SWIGGY CASE STUDY SQL

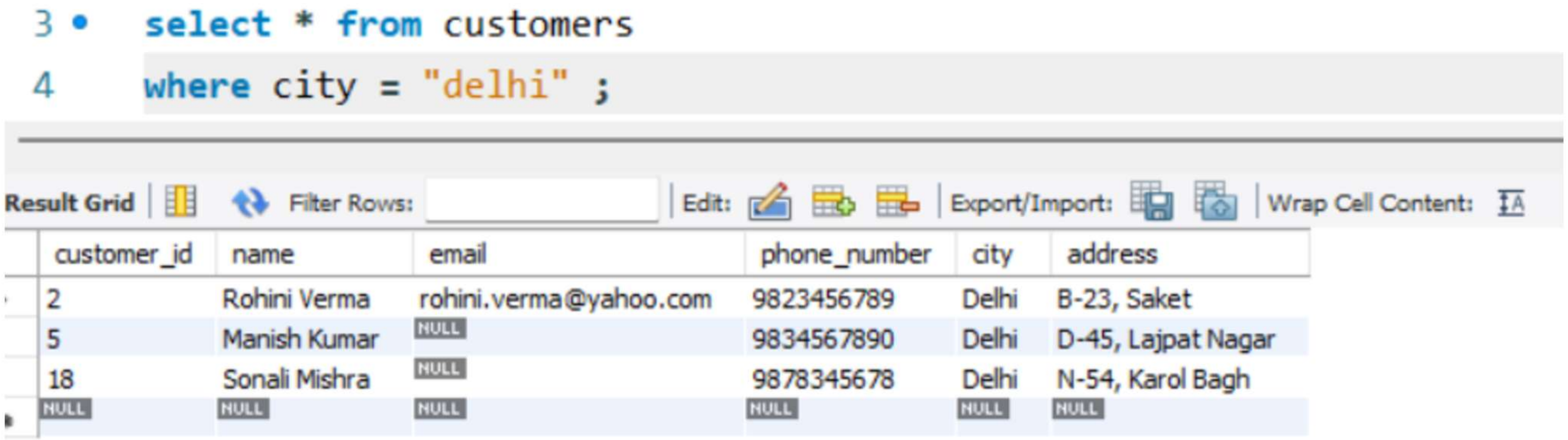
SWIGGY

These case Studie helped me to apply SQL in practical scenarios, improving problem-solving and help me to learn about how SQL can be used to handling data in real world.

Submitted by - Parth Mishra

1 Display all customers who live in 'Delhi'.

SELECT * FROM swiggy.customers;



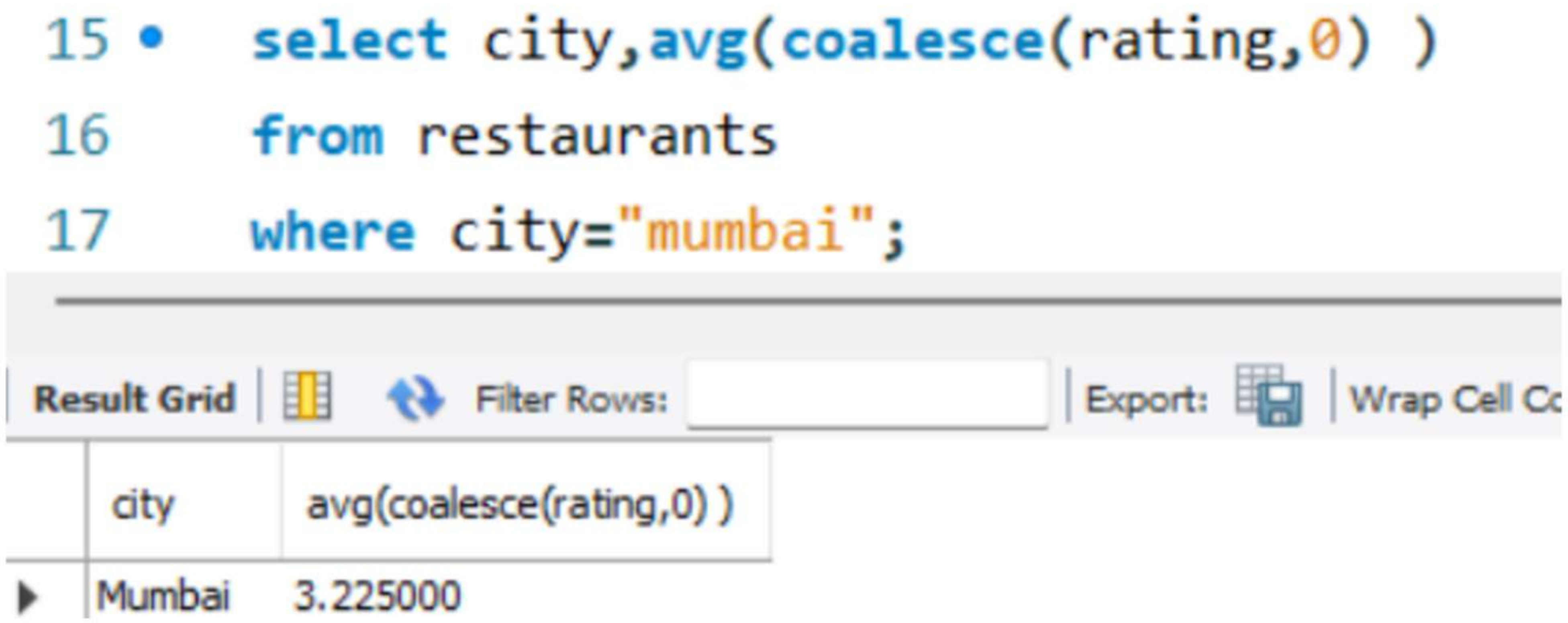
```
select * from customers
where city = "delhi" ;
```

customer_id	name	email	phone_number	city	address
2	Rohini Verma	rohini.verma@yahoo.com	9823456789	Delhi	B-23, Saket
5	Manish Kumar	NULL	9834567890	Delhi	D-45, Lajpat Nagar
18	Sonali Mishra	NULL	9878345678	Delhi	N-54, Karol Bagh
NULL	NULL	NULL	NULL	NULL	NULL

in this we can find the customers lives in “Delhi” using where **

2 Find the average rating of all restaurants in 'Mumbai'.

SELECT * FROM swiggy.customers;



