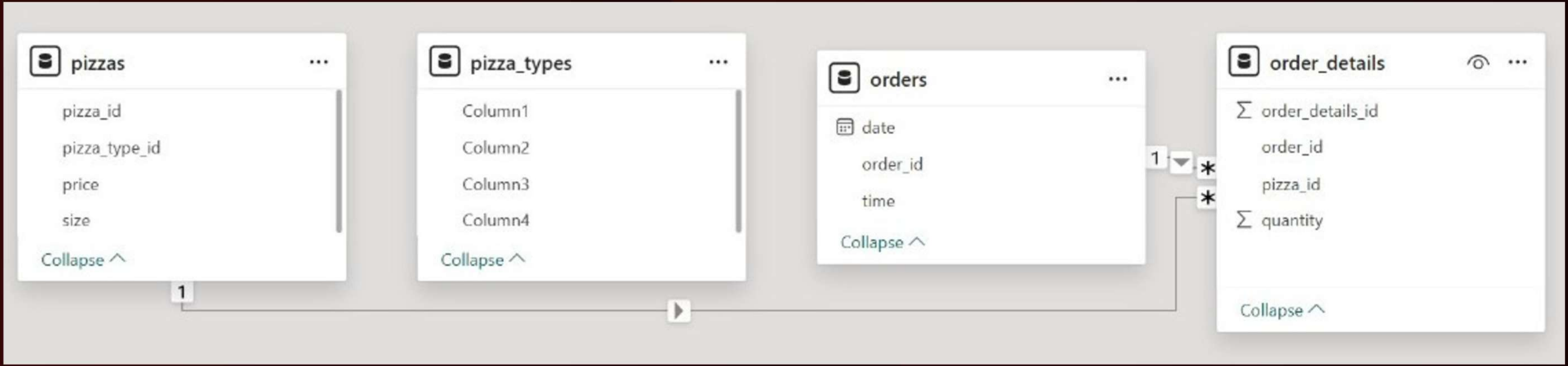
- WHERE EVERY SLICE TELLS A STORY

HELLO !

I am Suhani Choudhari. In this project I have utilize SQL query to solve questions that related to pizza sales and used Power BI for schema.

SHODWE
Pizza Resto

SCHEMA OF PIZZA



pizzas
- pizza_id
- pizza_type_id
- price
- size

pizza_types
- Column1
- Column2
- Column3
- Column4

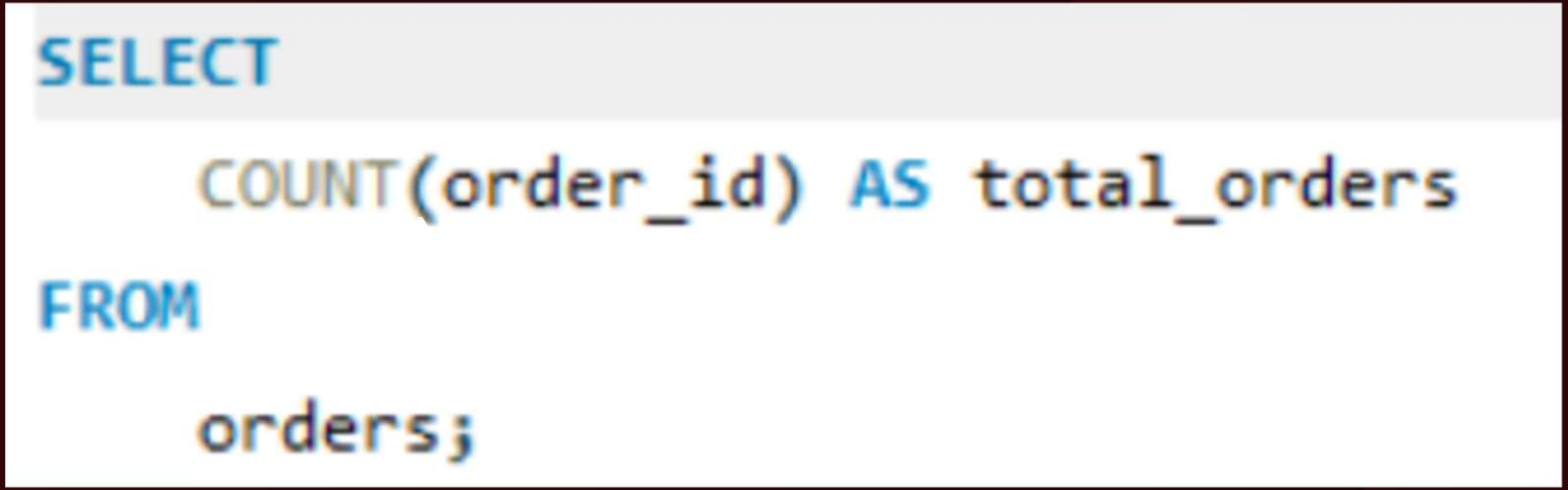
orders
- date
- order_id
- time

order_details
- order_details_id
- order_id
- pizza_id
- quantity

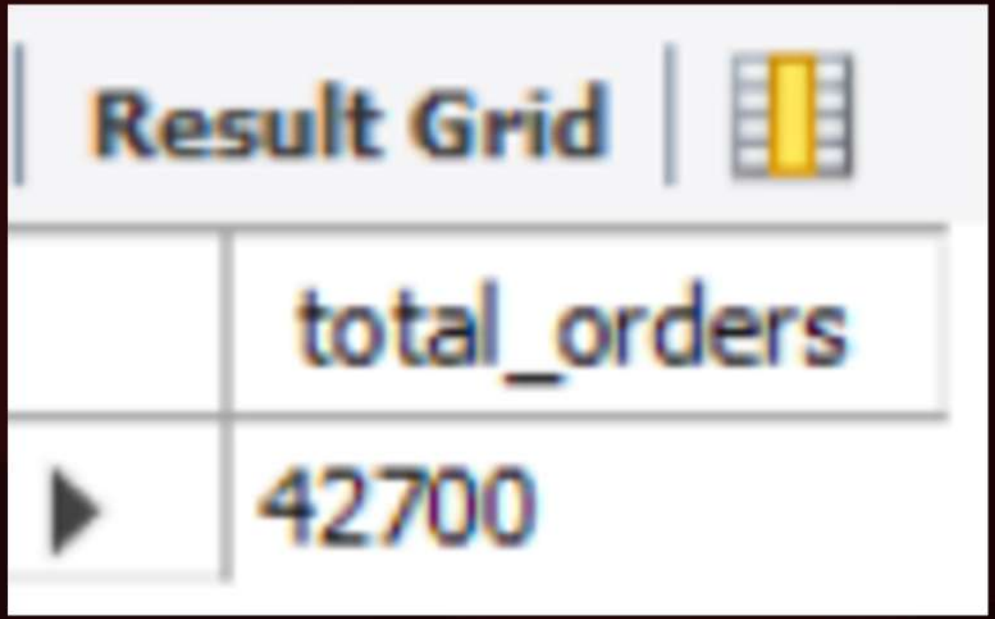
SHODWE
Pizza Resto

Home

RETRIEVE THE TOTAL NUMBER OF ORDERS PLACED



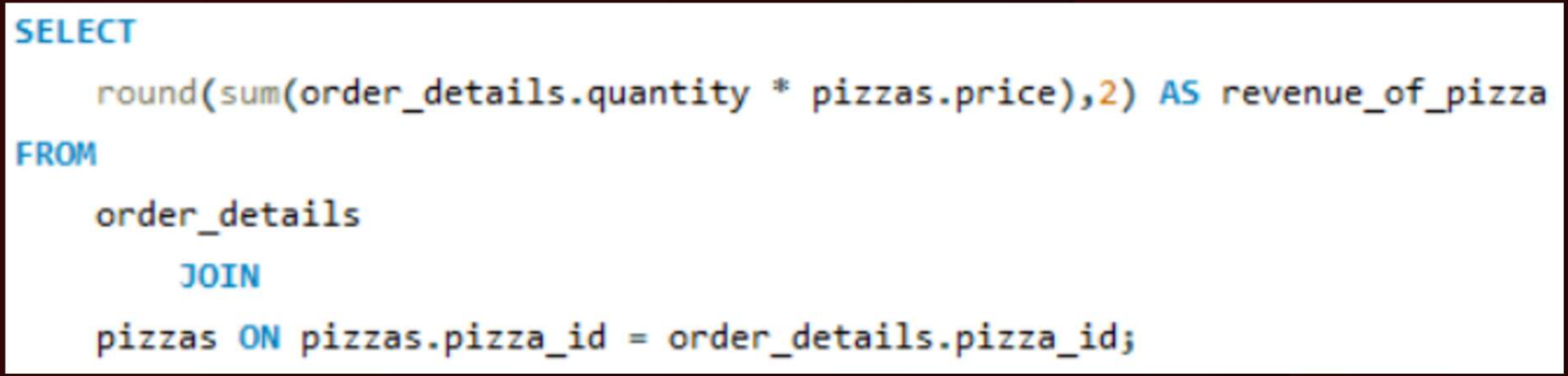
```
SELECT
    COUNT(order_id) AS total_orders
FROM
    orders;
```



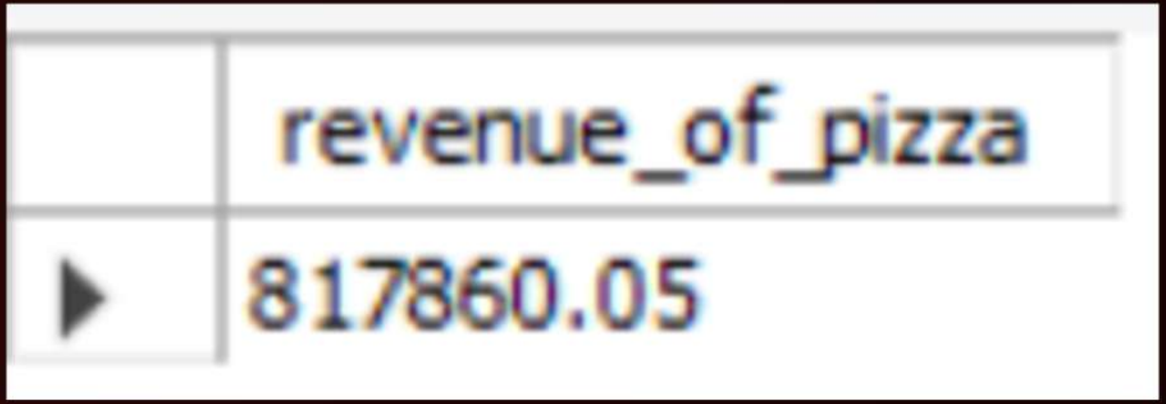
```
total_orders
42700
```

SHODWE
Pizza Resto

CALCULATE THE TOTAL REVENUE GENERATED FROM PIZZA SALES.



