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CASE STUDY ON SWIGGY

Order food & groceries. Discover best restaurants. Swiggy it!

Enter your delivery location

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FOOD DELIVERY
FROM RESTAURANTS

UPTO 60% OFF

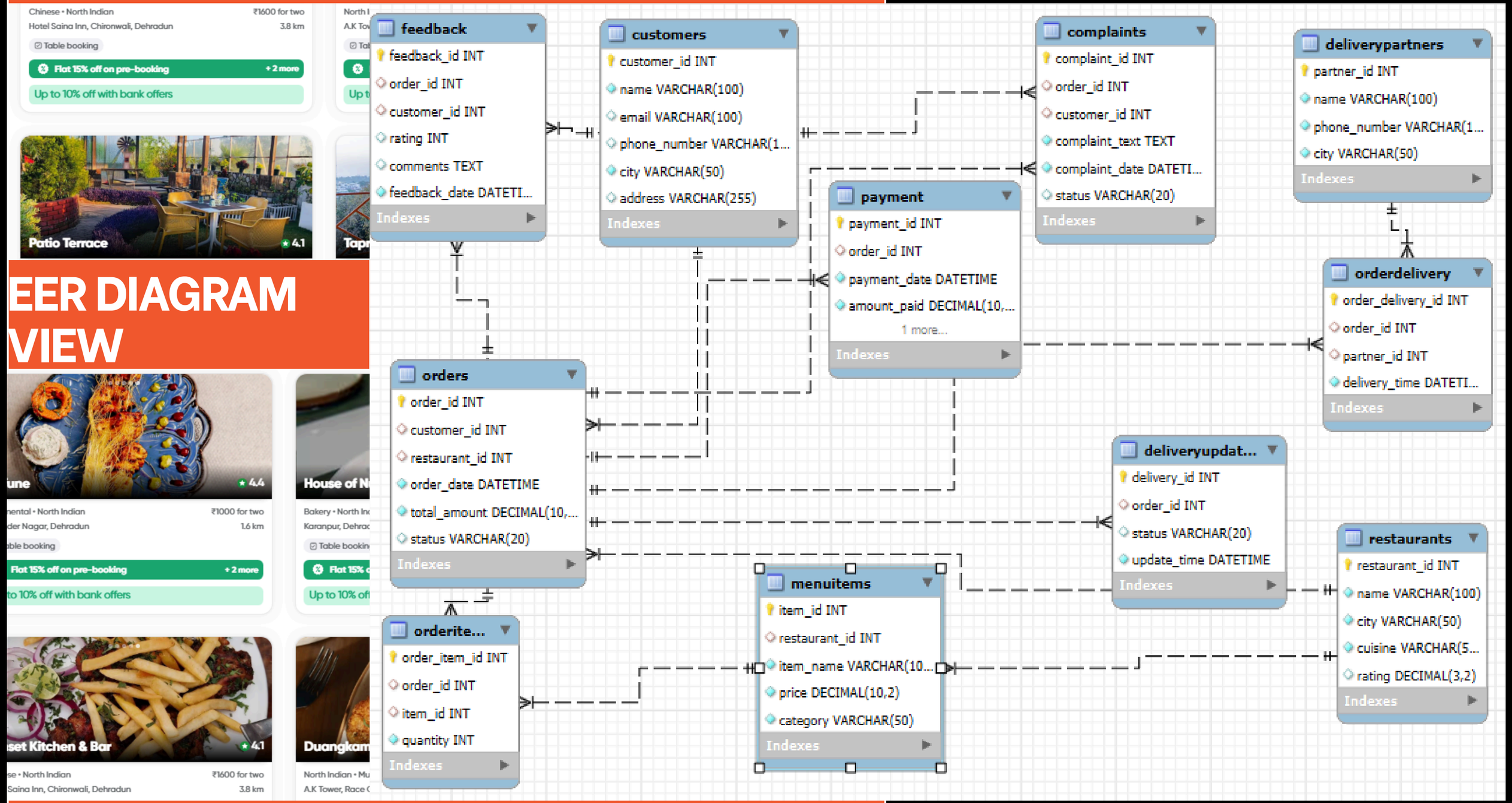
INSTAMART
INSTANT GROCERY

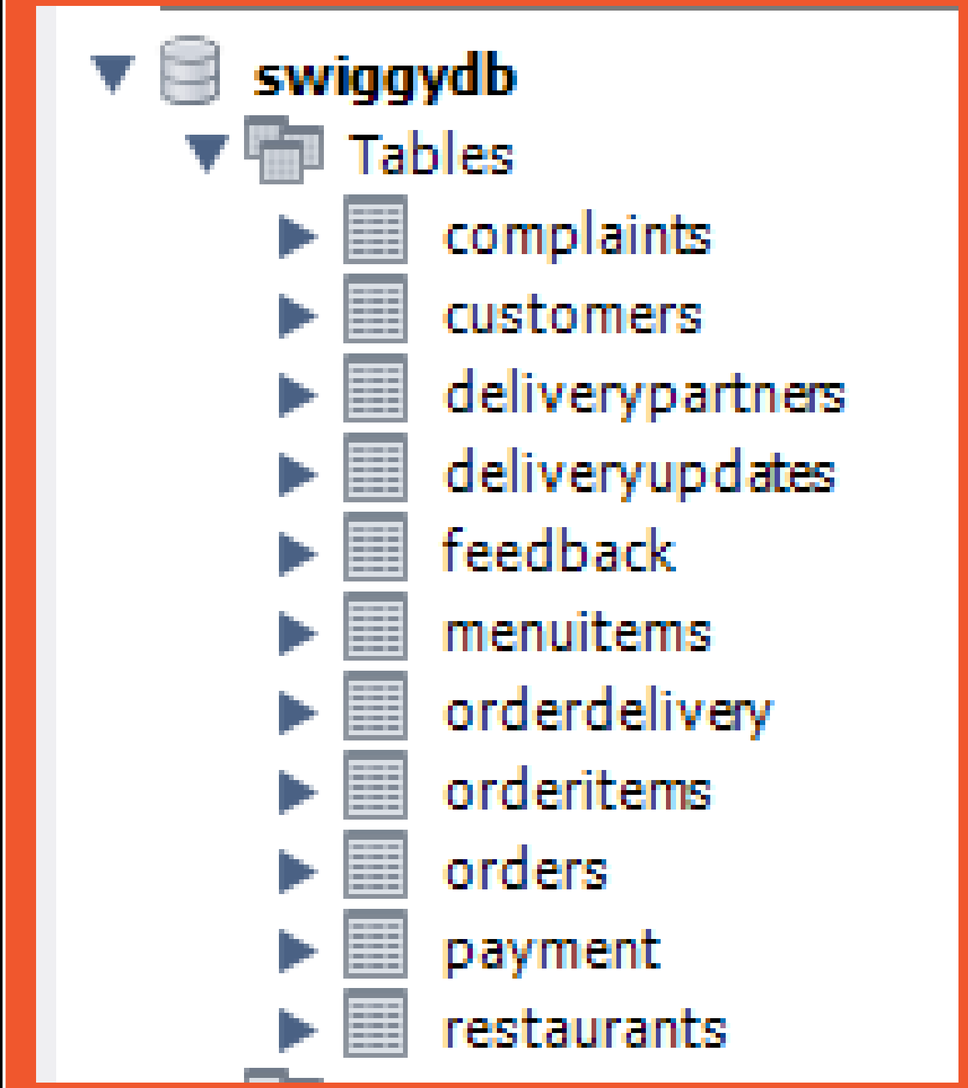
UPTO 60% OFF

DINEOUT
EAT OUT & SAVE MORE