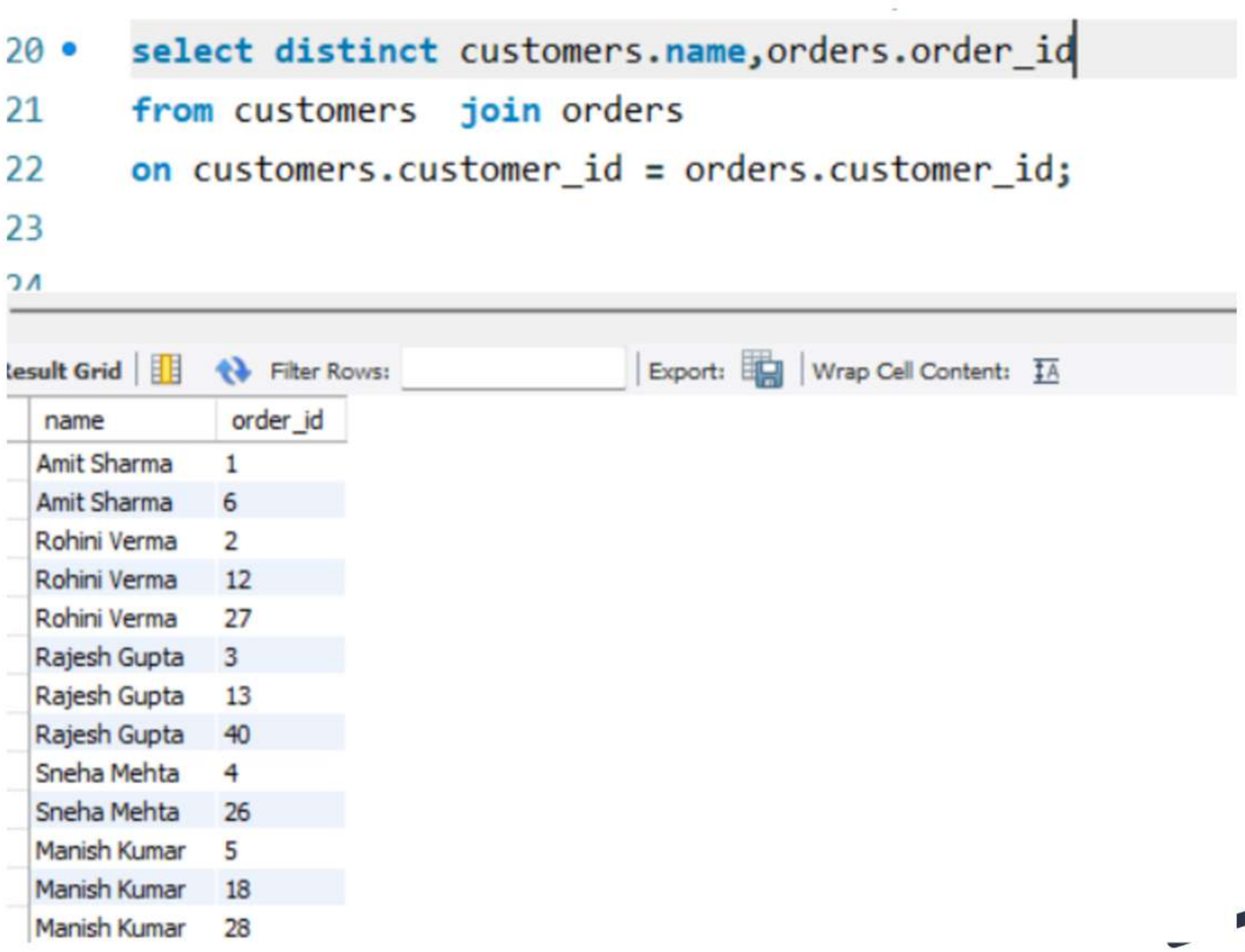
```sql
select city,avg(coalesce(rating,0) )
from restaurants
where city="mumbai";
```

```
city     avg(coalesce(rating,0) )
Mumbai   3.225000
```

use of coalesce - avg

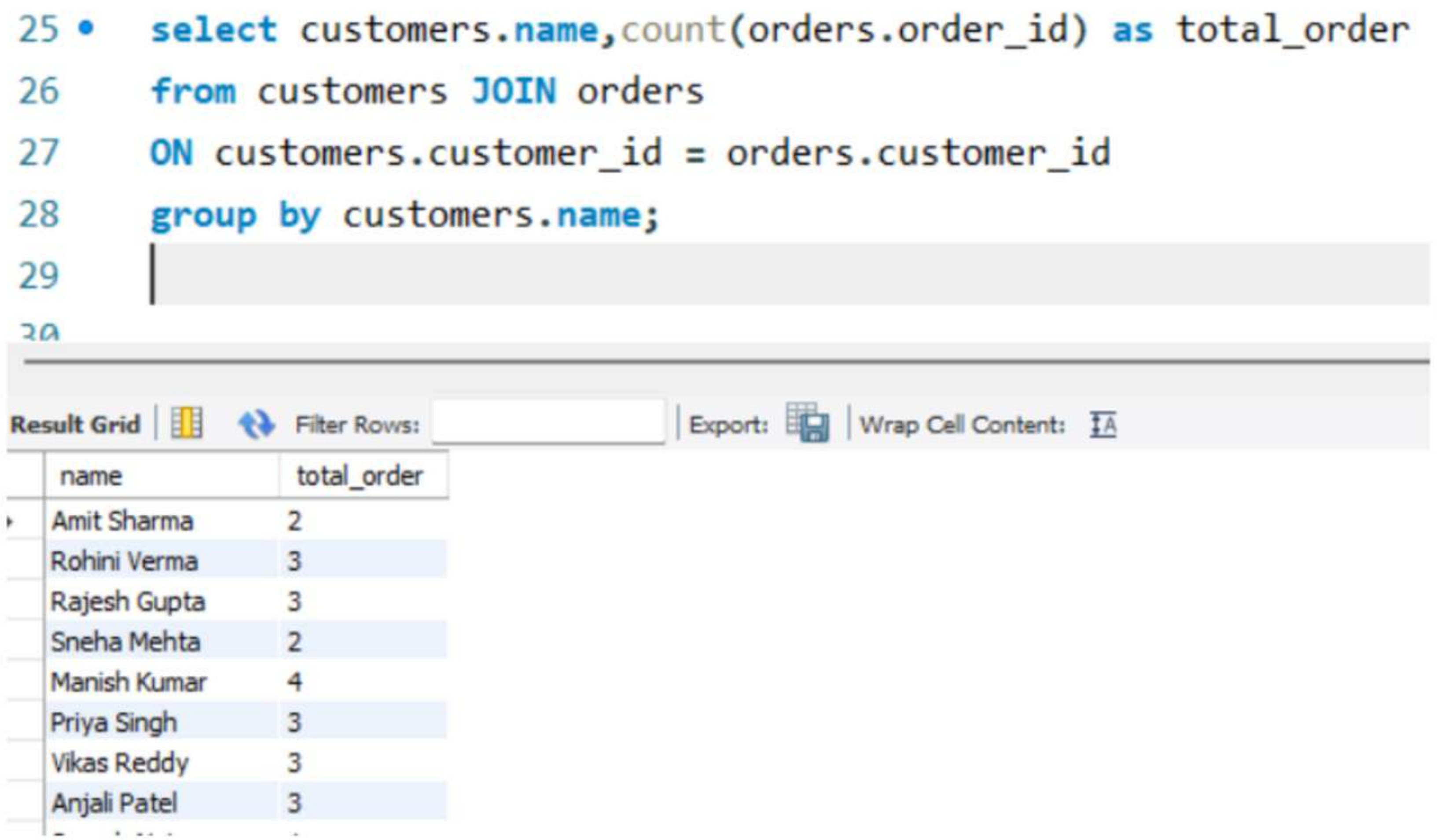
3 List all customers who have placed at least one order.

