

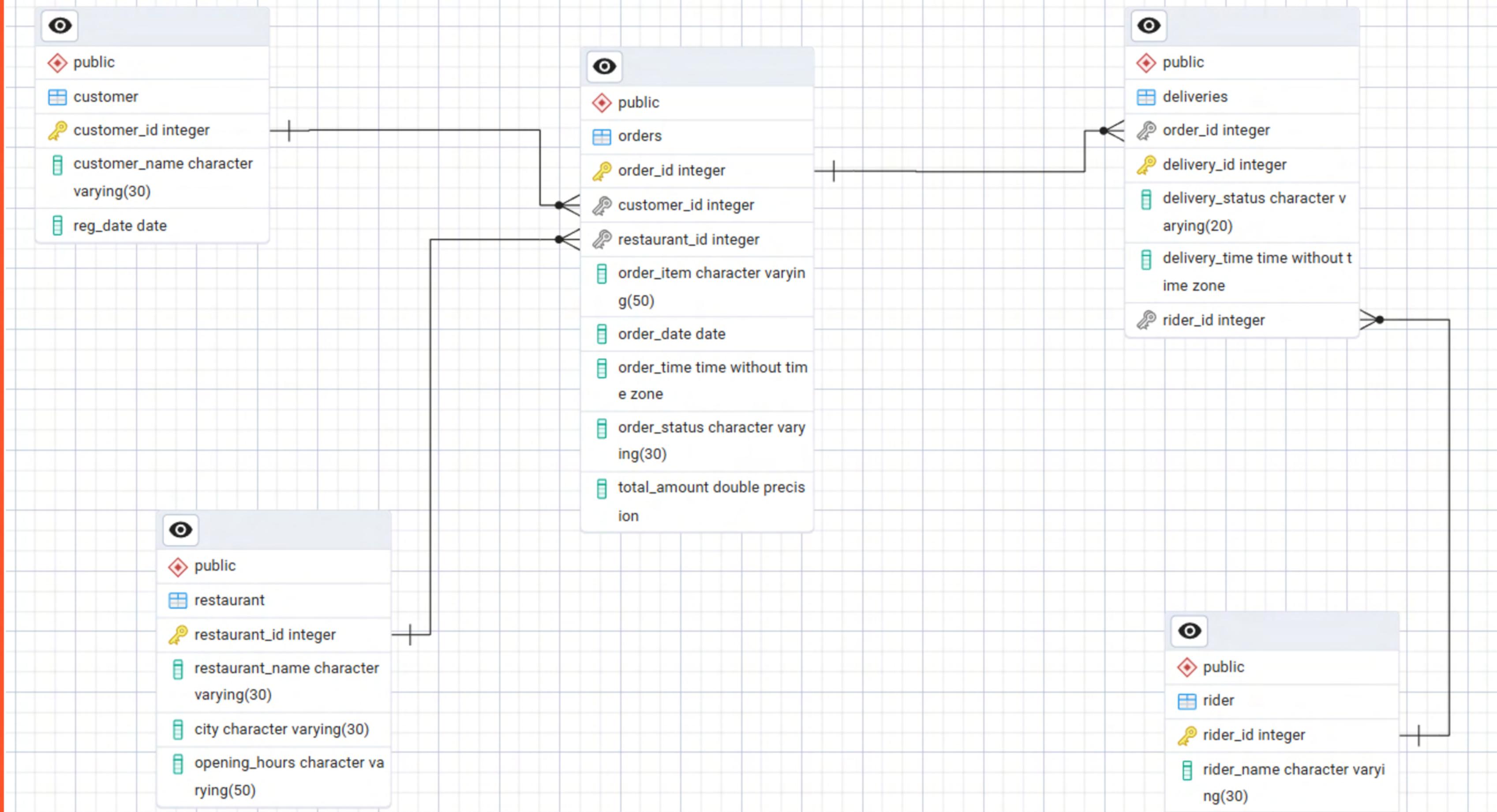
Comprehensive Data Analysis

# Zomato Food Delivery

SQL



# Database Setup



**Write a query to find the top 3 most frequently ordered dishes by "Anahita Ratti" in last 1 year.**

	customer_name	customer_id	dishes	total_orders
	character varying (30)	integer	character varying (50)	bigint
	Anahita Ratti	85	Aloo Paratha	2
	Anahita Ratti	85	Fish Curry	2
	Anahita Ratti	85	Palak Paneer	2