UPTO 50% OFF

EER DIAGRAM VIEW



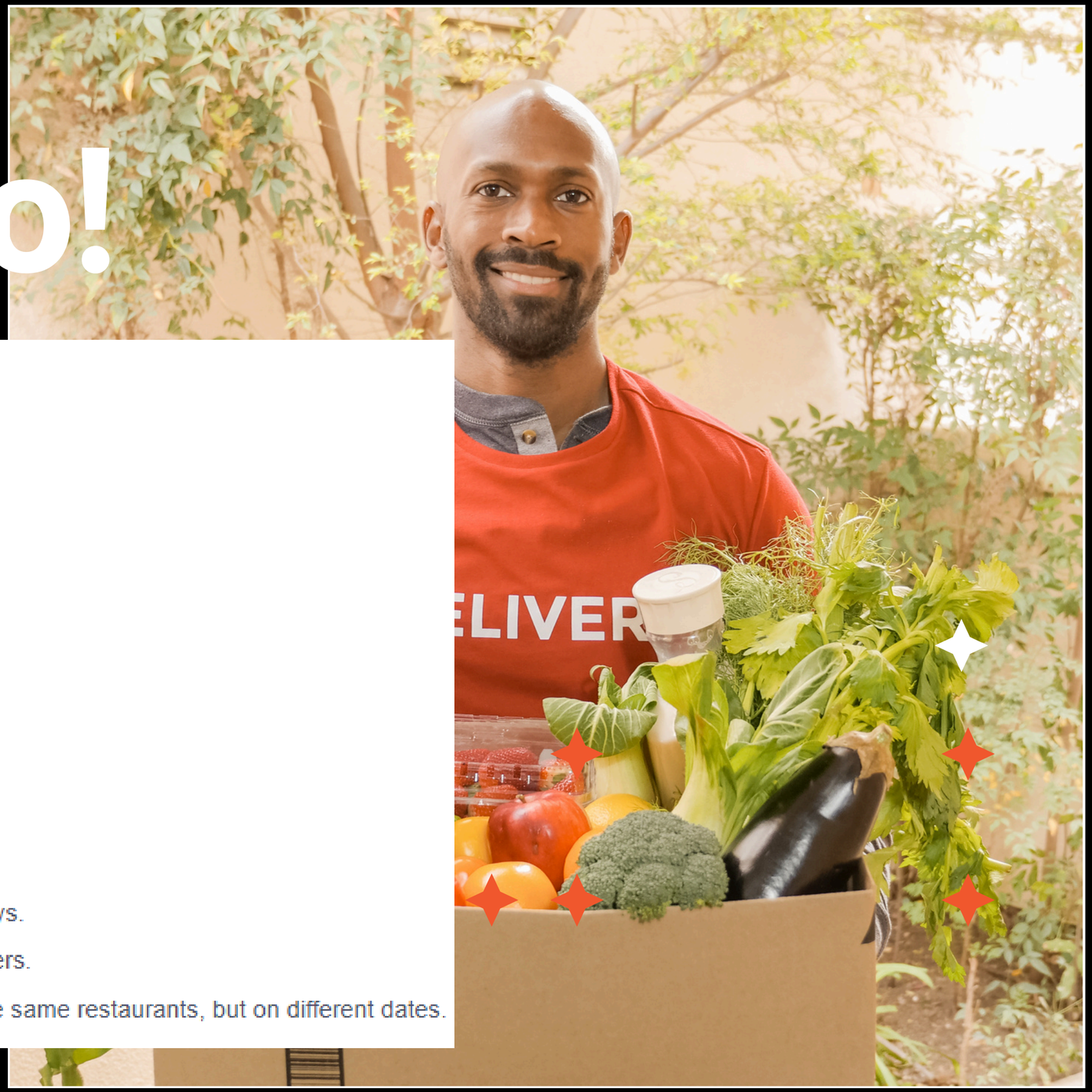

swiggydb
Tables
complaints
customers
deliverypartners
deliveryupdates
feedback
menuitems
orderdelivery
orderitems
orders
payment
restaurants