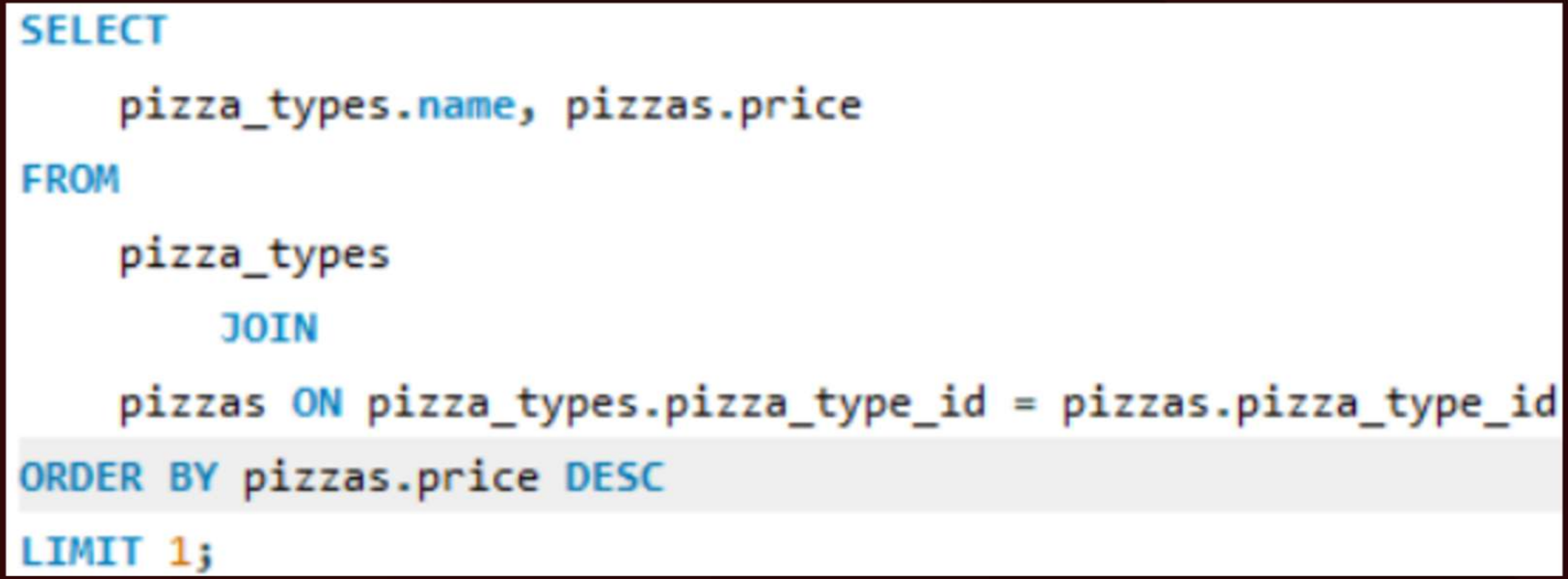
```sql
SELECT
    round(sum(order_details.quantity * pizzas.price),2) AS revenue_of_pizza
FROM
    order_details
        JOIN
    pizzas ON pizzas.pizza_id = order_details.pizza_id;
```



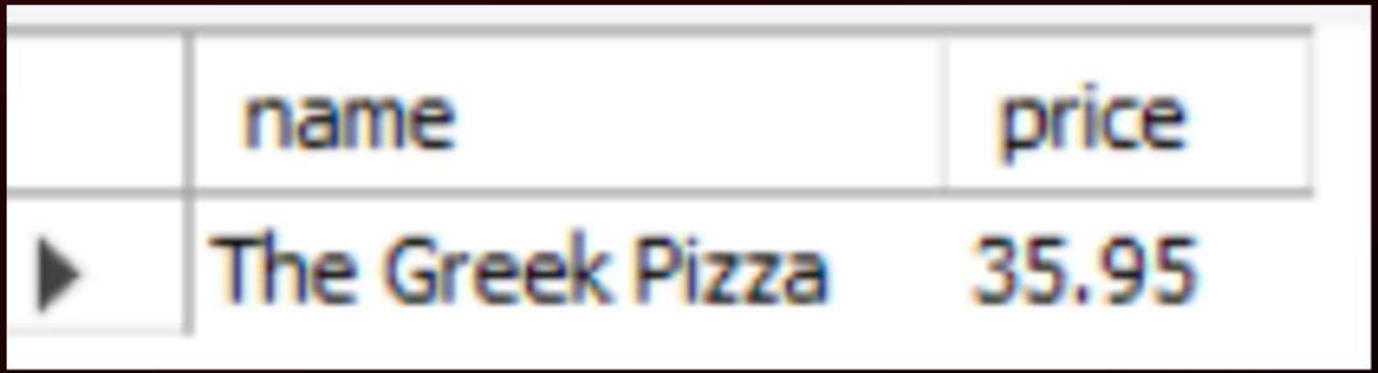
	revenue_of_pizza
▶	817860.05

SHODWE
Pizza Resto

IDENTIFY THE HIGHEST-PRICED PIZZA.

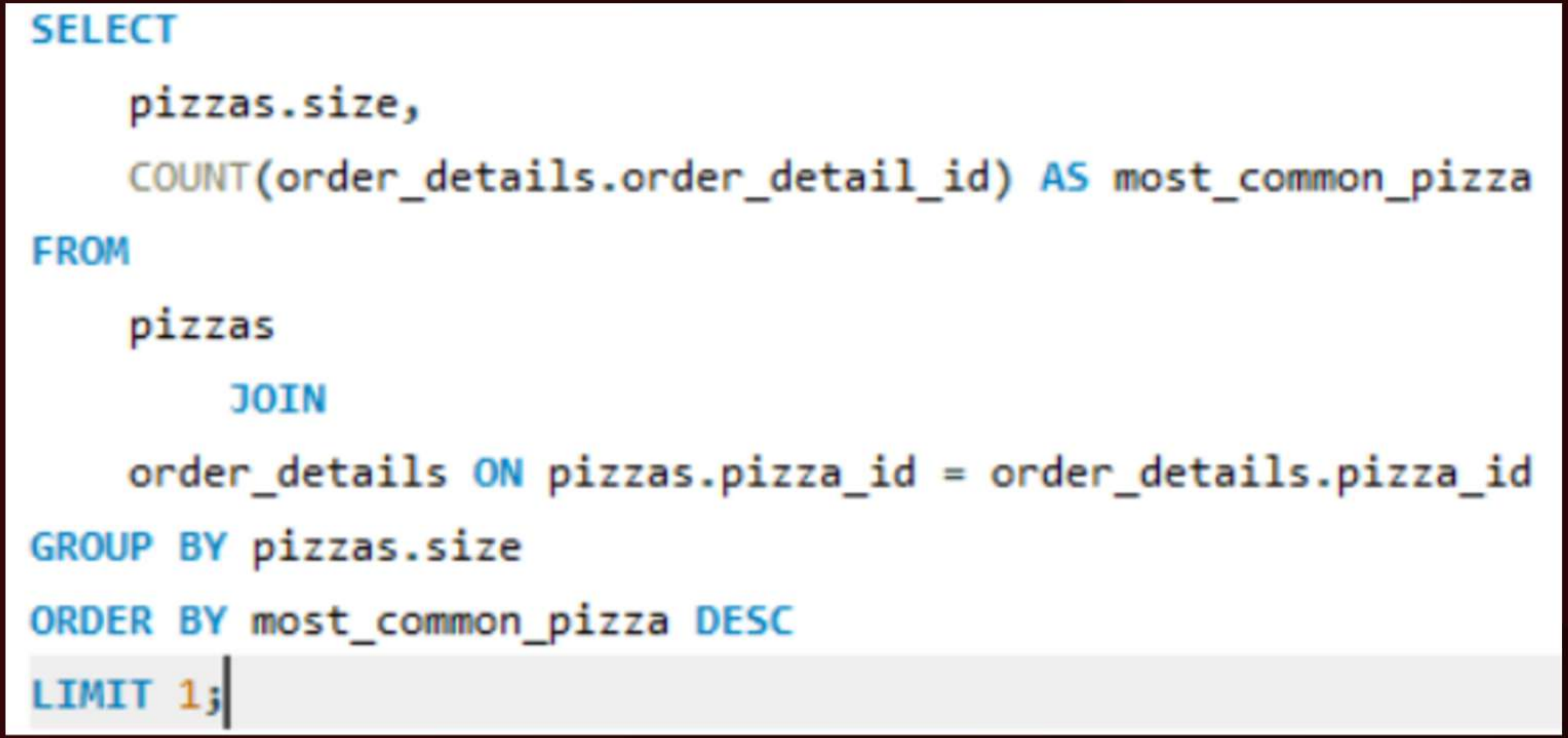


```
SELECT
    pizza_types.name, pizzas.price
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
ORDER BY pizzas.price DESC
LIMIT 1;
```