SELECT * FROM swiggy.customers;



```sql
select distinct customers.name,orders.order_id
from customers  join orders
on customers.customer_id = orders.customer_id;
```

name	order_id
Amit Sharma	1
Amit Sharma	6
Rohini Verma	2
Rohini Verma	12
Rohini Verma	27
Rajesh Gupta	3
Rajesh Gupta	13
Rajesh Gupta	40
Sneha Mehta	4
Sneha Mehta	26
Manish Kumar	5
Manish Kumar	18
Manish Kumar	28



```sql
select customers.name,count(orders.order_id) as total_order
from customers JOIN orders
ON customers.customer_id = orders.customer_id
group by customers.name;
```

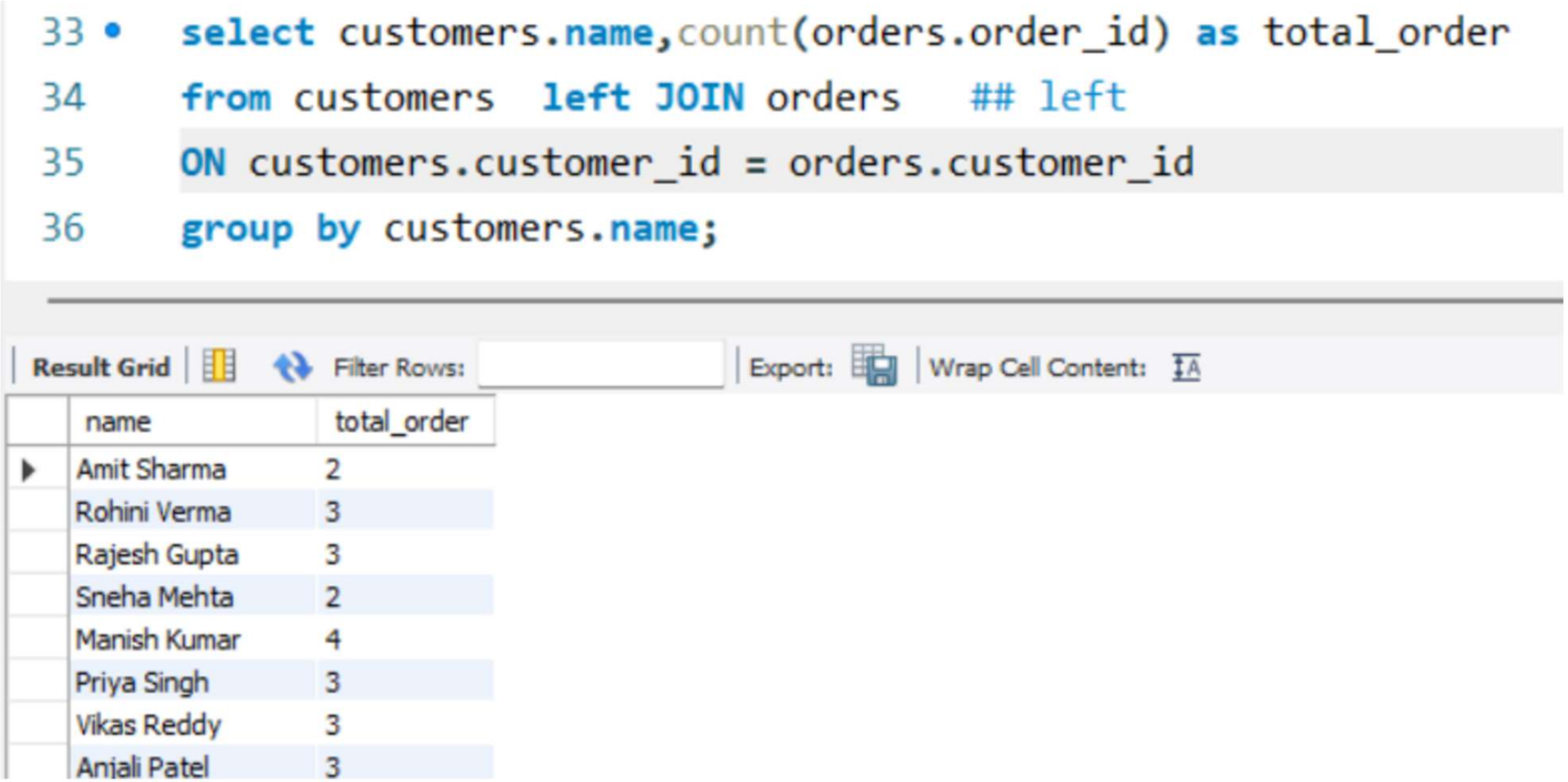
name	total_order
Amit Sharma	2
Rohini Verma	3
Rajesh Gupta	3
Sneha Mehta	2
Manish Kumar	4
Priya Singh	3
Vikas Reddy	3
Anjali Patel	3

Use count function to calculate the no. of orders

Names repeatition

4 Display the total number of orders placed by each customer.

SELECT * FROM swiggy.customers;

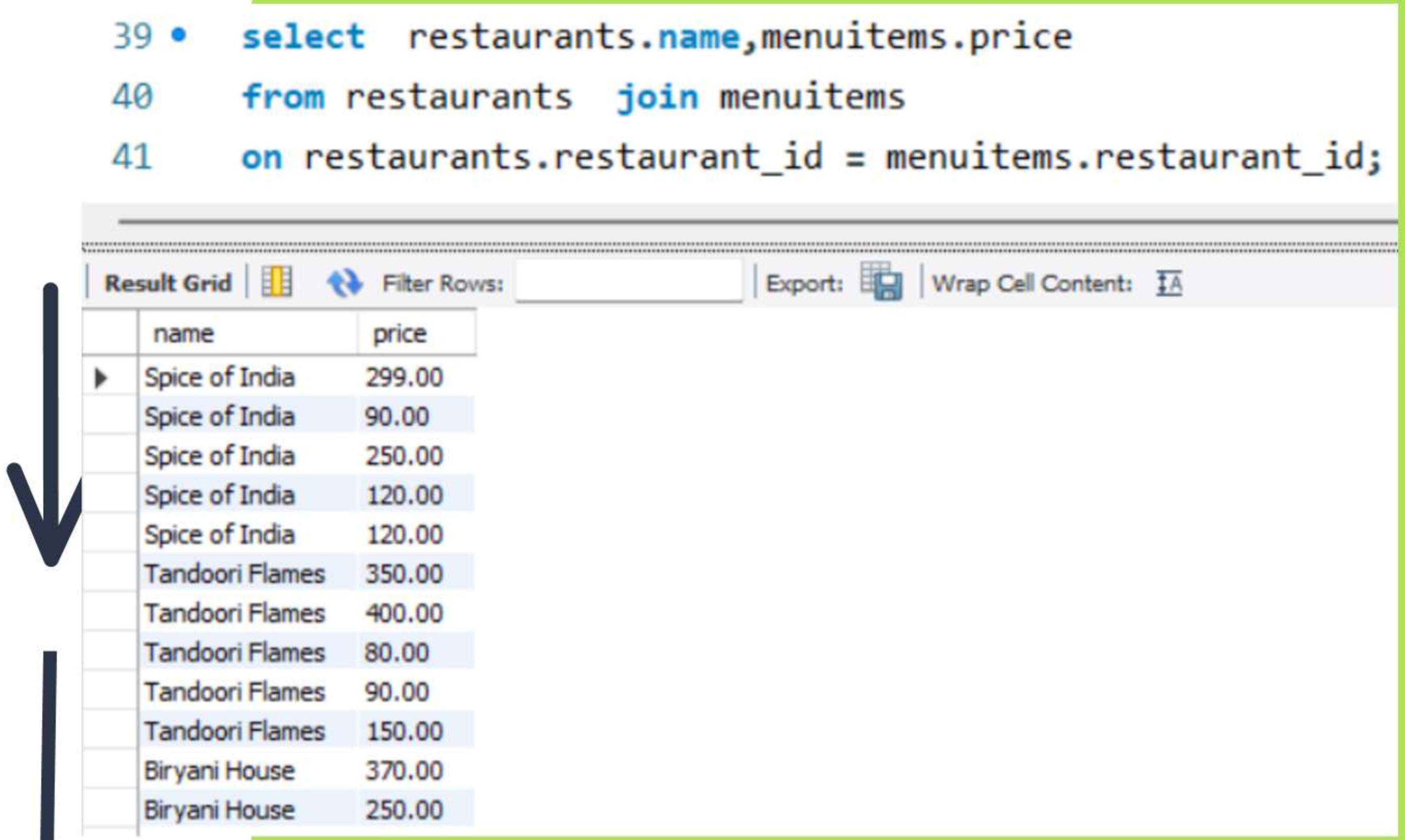


```
select customers.name,count(orders.order_id) as total_order
from customers  left JOIN orders   ## left
ON customers.customer_id = orders.customer_id
group by customers.name;
```