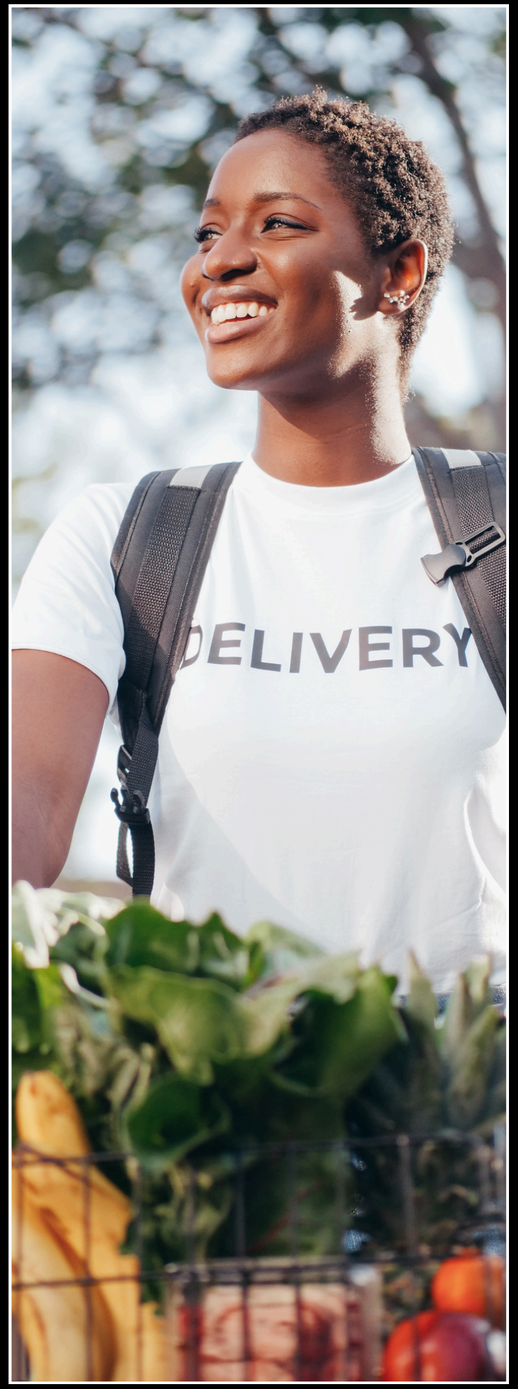
Total Table

What to Do!

Questions:

1. Display all customers who live in 'Delhi'.
2. Find the average rating of all restaurants in 'Mumbai'.
3. List all customers who have placed at least one order.
4. Display the total number of orders placed by each customer.
5. Find the total revenue generated by each restaurant.
6. Find the top 5 restaurants with the highest average rating.
7. Display all customers who have never placed an order.
8. Find the number of orders placed by each customer in 'Mumbai'.
9. Display all orders placed in the last 30 days.
10. List all delivery partners who have completed more than 1 delivery
11. Find the customers who have placed orders on exactly three different days.
12. Find the delivery partner who has worked with the most different customers.
13. Identify customers who have the same city and have placed orders at the same restaurants, but on different dates.