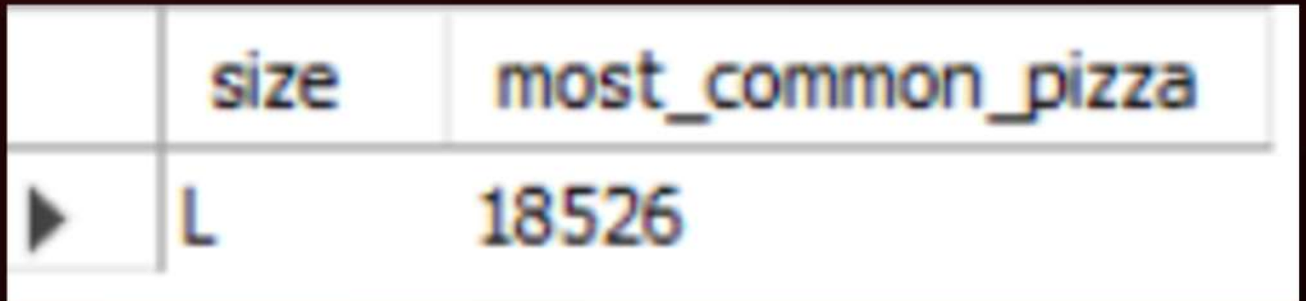


	name	price
▶	The Greek Pizza	35.95

IDENTIFY THE MOST COMMON PIZZA SIZE ORDERED.



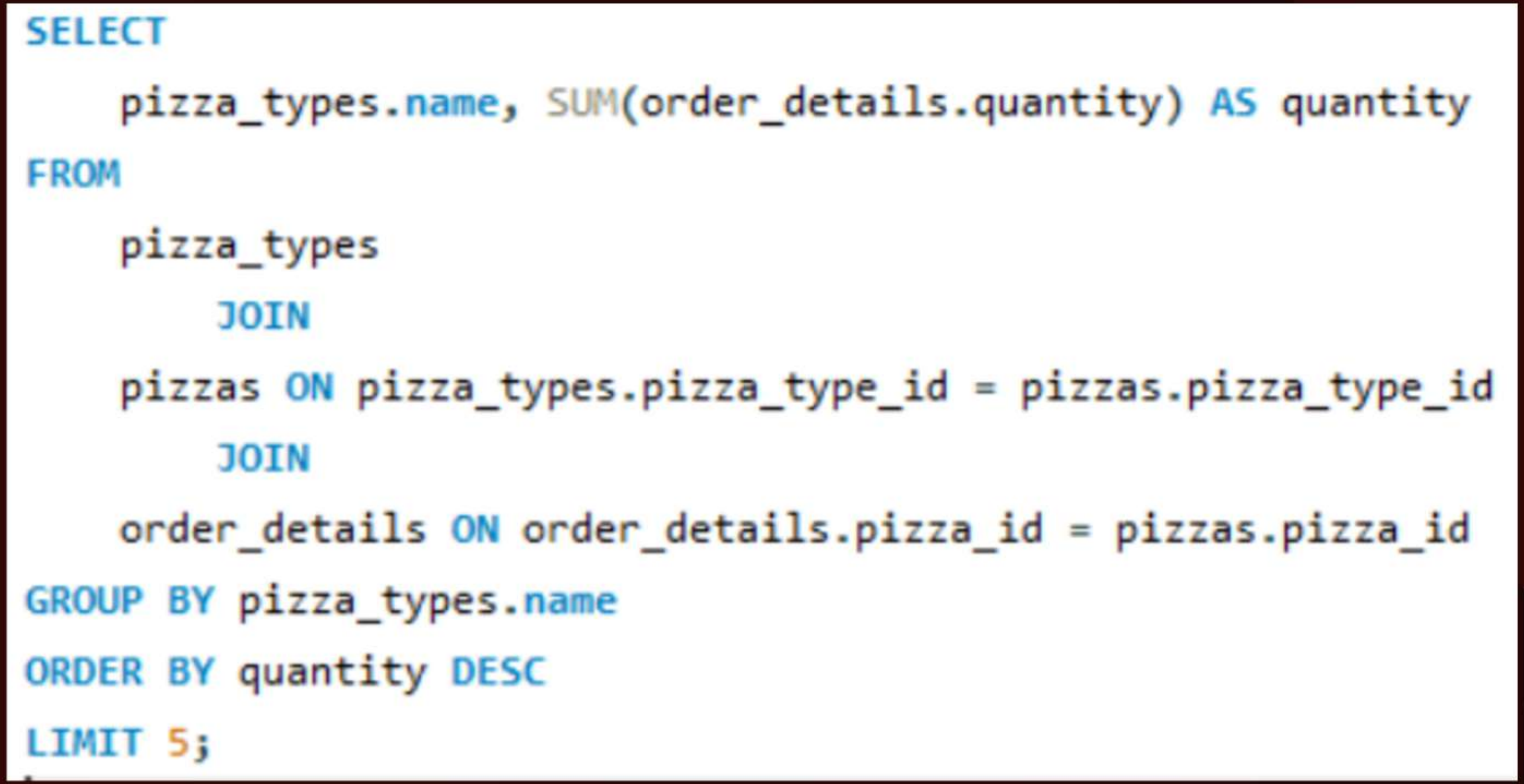
```
SELECT
    pizzas.size,
    COUNT(order_details.order_detail_id) AS most_common_pizza
FROM
    pizzas
        JOIN
    order_details ON pizzas.pizza_id = order_details.pizza_id
GROUP BY pizzas.size
ORDER BY most_common_pizza DESC
LIMIT 1;
```



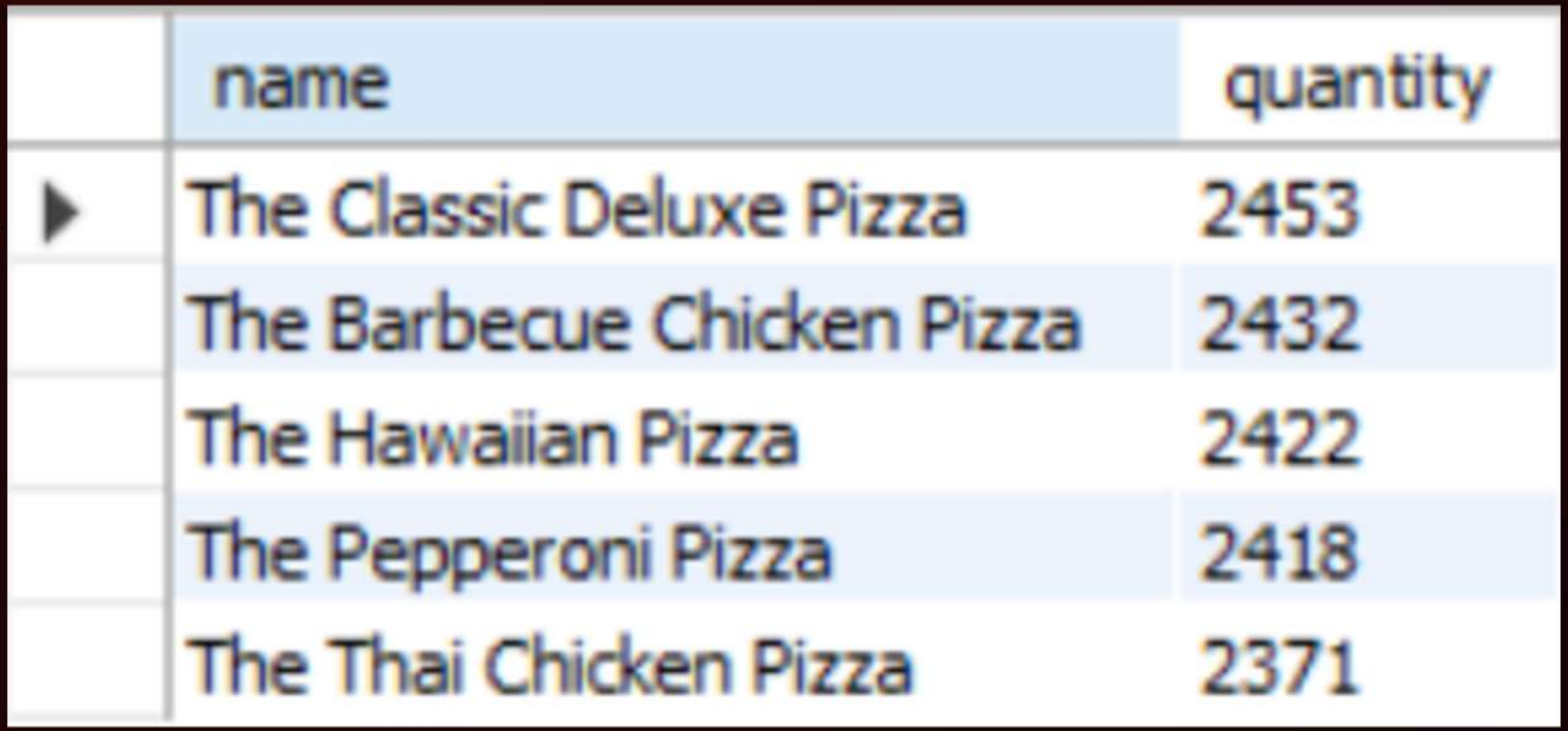
size	most_common_pizza
L	18526

SHODWE
Pizza Resto

LIST THE TOP 5 MOST ORDERED PIZZA TYPES ALONG WITH THEIR QUANTITIES.



```sql
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;
```