## popular time slot

Identify the time slot during which most of the orders are placed -- interval 2 hours



	time_slot	order_count
	text	bigint
1	06:00 - 08:00	870
2	12:00 - 14:00	869
3	20:00 - 22:00	863
4	08:00 - 10:00	839
5	04:00 - 06:00	838
6	16:00 - 18:00	834
7	22:00 - 00:00	829
8	02:00 - 04:00	822
9	00:00 - 02:00	819
10	18:00 - 20:00	810
11	14:00 - 16:00	804
12	10:00 - 12:00	803

**Find the average order value per customer who have place atleast 20 orders.**



	customer_name character varying (30) 	average_order_vale double precision 
1	Kismat Bhardwaj	676
2	Mamooty Brahmbhatt	636
3	Anahita Ratti	635
4	Divit Basu	568
5	Krish Tiwari	545
6	Farhan Sarma	509

**List the customer who have spend more than 10k on food orders.**

**Return customer name and customer\_id**



	customer_id integer	customer_name character varying (30)
1	562	Yasmin Rattan
2	95	Akarsh Sood
3	951	Samarth Balan
4	633	Alisha Baral
5	295	Mamooty Brahmbhatt
6	973	Zeeshan Saha
7	778	Nirvaan Kumer
8	85	Anahita Ratti
9	173	Ishita Saran
10	188	Kismat Bhardwaj
11	592	Lakshay Sangha
12	629	Sahil Gupta
13	75	Ishaan Sengupta
14	634	Romil Sandal
15	400	Krish Tiwari
...	...	...

**Write a query to find the order that were placed and later cancelled  
Return restaurant name,city and number of orders cancelled**



	restaurant_name character varying (30) 	city character varying (30) 	cancelled bigint 
1	Annapurna Darshit Heaven	Kolkata	20
2	Tandoori Indrajit Point	Chennai	13
3	Tandoori Taimur Heaven	Chennai	26
4	Tandoori Pari Express	Bangalore	19
5	Annapurna Arnav Hub	Bangalore	9
6	Foodie Aarav Delight	Delhi	16
7	Annapurna Indranil Corner	Hyderabad	14
8	Foodie Siya Palace	Lucknow	13
9	The Oorja Delight	Ahmedabad	21
10	The Vivaan Hub	Mumbai	13
11	Foodie Jivin Point	Pune	15
12	Spice Zeeshan Kitchen	Ahmedabad	16
13	Annapurna Ojas Hub	Mumbai	19
14	The Jayant Delight	Chennai	12
15	Tandoori Romil Hub	Hyderabad	18
16	Cafe Arnav Heaven	Kolkata	12
17	Foodie Mehul House	Chennai	15
18	Biryani Jiya Hub	Pune	18
19	Taste of Vardaniya Bazaar	Chennai	13
20	Taste of Miraya Hub	Lucknow	14
21	Cafe Faiyaz Hub	Mumbai	19

## Rank restaurnat by total revenue from last 1 year

Total revenue and rank 1 in each city

	city character varying (30) 	restaurant_name character varying (30) 	total_revenue double precision 	rank bigint 
1	Ahmedabad	Cafe Zaina Heaven	36763	1
2	Bangalore	Spice Damini House	31805	1
3	Chennai	Foodie Himmat Delight	33004	1
4	Delhi	Shree Priyansh Kitchen	35460	1
5	Hyderabad	Biryani Misha House	32356	1
6	Jaipur	Foodie Hansh Corner	35596	1
7	Kolkata	Annapurna Zara Delight	34720	1
8	Lucknow	Spice Lakshit Heaven	37294	1
9	Mumbai	Foodie Hiran Delight	35439	1
10	Pune	Spice Shamik Bazaar	35724	1