1. Display all customers who live in 'Delhi'.

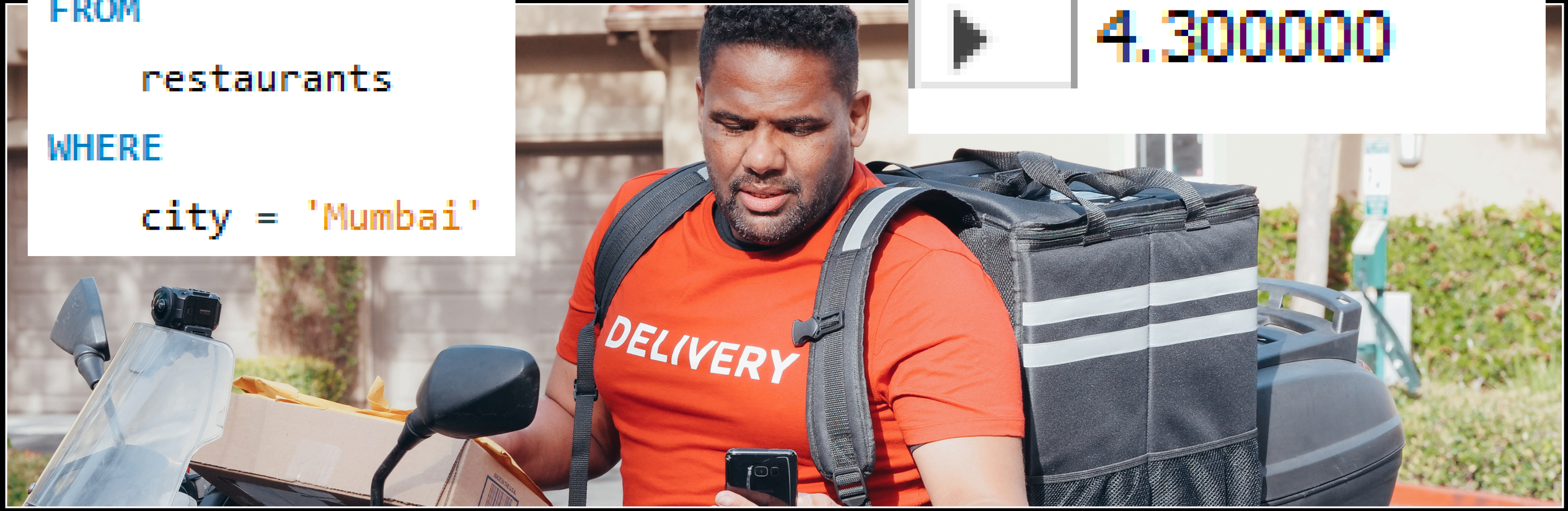
```sql
SELECT
    name
FROM
    customers
WHERE
    city = 'Delhi'
```

	name
▶	Rohini Verma
	Manish Kumar
	Sonali Mishra

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

```
SELECT
    AVG(rating)
FROM
    restaurants
WHERE
    city = 'Mumbai'
```

	avg(rating)
▶	4.300000



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

```
select customers.name
from customers join orders
on customers.customer_id = orders.customer_id
```

name
Amit Sharma
Amit Sharma
Rohini Verma
Rohini Verma
Rohini Verma
Rajesh Gupta
Rajesh Gupta
Rajesh Gupta
Sneha Mehta
Sneha Mehta
Manish Kumar
Manish Kumar
Manish Kumar

name
Priya Singh
Priya Singh
Priya Singh
Vikas Reddy
Vikas Reddy
Vikas Reddy
Anjali Patel
Anjali Patel
Anjali Patel
Suresh Nair
Kavita Desh...
Kavita Desh...
Vivek Bhatt

name
Vivek Bhatt
Meera Joshi
Meera Joshi
Pankaj Jain
Pankaj Jain
Nidhi Saxena
Nidhi Saxena
Nidhi Saxena
Ashok Kumar
Ashok Kumar
Ashok Kumar
Deepa Rao
Deepa Rao

name
Sonali Mishra
Sonali Mishra
Sonali Mishra
Arjun Desai
Arjun Desai
Shweta Bansal
Shweta Bansal
Rahul Chatt...
Rahul Chatt...
Neha Kaushik
Neha Kaushik
Ravi Singh
Ravi Singh