name	total_order
Amit Sharma	2
Rohini Verma	3
Rajesh Gupta	3
Sneha Mehta	2
Manish Kumar	4
Priya Singh	3
Vikas Reddy	3
Anjali Patel	3

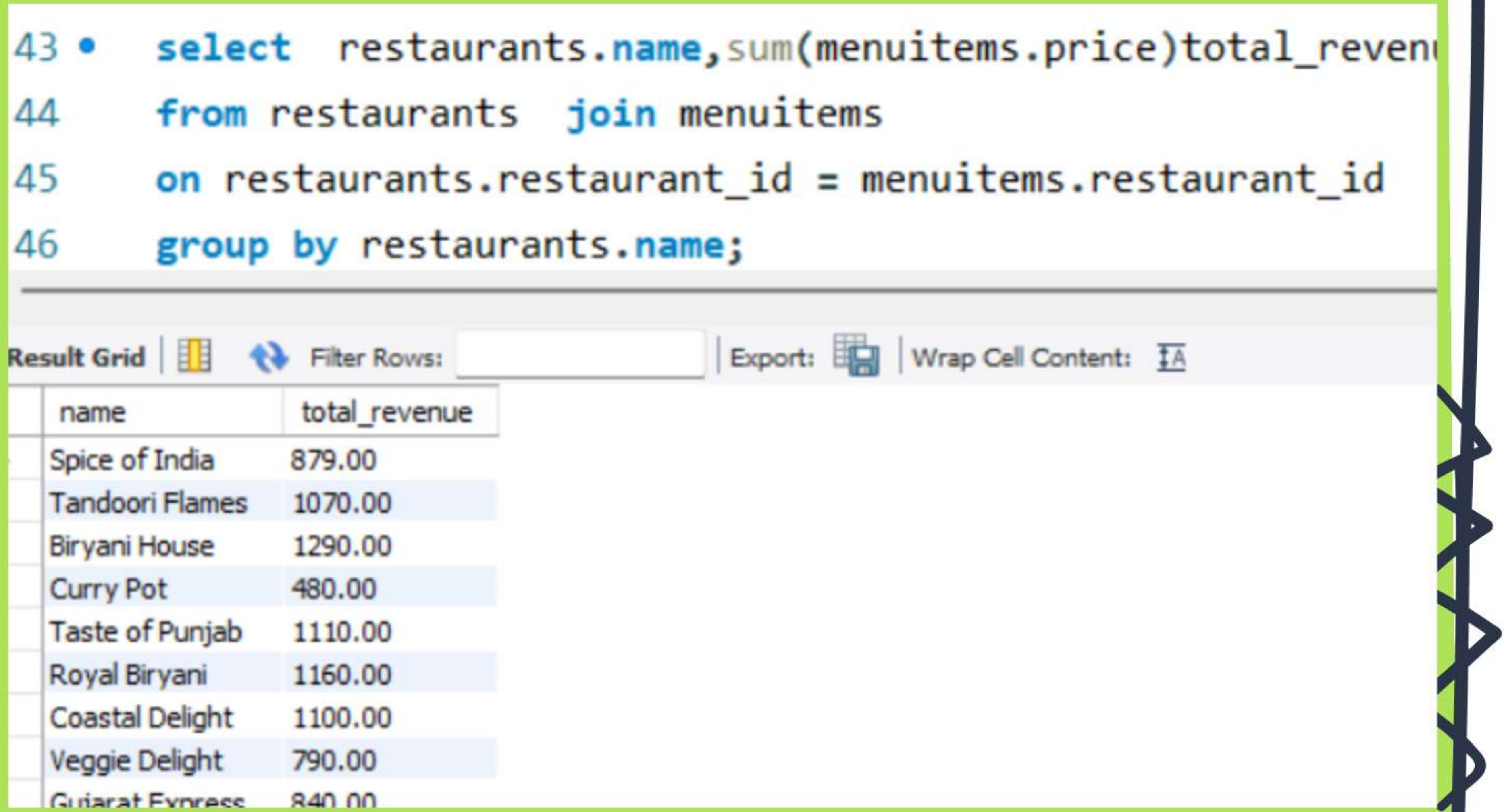
5 Find the total revenue generated by each restaurant.

SELECT * FROM swiggy.customers;



```sql
select  restaurants.name,menuitems.price
from restaurants  join menuitems
on restaurants.restaurant_id = menuitems.restaurant_id;
```

name	price
Spice of India	299.00
Spice of India	90.00
Spice of India	250.00
Spice of India	120.00
Spice of India	120.00
Tandoori Flames	350.00
Tandoori Flames	400.00
Tandoori Flames	80.00
Tandoori Flames	90.00
Tandoori Flames	150.00
Biryani House	370.00
Biryani House	250.00