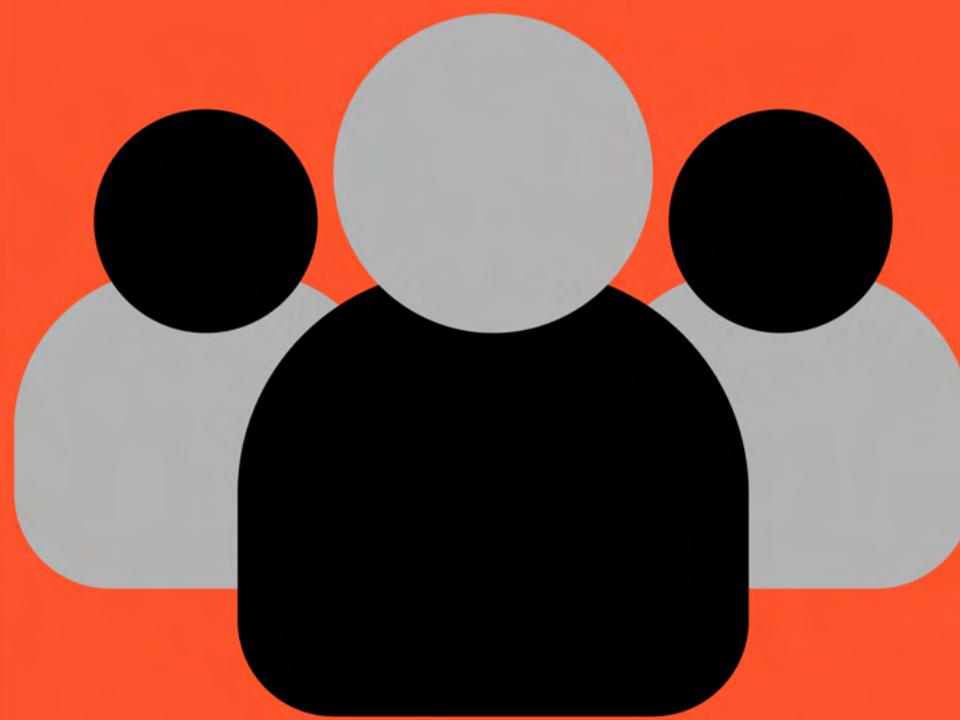


# Identify the most popular dish by city in terms of number of orders



	city character varying (30)	dish character varying (50)	total_count bigint	rank bigint
1	Ahmedabad	Paneer Tikka	77	1
2	Bangalore	Fish Curry	49	1
3	Chennai	Kadhi Pakora	54	1
4	Delhi	Paneer Tikka	41	1
5	Delhi	Dhokla	41	1
6	Hyderabad	Chole Bhature	48	1
7	Jaipur	Baingan Bharta	37	1
8	Kolkata	Dhokla	55	1
9	Lucknow	Rajma Chawal	51	1
10	Mumbai	Biryani	69	1
11	Mumbai	Pav Bhaji	69	1
12	Pune	Korma	49	1

# Find the Customer who haven't place order in 2025 but did in 2024



	customer_id	integer
1		25
2		33
3		87
4		404
5		463
6		465
7		516
8		583
9		585
10		733
11		850
12		991



# Restaurant growth ratio monthly based on total\_orders delivered



	restaurant_id integer	month text	total_order_delivered bigint	previous_month bigint	ratio numeric
1	1	24-08	2	[null]	[null]
2	1	24-09	2	2	0.00
3	1	24-10	2	2	0.00
4	1	24-11	4	2	100.00
5	1	24-12	2	4	-50.00
6	1	25-01	2	2	0.00
7	1	25-02	3	2	50.00
8	1	25-03	3	3	0.00
9	1	25-04	1	3	-66.67
10	1	25-05	3	1	200.00
11	1	25-06	3	3	0.00
12	1	25-07	2	3	-33.33
13	2	24-08	3	[null]	[null]
14	2	24-09	3	3	0.00
15	2	24-10	2	3	-33.33
16	2	24-11	2	2	0.00
17	2	24-12	2	2	0.00
18	2	25-01	3	2	50.00
19	2	25-02	5	3	66.67
20	2	25-03	1	5	-80.00
21	2	25-04	2	1	100.00

**Customer Segmentation:** Segment customers into 'Gold' or 'Silver' groups based on their total spending compared to the average order value (AOV). If a customer's total spending exceeds the AOV, label them as 'Gold'; otherwise, label them as 'Silver'. Write an SQL query to determine each segment's total number of orders and total revenue

	category text	total_orders numeric	total_revenue double precision
1	GOLD	9998	5514788.45
2	SILVER	2	453.86



## Calculate rider monthly incentive assume that they earn 35% of order amount



	rider_id integer	month text	earning double precision
1	1	24-08	226
2	1	24-11	123
3	1	25-03	253
4	1	25-04	543
5	1	25-06	449
6	1	25-07	169
7	2	24-09	330
8	2	24-12	1033
9	2	25-01	135
10	2	25-03	53
11	2	25-04	85
12	2	25-07	462
13	3	24-08	345
14	3	24-12	190
15	3	25-01	153
16	3	25-03	177
17	3	25-05	392
18	3	25-07	53
19	4	24-11	318
20	4	25-02	126
21	4	25-03	232