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

```
select 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

name	order_id
Manish Kumar	18
Manish Kumar	28
Manish Kumar	43
Priya Singh	7
Priya Singh	21
Priya Singh	33
Vikas Reddy	8
Vikas Reddy	25
Vikas Reddy	38
Anjali Patel	9
Anjali Patel	34
Anjali Patel	45
Suresh Nair	10

name	order_id
Suresh Nair	10
Kavita Desh...	11
Kavita Desh...	32
Vivek Bhatt	14
Vivek Bhatt	42
Meera Joshi	15
Meera Joshi	41
Pankaj Jain	16
Pankaj Jain	35
Nidhi Saxena	17
Nidhi Saxena	36
Nidhi Saxena	53
Ashok Kumar	19

name	order_id
Ashok Kumar	44
Ashok Kumar	54
Deepa Rao	20
Deepa Rao	52
Karan Kapoor	22
Sonali Mishra	23
Sonali Mishra	37
Sonali Mishra	51
Arjun Desai	24
Arjun Desai	46
Shweta Bansal	29
Shweta Bansal	47
Rahul Chatt...	30

name	order_id
Sonali Mishra	23
Sonali Mishra	37
Sonali Mishra	51
Arjun Desai	24
Arjun Desai	46
Shweta Bansal	29
Shweta Bansal	47
Rahul Chatt...	30
Rahul Chatt...	48
Neha Kaushik	31
Neha Kaushik	49
Ravi Singh	39
Ravi Singh	50

5. Find the total revenue generated by each restaurant.

```
select restaurants.name,
sum(orders.total_amount*orderitems.quantity) as total_revenue
from orders join orderitems
on orders.order_id = orderitems.order_id
join restaurants
on restaurants.restaurant_id = orders.order_id
group by restaurants.name
```

name	total_revenue
Spice of India	3750.00
Tandoori Flames	1800.00
Biryani House	0.00
Curry Pot	4250.00
Taste of Punjab	7200.00
Royal Biryani	4000.00
Coastal Delight	4750.00
Veggie Delight	3500.00
Gujarat Express	1950.00
Andhra Spice	0.00
Punjabi Tadka	6300.00
Flavours of Ben...	3300.00
South Treat	3000.00
The Great India...	5600.00
Rajasthani Rasoi	8800.00
Kerala Kitchen	4750.00
Chaat Junction	0.00
Maharashtrian ...	6000.00
Awadhi Zaika	3900.00
Bombay Bhel	2550.00
Saffron Spice	2400.00
Paradise Biryani	3150.00
Tamil Treat	6250.00

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

```
select name,round(avg(rating),2) as avg_rating from restaurants
group by name
order by avg_rating desc
limit 5
```

name	avg_rating
Biryani House	4.80
Paradise Biryani	4.80
Lucknowi Nawabi	4.70
Royal Biryani	4.70
Flavours of Bengal	4.60

7. Display all customers who have never placed an order.

```
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'.