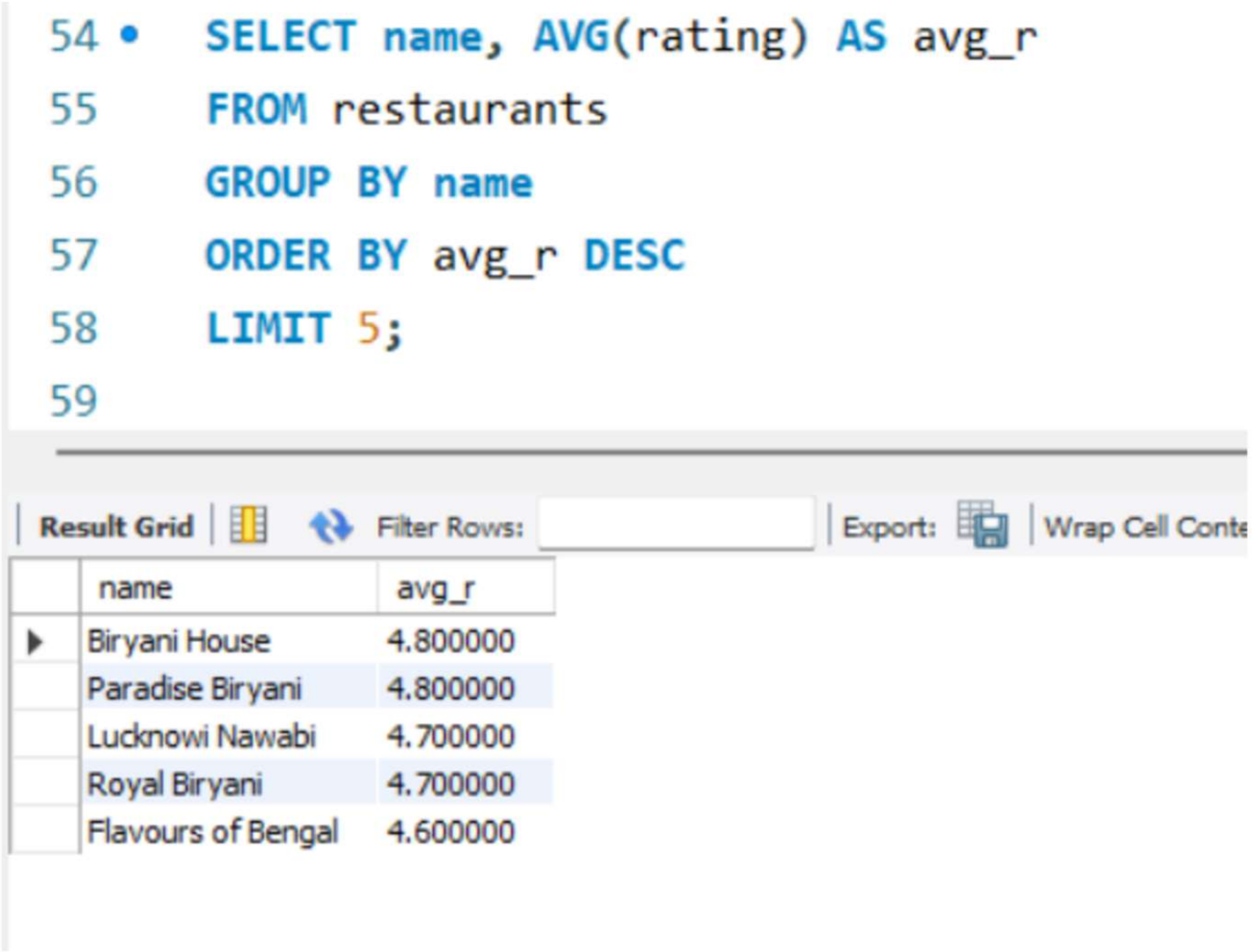
```sql
select  restaurants.name,sum(menuitems.price)total_revenu
from restaurants  join menuitems
on restaurants.restaurant_id = menuitems.restaurant_id
group by restaurants.name;
```

name	total_revenue
Spice of India	879.00
Tandoori Flames	1070.00
Biryani House	1290.00
Curry Pot	480.00
Taste of Punjab	1110.00
Royal Biryani	1160.00
Coastal Delight	1100.00
Veggie Delight	790.00
Gujarat Express	840.00

res.name with price repeat

use sum and group by to find total and avoid repetition

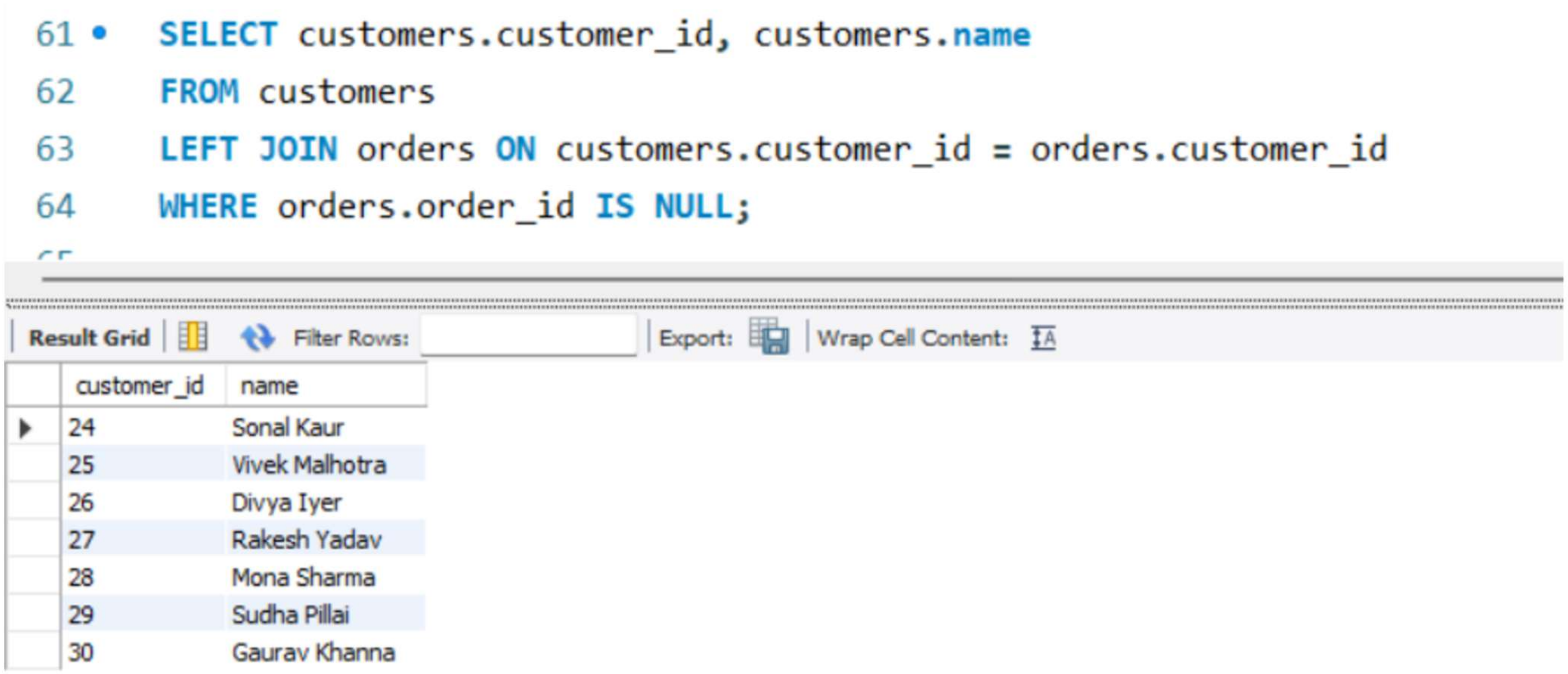
6 Find the top 5 restaurants with the highest average rating.



```sql
SELECT name, AVG(rating) AS avg_r
FROM restaurants
GROUP BY name
ORDER BY avg_r DESC
LIMIT 5;
```

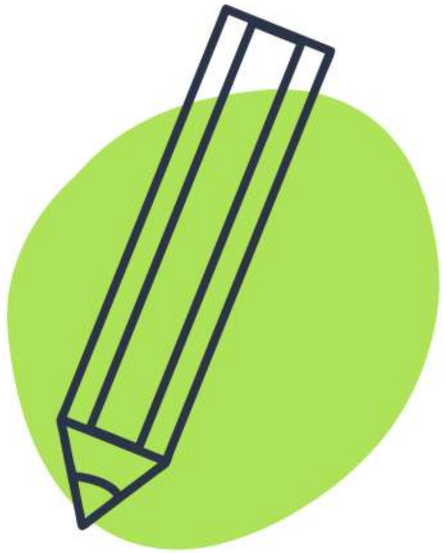
name	avg_r
Biryani House	4.800000
Paradise Biryani	4.800000
Lucknowi Nawabi	4.700000
Royal Biryani	4.700000
Flavours of Bengal	4.600000