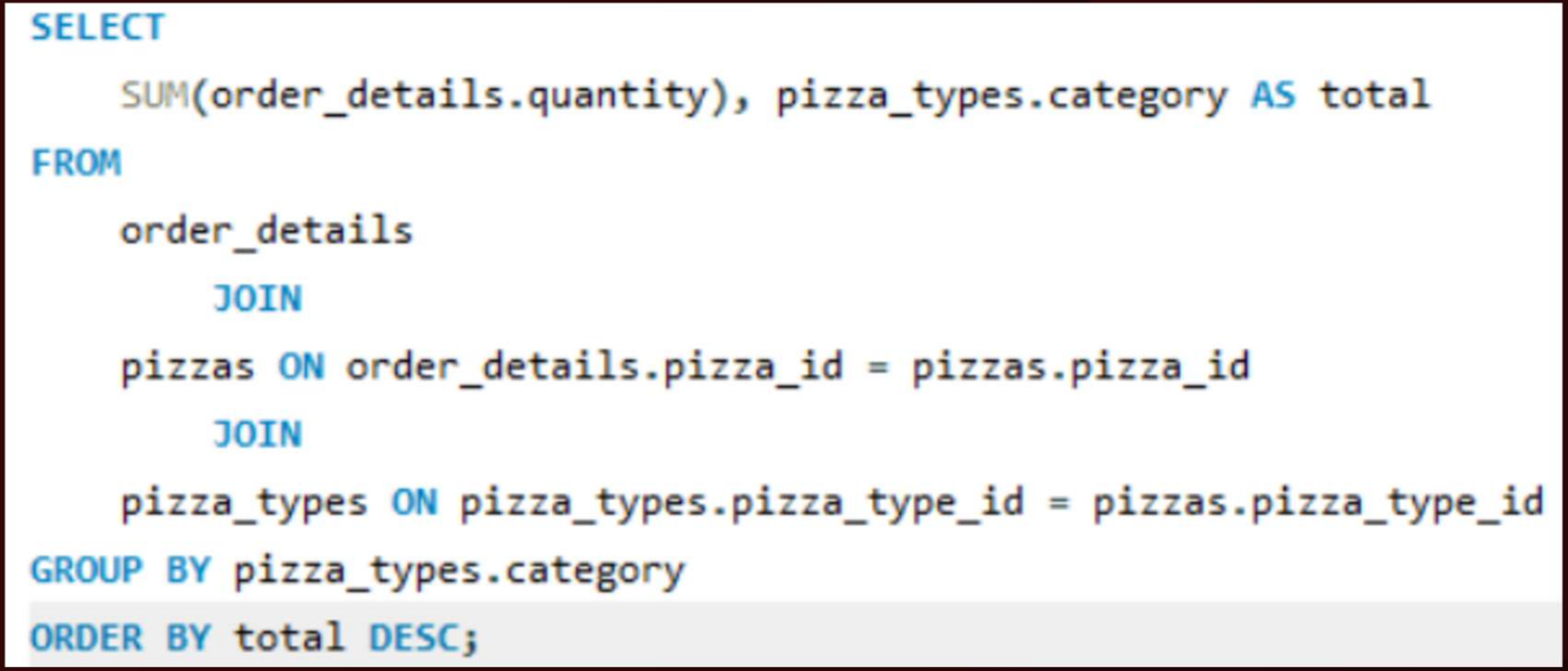


name	quantity
The Classic Deluxe Pizza	2453
The Barbecue Chicken Pizza	2432
The Hawaiian Pizza	2422
The Pepperoni Pizza	2418
The Thai Chicken Pizza	2371

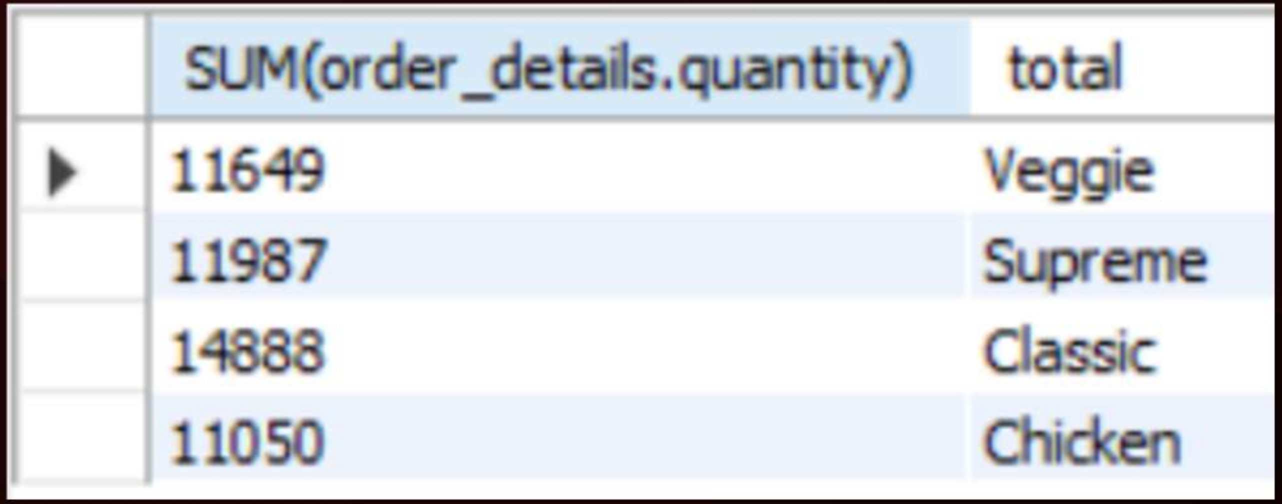
SHODWE

Pizza Resto

JOIN THE NECESSARY TABLES TO FIND THE TOTAL QUANTITY OF EACH PIZZA CATEGORY ORDERED.



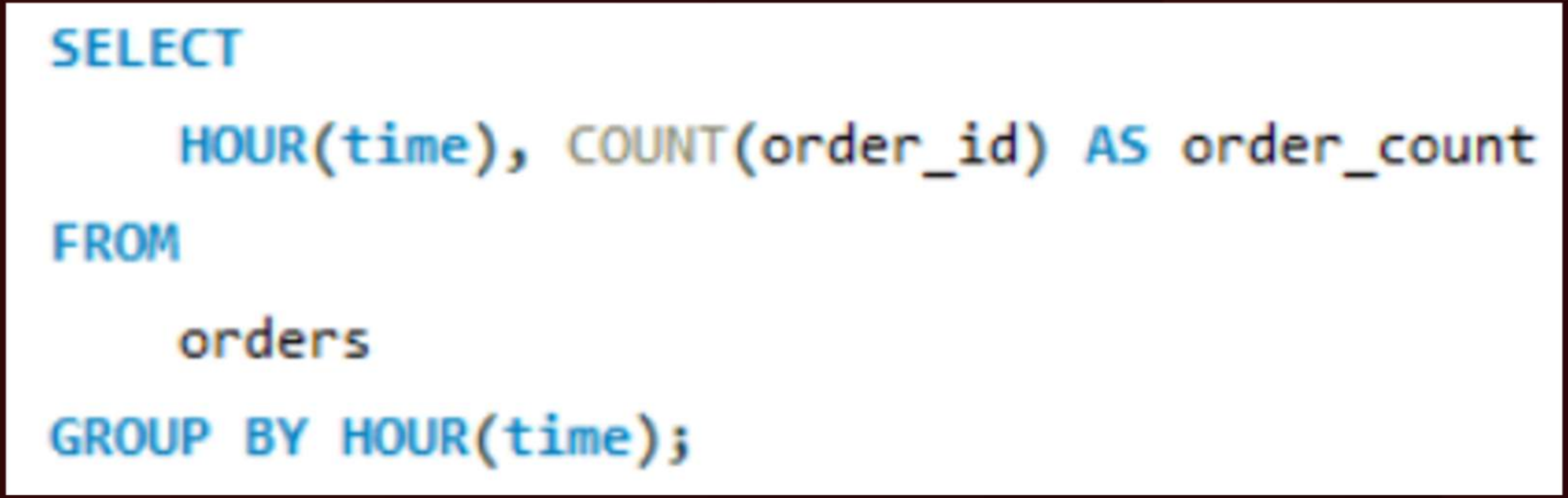
```
SELECT
    SUM(order_details.quantity), pizza_types.category AS total
FROM
    order_details
        JOIN
    pizzas ON order_details.pizza_id = pizzas.pizza_id
        JOIN
    pizza_types ON pizza_types.pizza_type_id = pizzas.pizza_type_id
GROUP BY pizza_types.category
ORDER BY total DESC;
```