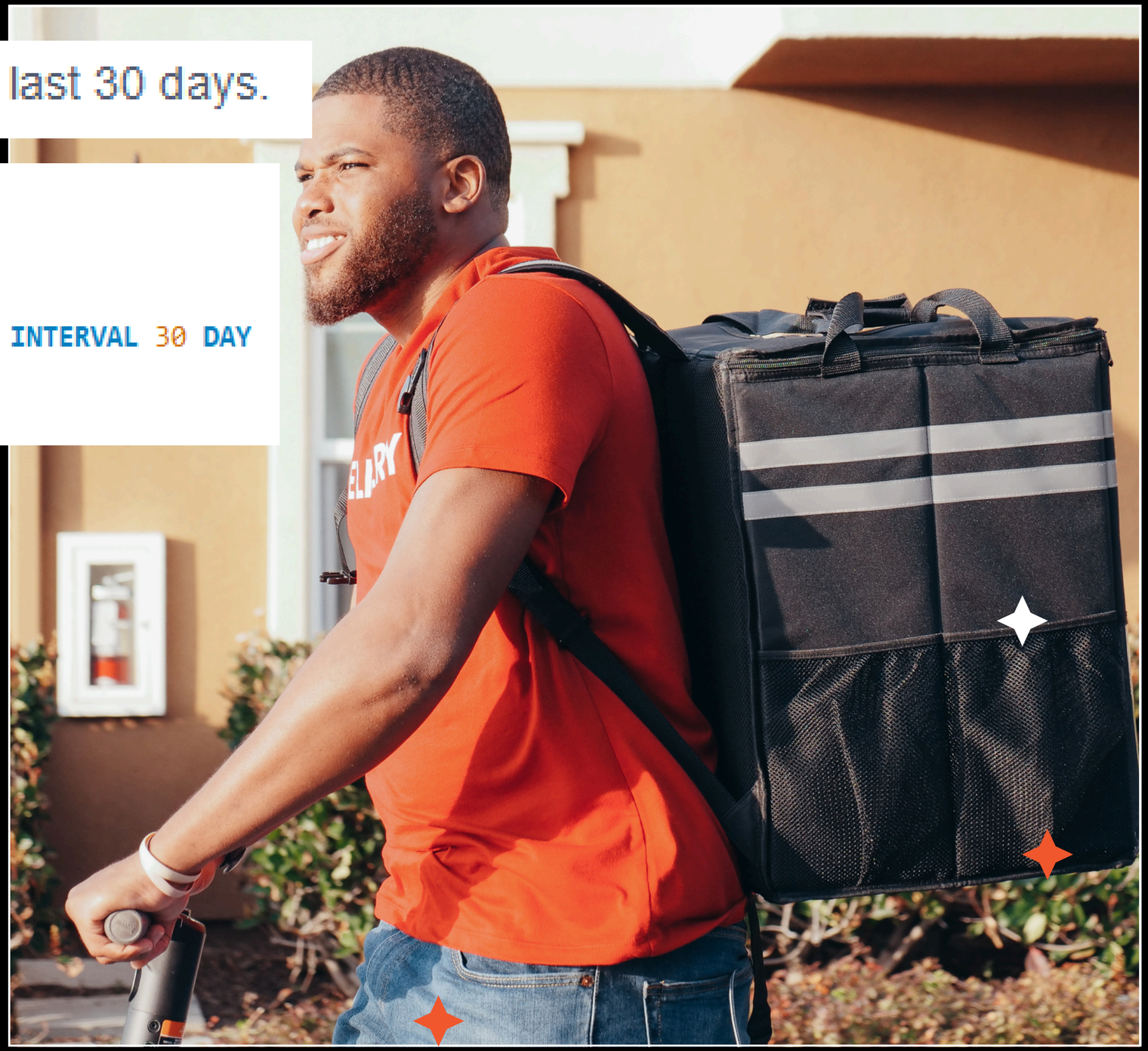
```
select customers.name,count(orders.customer_id) as total_order
from customers join orders
on customers.customer_id = orders.customer_id
where customers.city = "Mumbai"
group by customers.name
```

name	total_order
Amit Sharma	2
Rajesh Gupta	3
Arjun Desai	2
Ravi Singh	2

9. Display all orders placed in the last 30 days.

```sql
SELECT count(*) as total_order
FROM orders
WHERE order_date >= (
    (SELECT MAX(order_date) FROM orders) - INTERVAL 30 DAY
);
```