7 Display all customers who have never placed an order.

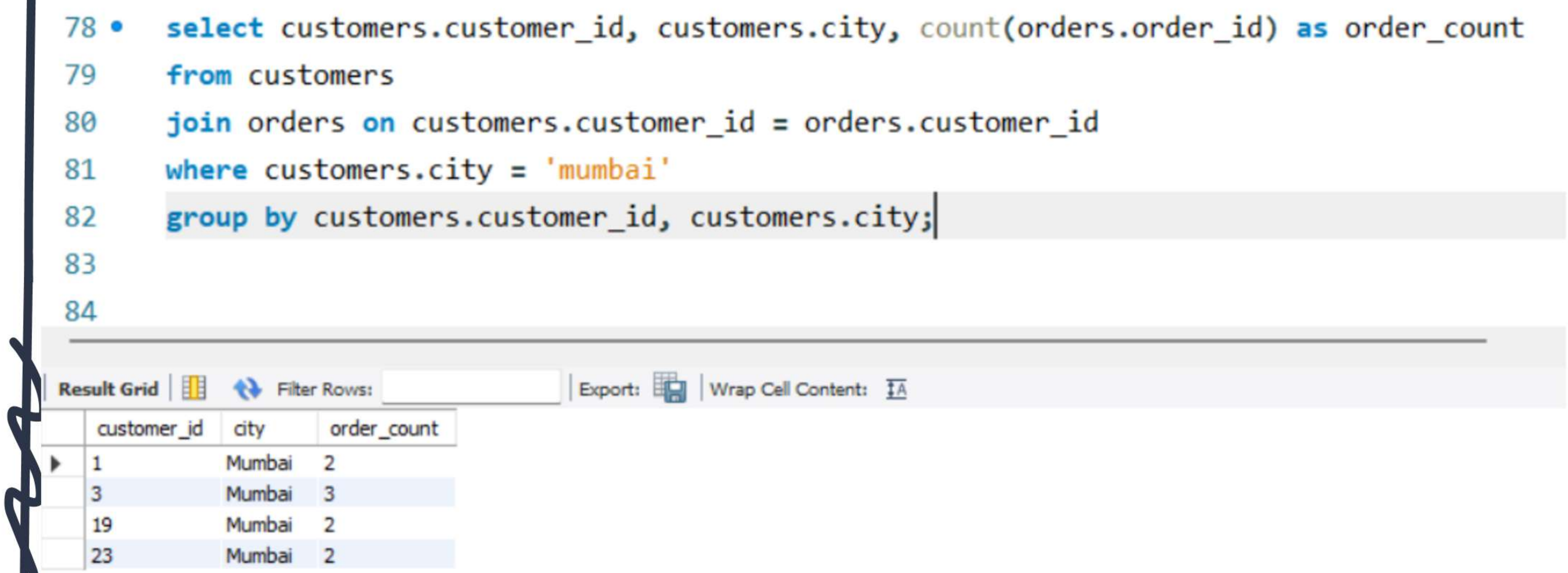


```sql
SELECT customers.customer_id, customers.name
FROM customers
LEFT JOIN orders ON customers.customer_id = orders.customer_id
WHERE orders.order_id IS NULL;
```

customer_id	name
24	Sonal Kaur
25	Vivek Malhotra
26	Divya Iyer
27	Rakesh Yadav
28	Mona Sharma
29	Sudha Pillai
30	Gaurav Khanna



8 Find the number of orders placed by each customer in 'Mumbai'.

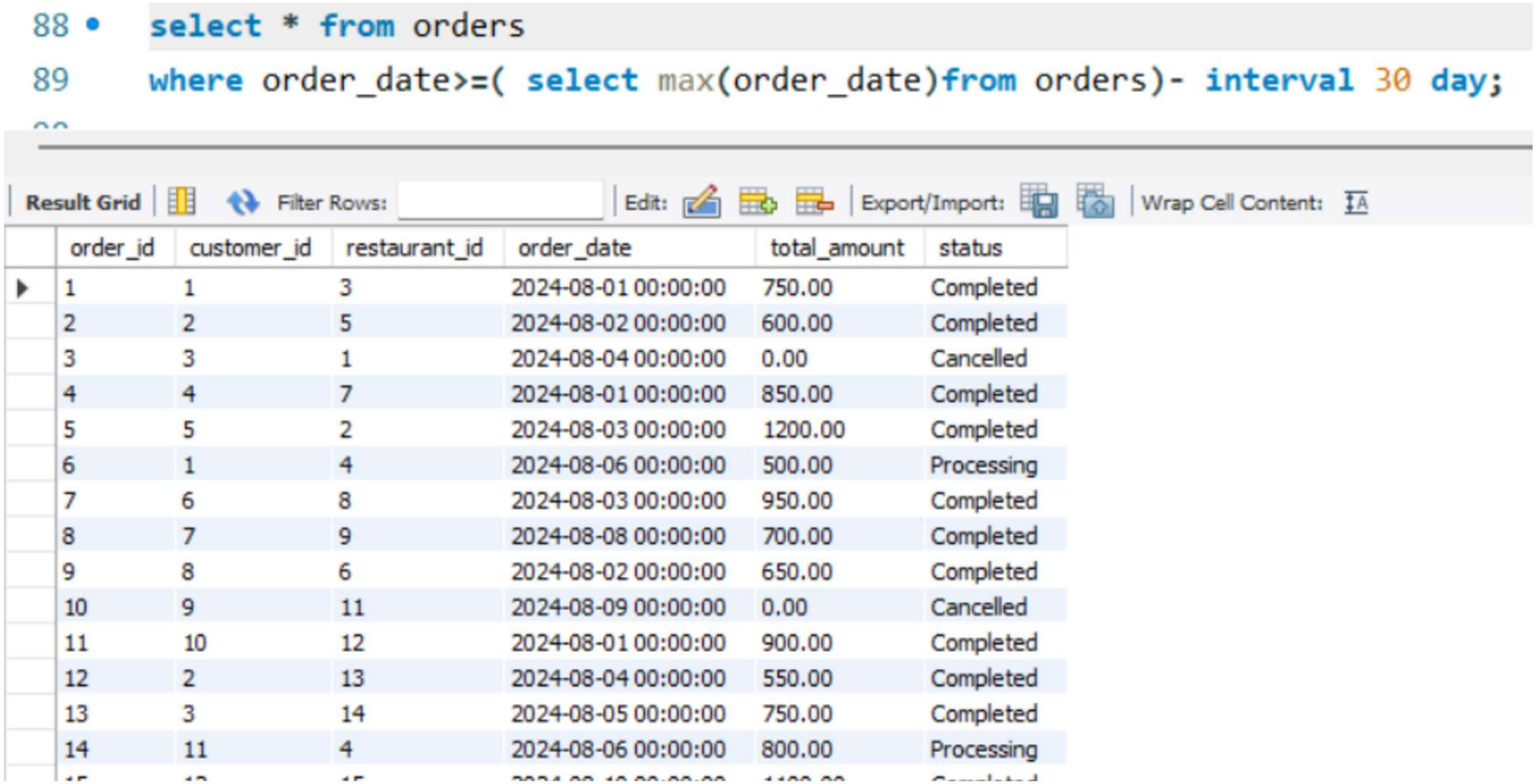


```
select customers.customer_id, customers.city, count(orders.order_id) as order_count
from customers
join orders on customers.customer_id = orders.customer_id
where customers.city = 'mumbai'
group by customers.customer_id, customers.city;
```