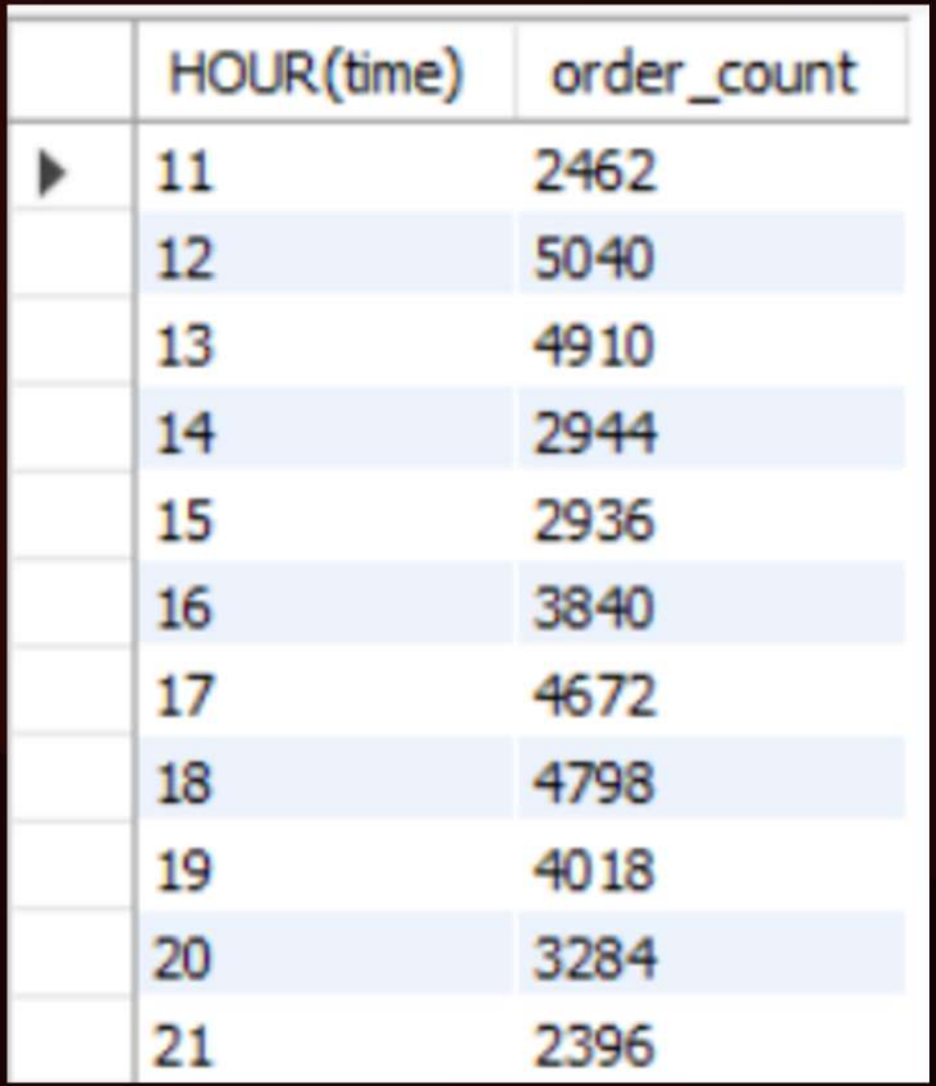
SUM(order_details.quantity)	total
11649	Veggie
11987	Supreme
14888	Classic
11050	Chicken

SHODWE
Pizza Resto

DETERMINE THE DISTRIBUTION OF ORDERS BY HOUR OF THE DAY.



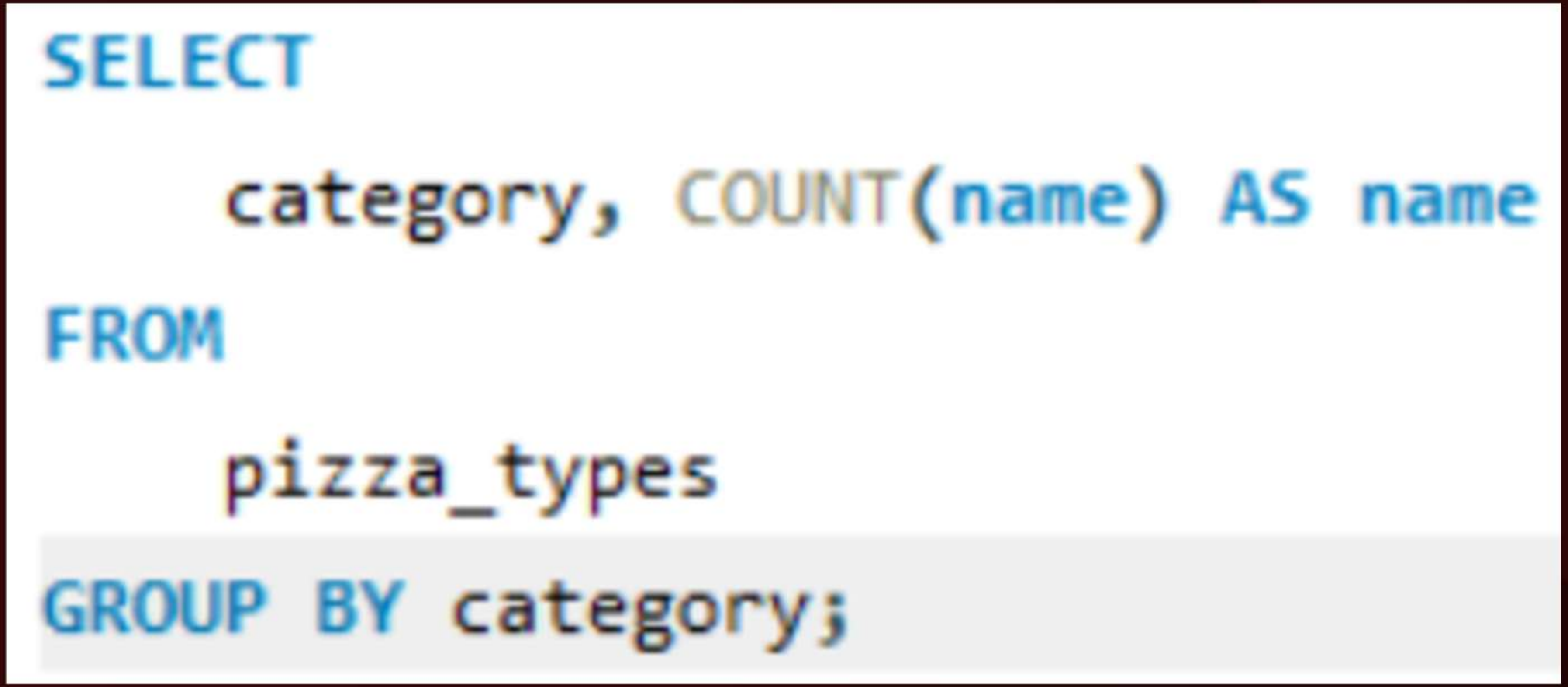
```
SELECT
    HOUR(time), COUNT(order_id) AS order_count
FROM
    orders
GROUP BY HOUR(time);
```



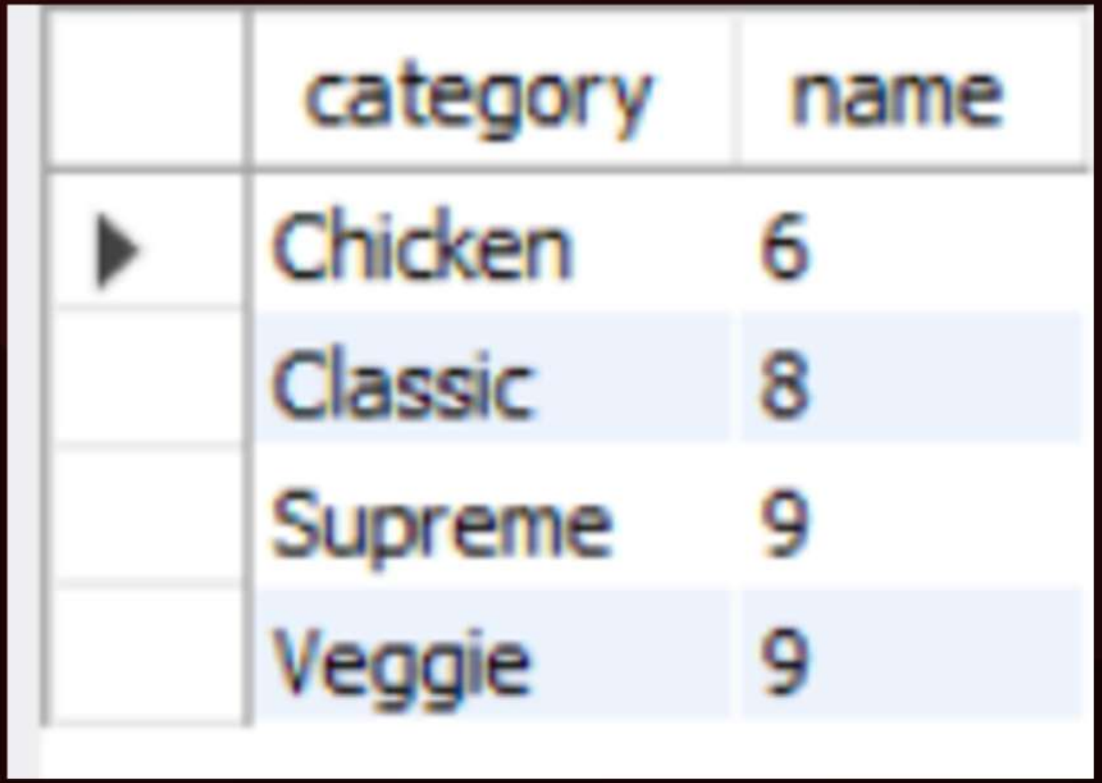
HOUR(time)	order_count
11	2462
12	5040
13	4910
14	2944
15	2936
16	3840
17	4672
18	4798
19	4018
20	3284
21	2396

SHODWE
Pizza Resto

JOIN RELEVANT TABLES TO FIND THE CATEGORY-WISE DISTRIBUTION OF PIZZAS.