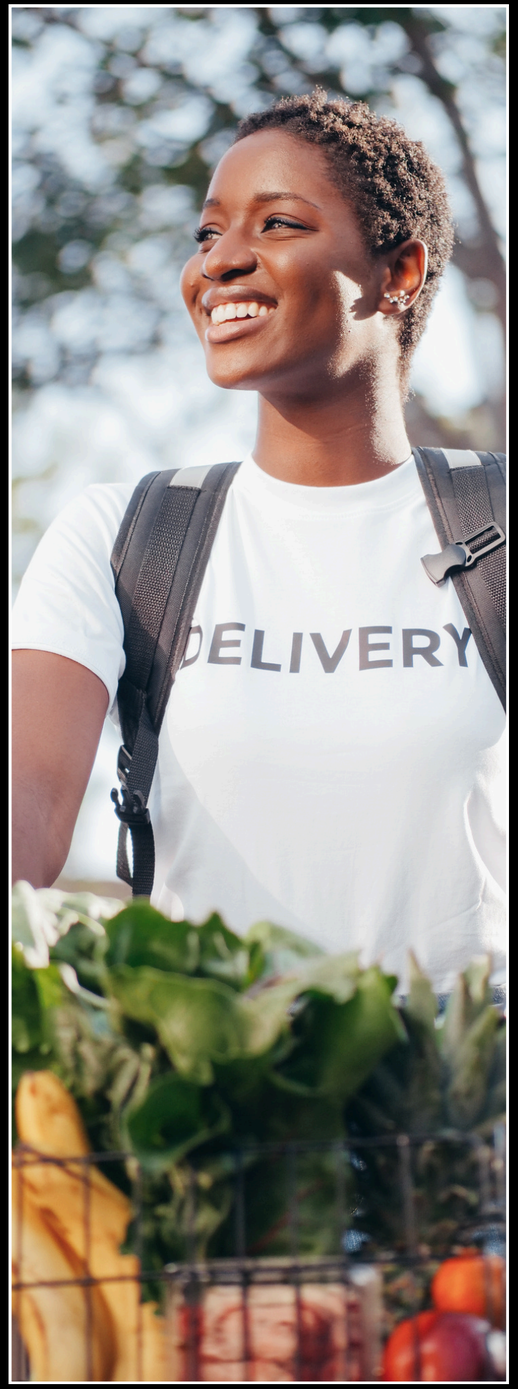
	total_order
▶	54



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

```
select deliverypartners.partner_id,deliverypartners.name,
count(orderdelivery.order_delivery_id)
from deliverypartners join orderdelivery
on deliverypartners.partner_id = orderdelivery.partner_id
group by deliverypartners.partner_id,deliverypartners.name
having count(orderdelivery.order_delivery_id) >1
order by count(orderdelivery.order_delivery_id) desc
```

partner_id	name	count(orderdelivery.order_delivery_id)
4	Suresh Reddy	6
2	Ravi Kumar	5
5	Anita Desai	4
6	Rajesh Gupta	4
3	Priya Patel	3
7	Sonia Agarwal	3
1	Amit Sharma	2
8	Vikram Singh	2
9	Sneha Iyer	2
12	Reena Rao	2
13	Mohit Saini	2
16	Ritika Sharma	2



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

```sql
SELECT customers.customer_id,
       customers.name AS customer_name,
       COUNT(DISTINCT DATE(orders.order_date)) AS total_order_days
FROM customers
JOIN orders
  ON customers.customer_id = orders.customer_id
GROUP BY customers.customer_id,  customers.name
HAVING COUNT(DISTINCT DATE(orders.order_date)) = 3;
```

customer_id	customer_name	total_order_days
2	Rohini Verma	3
6	Priya Singh	3
8	Anjali Patel	3
14	Nidhi Saxena	3
15	Ashok Kumar	3
18	Sonali Mishra	3

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

```
SELECT dp.partner_id,
       dp.name AS partner_name,
       COUNT(DISTINCT o.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
GROUP BY dp.partner_id, dp.name
ORDER BY unique_customers DESC
LIMIT 1;
```

	partner_id	partner_name	unique_customers
▶	4	Suresh Reddy	6

13. Identify customers who have the same city and have placed orders at the same restaurants, but on different dates.

```sql
SELECT DISTINCT
    customers.customer_id AS customer_id_1,
    other_customers.customer_id AS customer_id_2,
    customers.address AS city,
    restaurants.name AS restaurant_name
FROM customers
JOIN customers AS other_customers
    ON customers.address = other_customers.address
   AND customers.customer_id < other_customers.customer_id
JOIN orders
    ON customers.customer_id = orders.customer_id
JOIN orders AS other_orders
    ON other_customers.customer_id = other_orders.customer_id
   AND orders.restaurant_id = other_orders.restaurant_id
   AND DATE(orders.order_date) <> DATE(other_orders.order_date)
JOIN restaurants
    ON orders.restaurant_id = restaurants.restaurant_id;
```

Result Grid | Filter Rows: | Export:

customer_id_1	customer_id_2	city	restaurant_name

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