customer_id	city	order_count
1	Mumbai	2
3	Mumbai	3
19	Mumbai	2
23	Mumbai	2

SWIGGY
FOOD DELIVERY APP
BOLD
BUSINESS

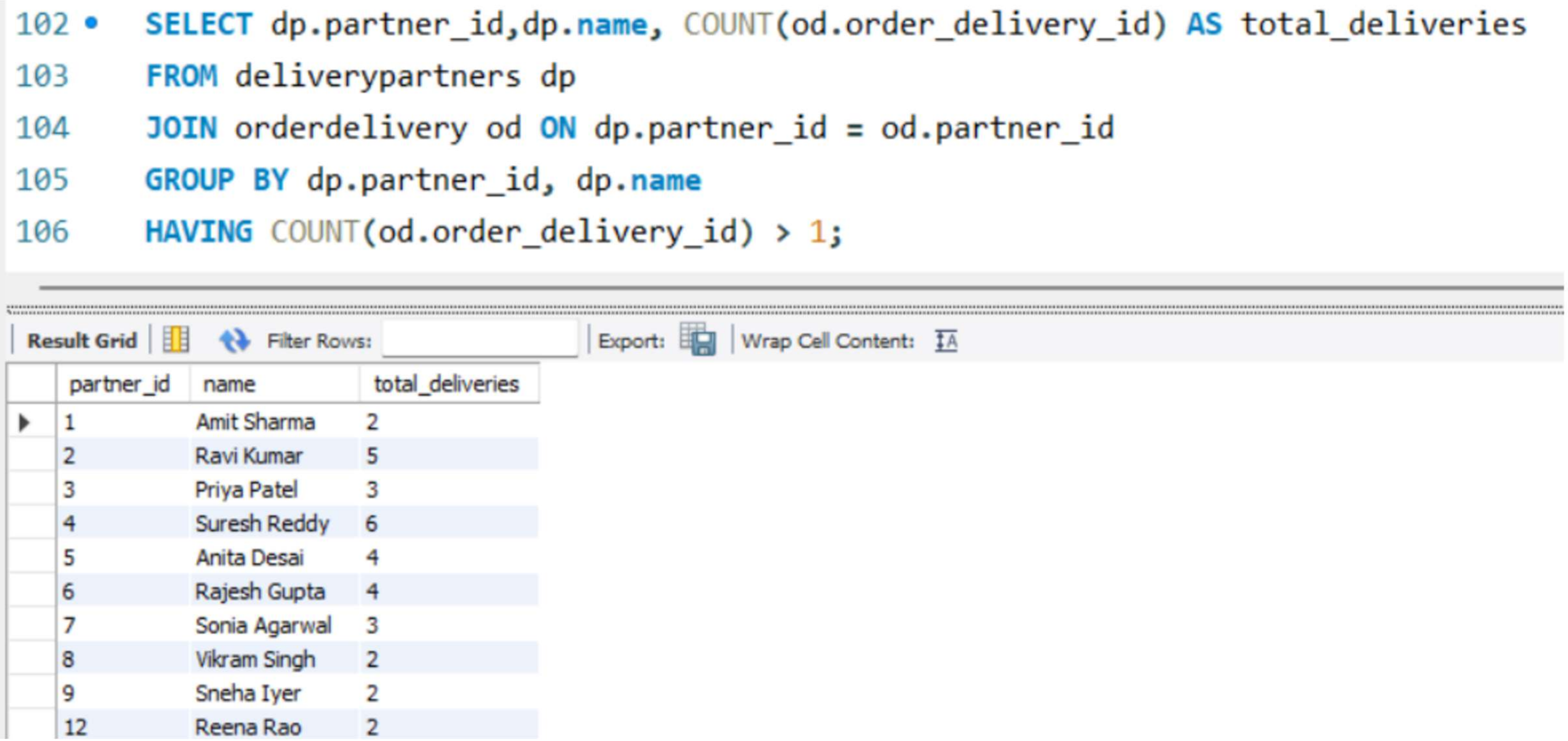
9 Display all orders placed in the last 30 days.



```
select * from orders
where order_date>=( select max(order_date)from orders)- interval 30 day;
```

order_id	customer_id	restaurant_id	order_date	total_amount	status
1	1	3	2024-08-01 00:00:00	750.00	Completed
2	2	5	2024-08-02 00:00:00	600.00	Completed
3	3	1	2024-08-04 00:00:00	0.00	Cancelled
4	4	7	2024-08-01 00:00:00	850.00	Completed
5	5	2	2024-08-03 00:00:00	1200.00	Completed
6	1	4	2024-08-06 00:00:00	500.00	Processing
7	6	8	2024-08-03 00:00:00	950.00	Completed
8	7	9	2024-08-08 00:00:00	700.00	Completed
9	8	6	2024-08-02 00:00:00	650.00	Completed
10	9	11	2024-08-09 00:00:00	0.00	Cancelled
11	10	12	2024-08-01 00:00:00	900.00	Completed
12	2	13	2024-08-04 00:00:00	550.00	Completed
13	3	14	2024-08-05 00:00:00	750.00	Completed
14	11	4	2024-08-06 00:00:00	800.00	Processing

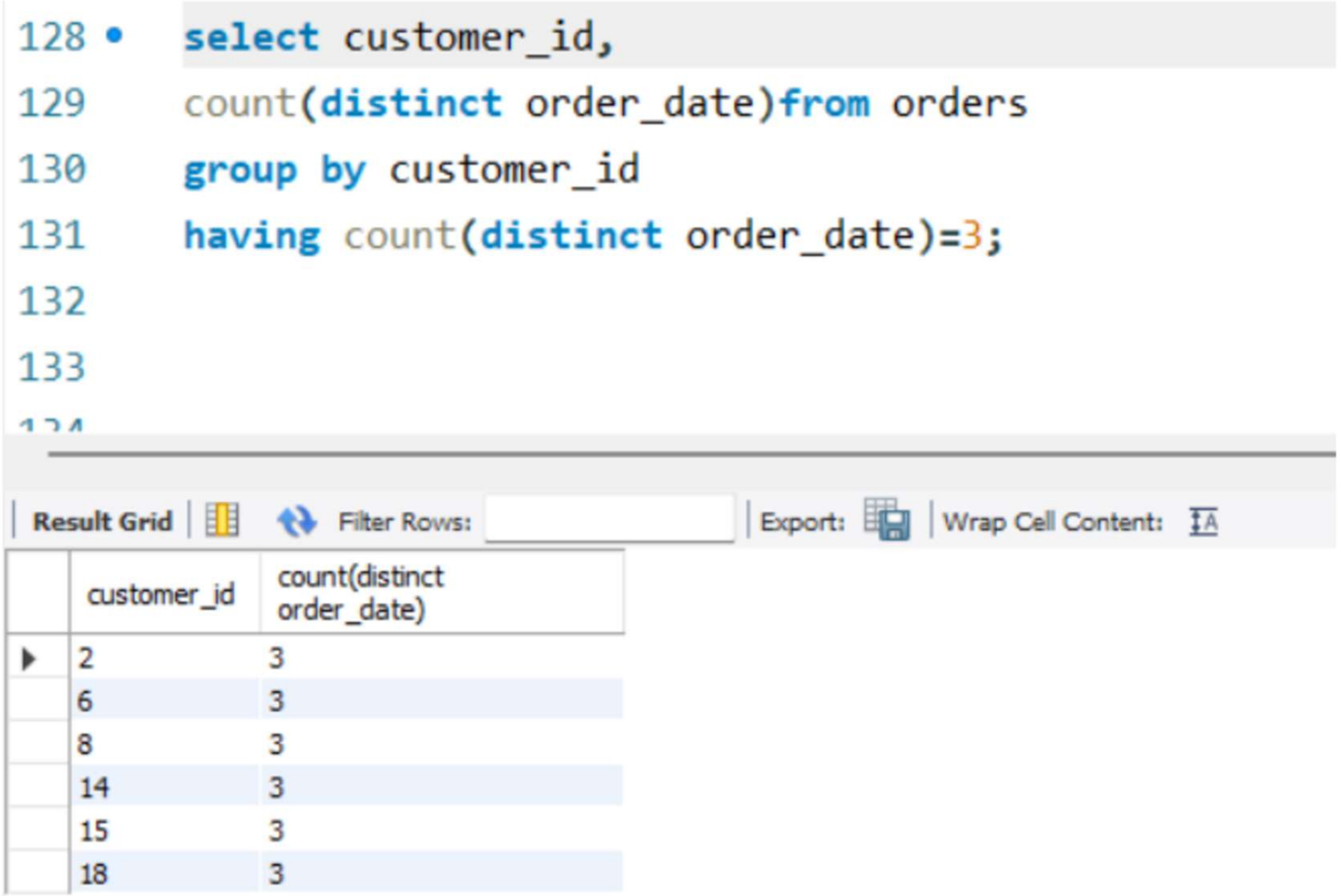
10 List all delivery partners who have completed more than 1 delivery



```sql
SELECT dp.partner_id,dp.name, COUNT(od.order_delivery_id) AS total_deliveries
FROM deliverypartners dp
JOIN orderdelivery od ON dp.partner_id = od.partner_id
GROUP BY dp.partner_id, dp.name
HAVING COUNT(od.order_delivery_id) > 1;
```