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

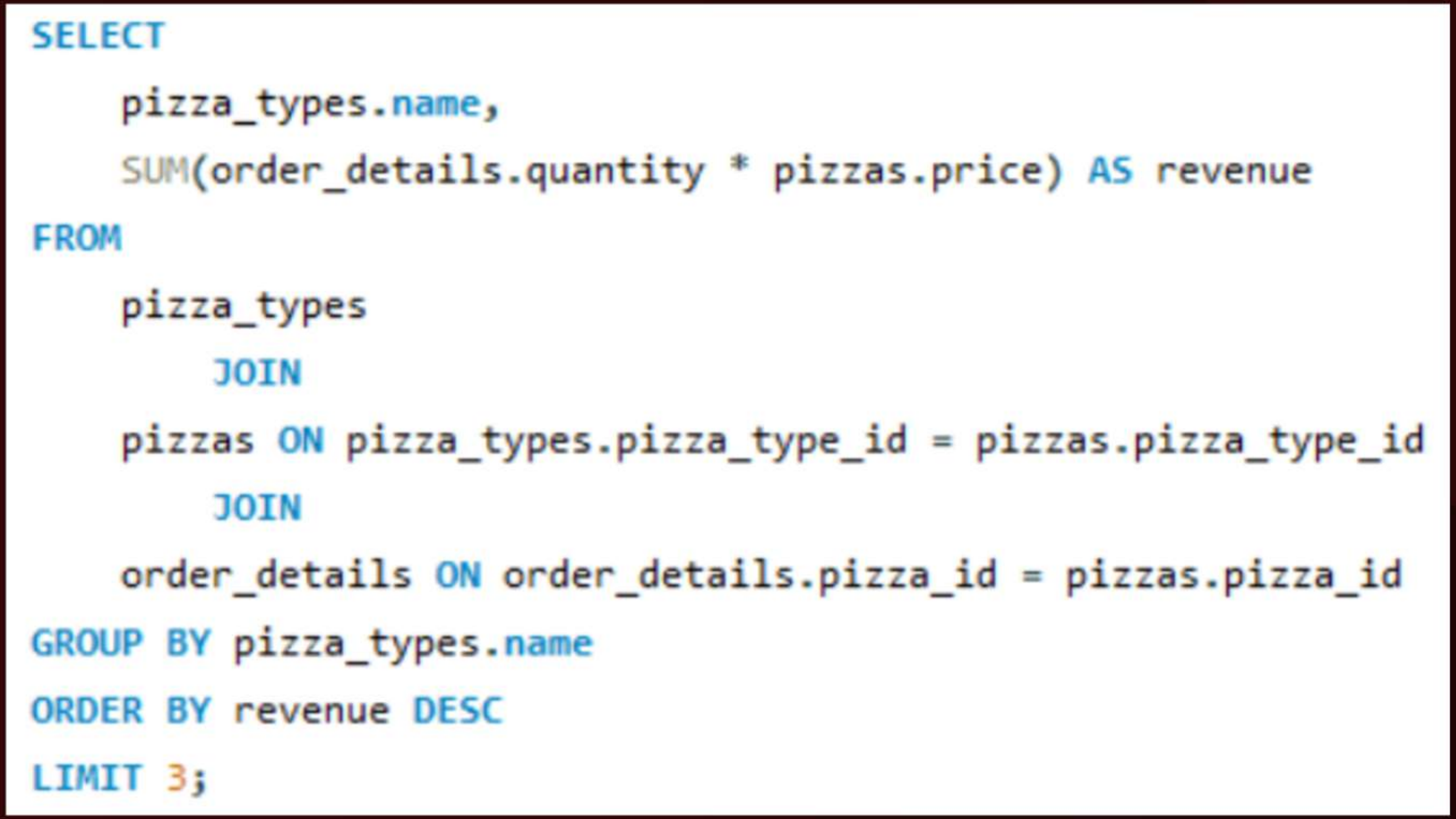


category	name
Chicken	6
Classic	8
Supreme	9
Veggie	9

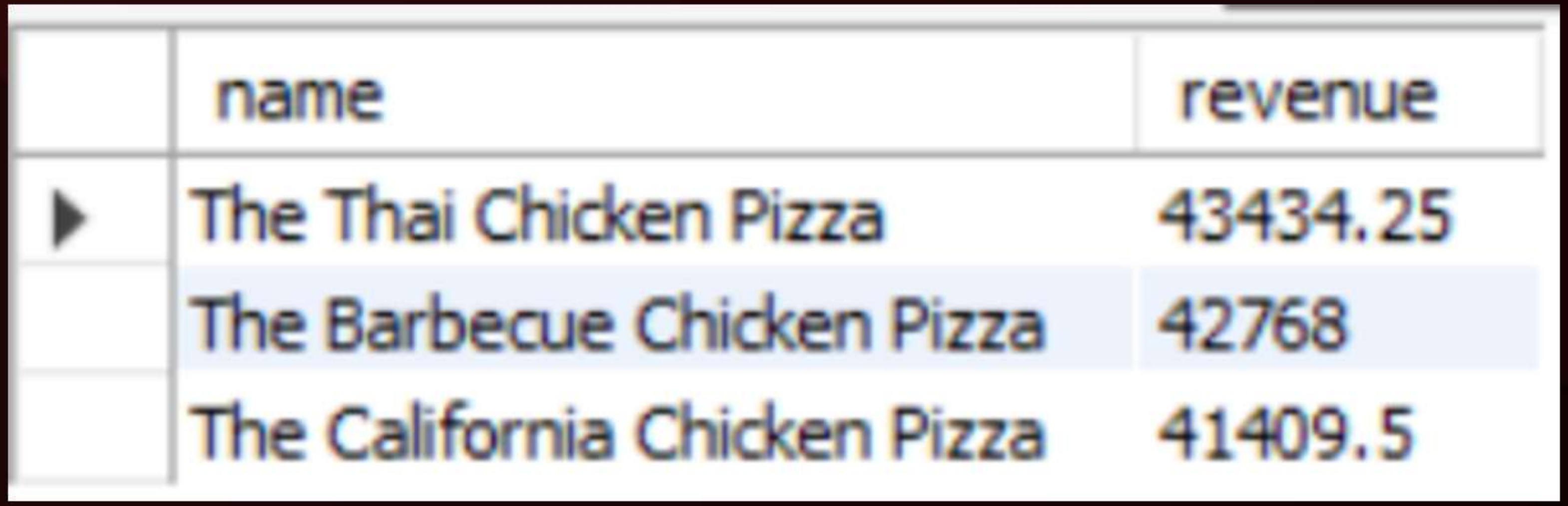
SHODWE
Pizza Resto

Home

DETERMINE THE TOP 3 MOST ORDERED PIZZA TYPES BASED ON REVENUE.



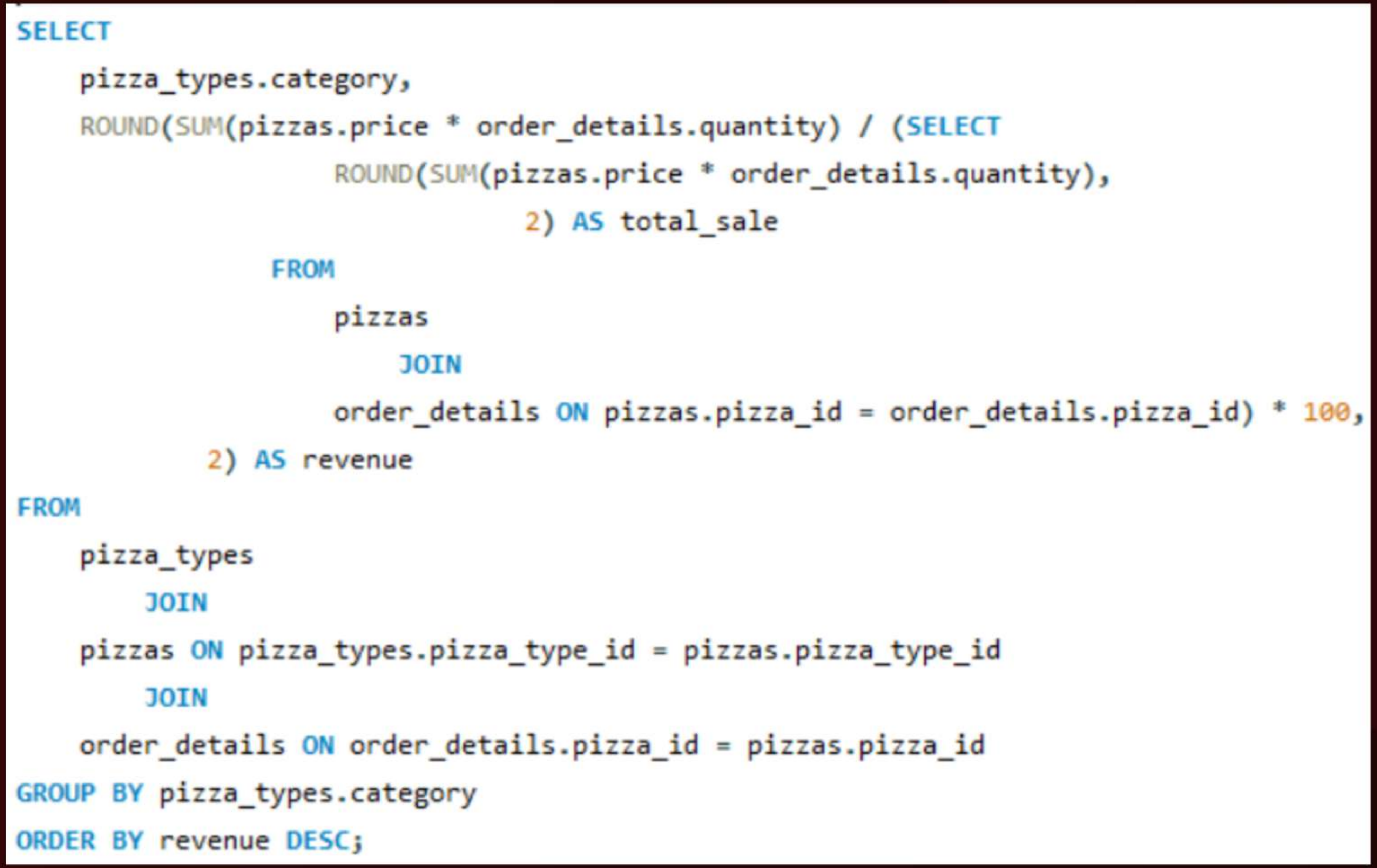
```
SELECT
    pizza_types.name,
    SUM(order_details.quantity * pizzas.price) AS revenue
FROM
    pizza_types
        JOIN
    pizzas ON pizza_types.pizza_type_id = pizzas.pizza_type_id
        JOIN
    order_details ON order_details.pizza_id = pizzas.pizza_id
GROUP BY pizza_types.name
ORDER BY revenue DESC
LIMIT 3;
```



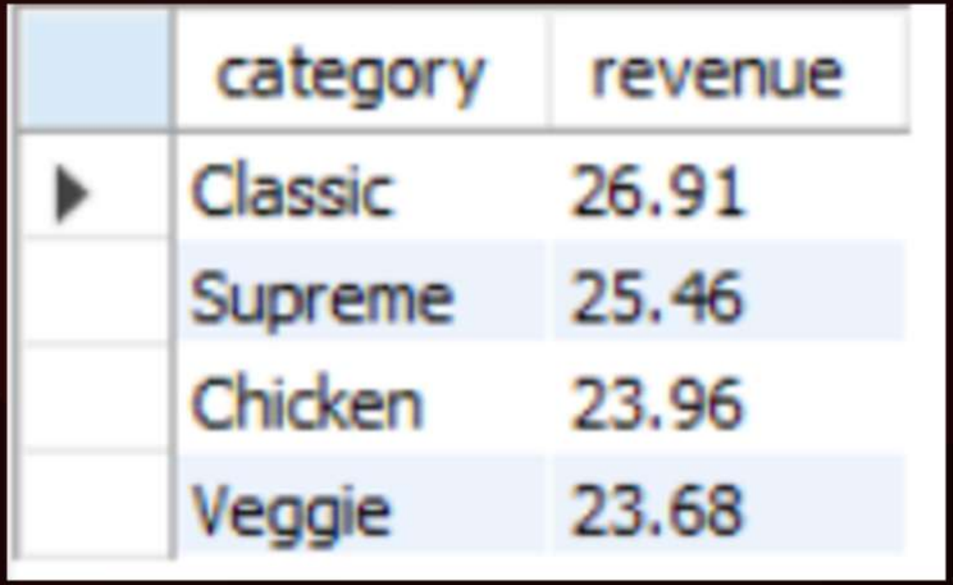
	name	revenue
▶	The Thai Chicken Pizza	43434.25
	The Barbecue Chicken Pizza	42768
	The California Chicken Pizza	41409.5

SHODWE
Pizza Resto

CALCULATE THE PERCENTAGE CONTRIBUTION OF EACH PIZZA TYPE TO TOTAL REVENUE.



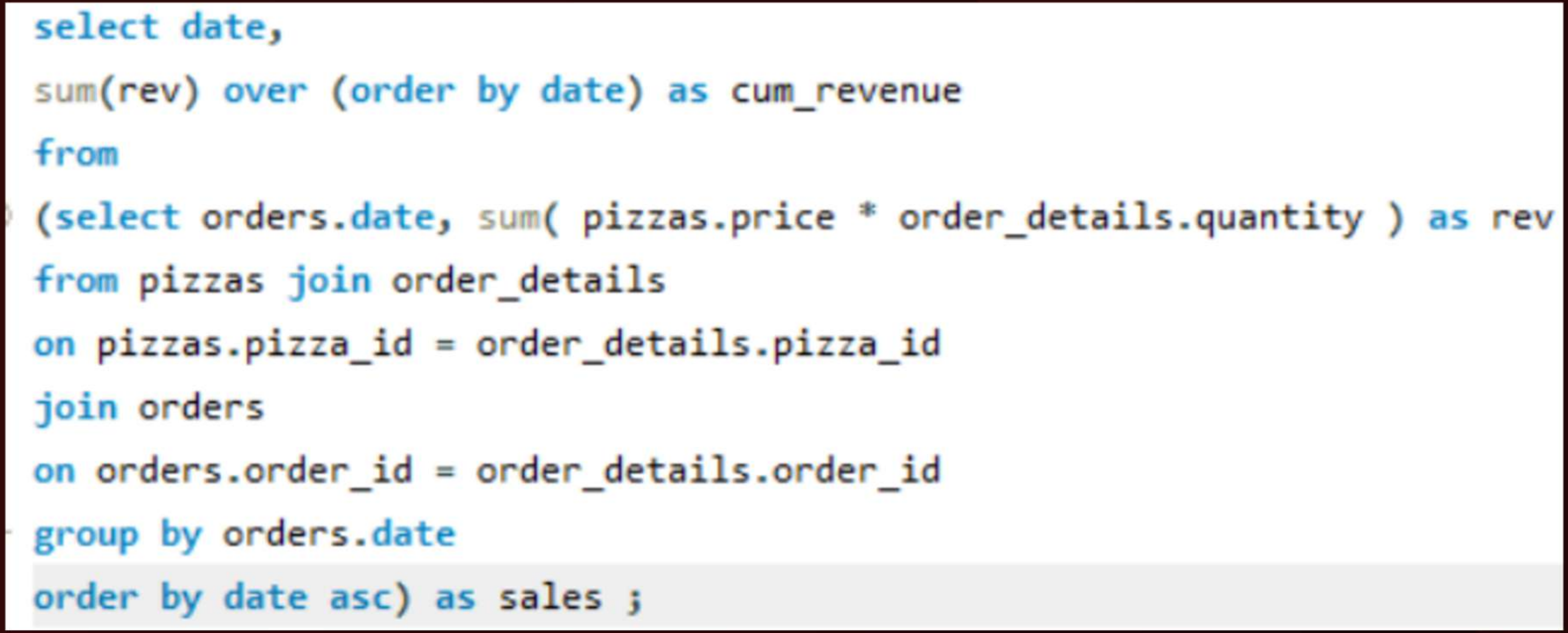
```
SELECT
    pizza_types.category,
    ROUND(SUM(pizzas.price * order_details.quantity) / (SELECT
                    ROUND(SUM(pizzas.price * order_details.quantity),
                                2) AS total_sale
                FROM
                    pizzas
                        JOIN
                    order_details 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;
```



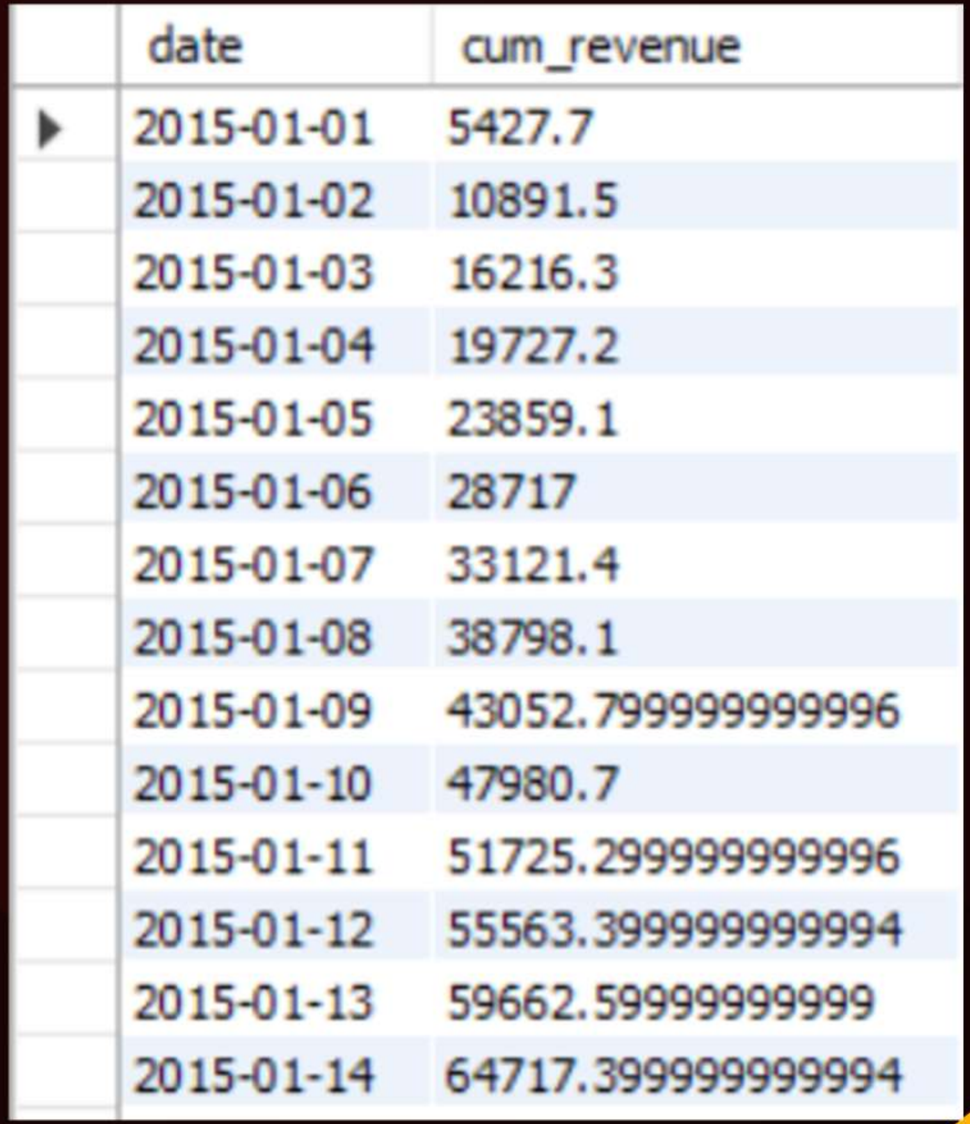
	category	revenue
▶	Classic	26.91
	Supreme	25.46
	Chicken	23.96
	Veggie	23.68