partner_id	name	total_deliveries
1	Amit Sharma	2
2	Ravi Kumar	5
3	Priya Patel	3
4	Suresh Reddy	6
5	Anita Desai	4
6	Rajesh Gupta	4
7	Sonia Agarwal	3
8	Vikram Singh	2
9	Sneha Iyer	2
12	Reena Rao	2

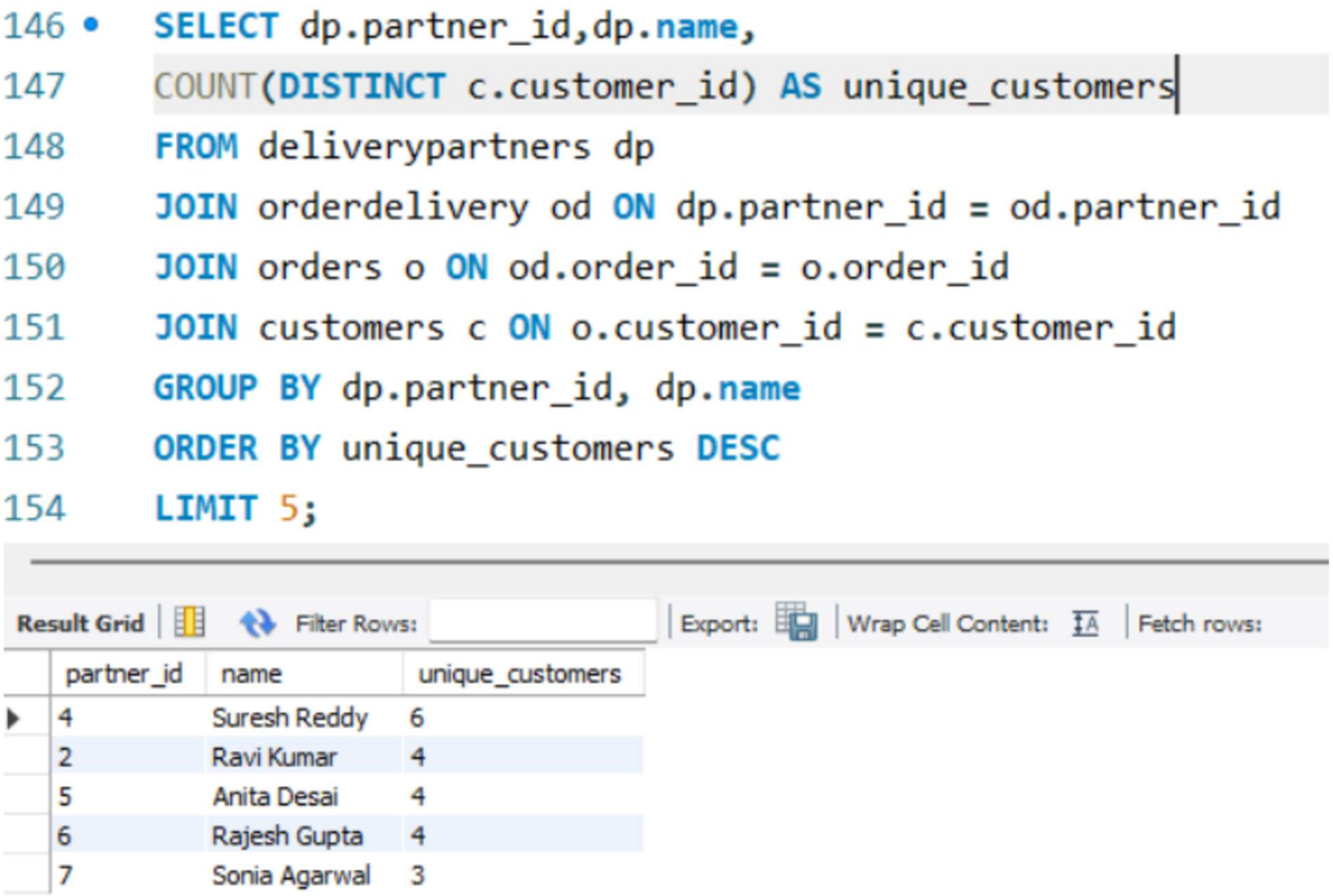
11 Find the customers who have placed orders on exactly three different days.



```sql
select customer_id,
count(distinct order_date)from orders
group by customer_id
having count(distinct order_date)=3;
```

customer_id	count(distinct order_date)
2	3
6	3
8	3
14	3
15	3
18	3

12 Find the delivery partner who has worked with the most different customers.



```sql
SELECT dp.partner_id,dp.name,
COUNT(DISTINCT c.customer_id) AS unique_customers
FROM deliverypartners dp
JOIN orderdelivery od ON dp.partner_id = od.partner_id
JOIN orders o ON od.order_id = o.order_id
JOIN customers c ON o.customer_id = c.customer_id
GROUP BY dp.partner_id, dp.name
ORDER BY unique_customers DESC
LIMIT 5;
```

```
partner_id  name           unique_customers
4           Suresh Reddy   6
2           Ravi Kumar     4
5           Anita Desai    4
6           Rajesh Gupta   4
7           Sonia Agarwal  3
```

Summary

From these case study i learn how to solve the complex queries in a Database, it helps me to understand how we can extract data from the database find insights and use for application purpose and also to find multiple outcomes .

Thank you!

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