SHODWE
Pizza Resto

ANALYZE THE CUMULATIVE REVENUE GENERATED OVER TIME.



```
select date,
sum(rev) over (order by date) as cum_revenue
from
(select orders.date, sum( pizzas.price * order_details.quantity ) as rev
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.date
order by date asc) as sales ;
```

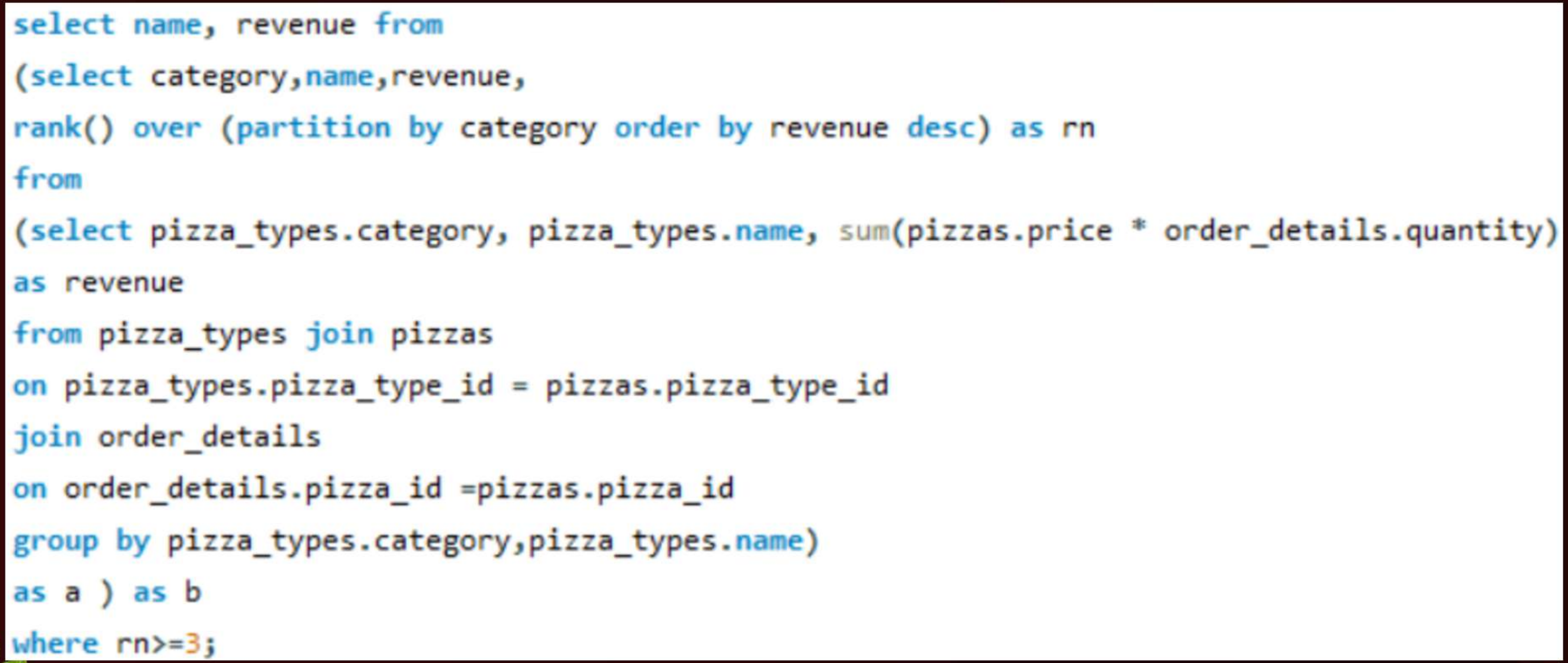


date	cum_revenue
2015-01-01	5427.7
2015-01-02	10891.5
2015-01-03	16216.3
2015-01-04	19727.2
2015-01-05	23859.1
2015-01-06	28717
2015-01-07	33121.4
2015-01-08	38798.1
2015-01-09	43052.79999999996
2015-01-10	47980.7
2015-01-11	51725.29999999996
2015-01-12	55563.39999999994
2015-01-13	59662.59999999999
2015-01-14	64717.39999999994

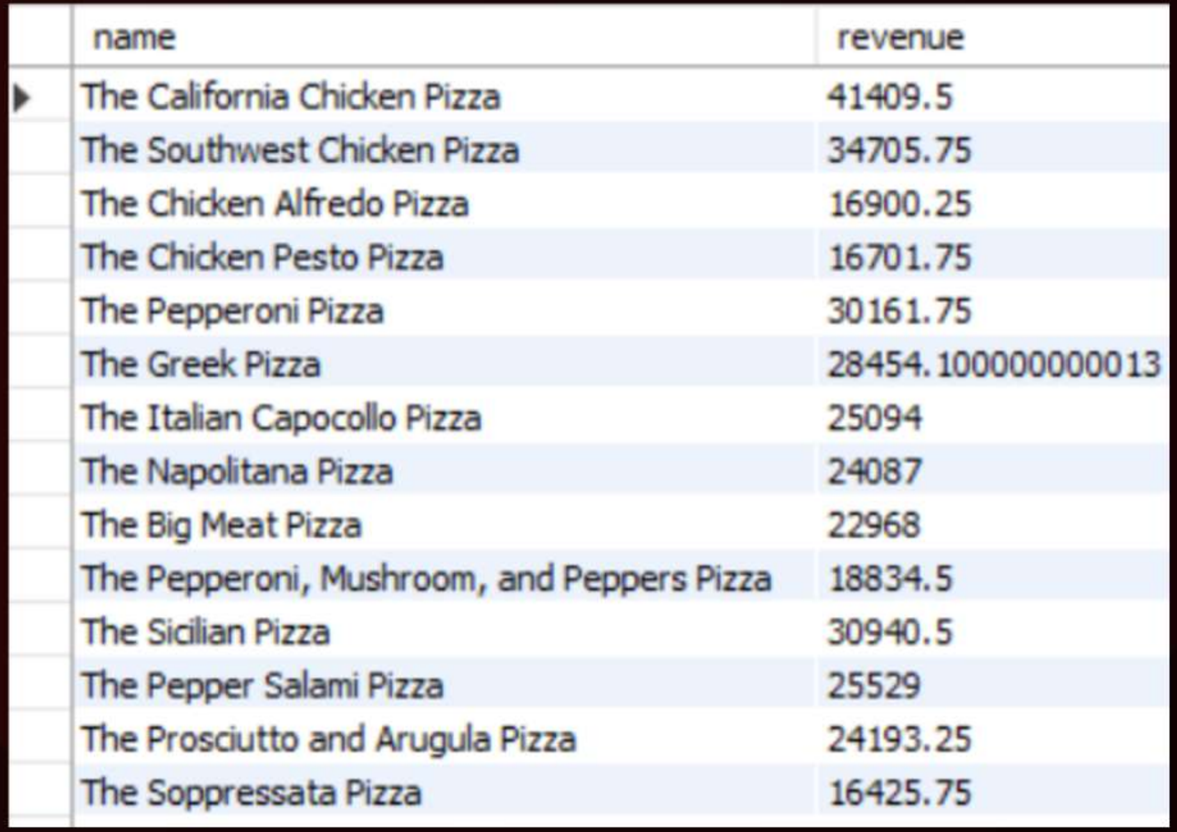
SHODWE
Pizza Resto

Home

DETERMINE THE 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) as rn
from
(select pizza_types.category, 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.category,pizza_types.name)
as a ) as b
where rn>=3;
```



name	revenue
The California Chicken Pizza	41409.5
The Southwest Chicken Pizza	34705.75
The Chicken Alfredo Pizza	16900.25
The Chicken Pesto Pizza	16701.75
The Pepperoni Pizza	30161.75
The Greek Pizza	28454.100000000013
The Italian Capocollo Pizza	25094
The Napolitana Pizza	24087
The Big Meat Pizza	22968
The Pepperoni, Mushroom, and Peppers Pizza	18834.5
The Sicilian Pizza	30940.5
The Pepper Salami Pizza	25529
The Prosciutto and Arugula Pizza	24193.25
The Soppressata Pizza	16425.75

SHODWE
Pizza Resto

About Contact

DATA SOURCE

OUR PROJECT UTILIZES A COMPREHENSIVE PIZZA SALES DATASET, TYPICALLY IN A STRUCTURED FORMAT LIKE CSV FILES OR AN SQL DATABASE. THIS DATASET USUALLY COMPRISES SEVERAL INTERCONNECTED TABLES:

- ORDERS: CONTAINS UNIQUE ORDER IDS, DATES, AND TIMES.
- ORDER DETAILS: LINKS ORDERS TO SPECIFIC PIZZAS, INCLUDING ORDER_DETAILS_ID, PIZZA_ID, AND QUANTITY.
- PIZZAS: STORES DETAILS ABOUT EACH SPECIFIC PIZZA, LIKE PIZZA_TYPE_ID, SIZE, AND PRICE.
- PIZZA TYPES: PROVIDES DESCRIPTIONS FOR EACH PIZZA TYPE, INCLUDING PIZZA_TYPE_ID, NAME, CATEGORY, AND INGREDIENTS.

TOOL USED

FOR THIS PROJECT, SQL (STRUCTURED QUERY LANGUAGE) WAS THE PRIMARY TOOL FOR DATA EXTRACTION, TRANSFORMATION, AND QUERYING FROM THE RELATIONAL PIZZA SALES DATABASE. IT ENABLED US TO PERFORM COMPLEX AGGREGATIONS AND DERIVE KEY METRICS. SUBSEQUENTLY, MICROSOFT POWER BI WAS UTILIZED FOR CREATING SCHEMA.

SHODWE
Pizza Resto

THANK YOU