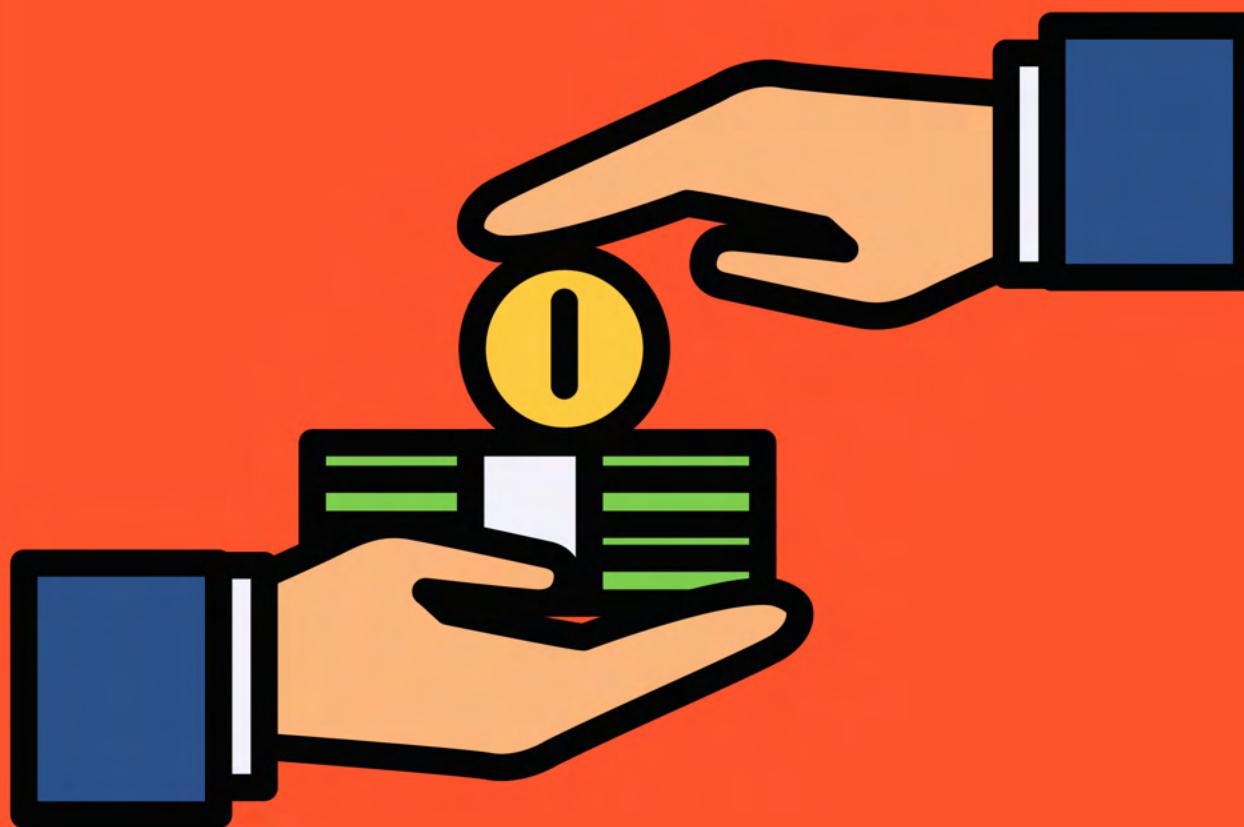
# Analyze order frequency per day of week and identify the peak day of week for each restaurant



	restaurant_name character varying (30)	day text	total_orders bigint
1	Shree Krish Point	TUESDAY	27
2	Hotel Riaan Corner	SATURDAY	24
3	Biryani Misha House	SUNDAY	18
4	Biryani Kartik House	WEDNESDAY	18
5	Spice Lakshit Heaven	SATURDAY	17
6	Tandoori Romil Hub	TUESDAY	16
7	Shree Divij Delight	WEDNESDAY	16
8	Cafe Zaina Heaven	THURSDAY	16
9	Spice Adira Kitchen	WEDNESDAY	15
10	Spice Armaan Bazaar	SATURDAY	15
11	Annapurna Pihu Palace	FRIDAY	15
12	Spice Ela Kitchen	MONDAY	15
13	Foodie Jivin Point	THURSDAY	15
14	Biryani Jiya Hub	THURSDAY	15
15	Foodie Hansh Corner	TUESDAY	15
16	Taste of Dishani Corner	WEDNESDAY	15
17	Hotel Aradhya Delight	SATURDAY	15
18	Biryani Jiya Hub	SUNDAY	15
19	Tandoori Gokul Bazaar	WEDNESDAY	15
20	Tandoori Eshani Delight	SATURDAY	14
21	Shree Elakshi Point	FRIDAY	14

# Customer lifetime value(CLV)

Calculate the total revenue generated by each customer



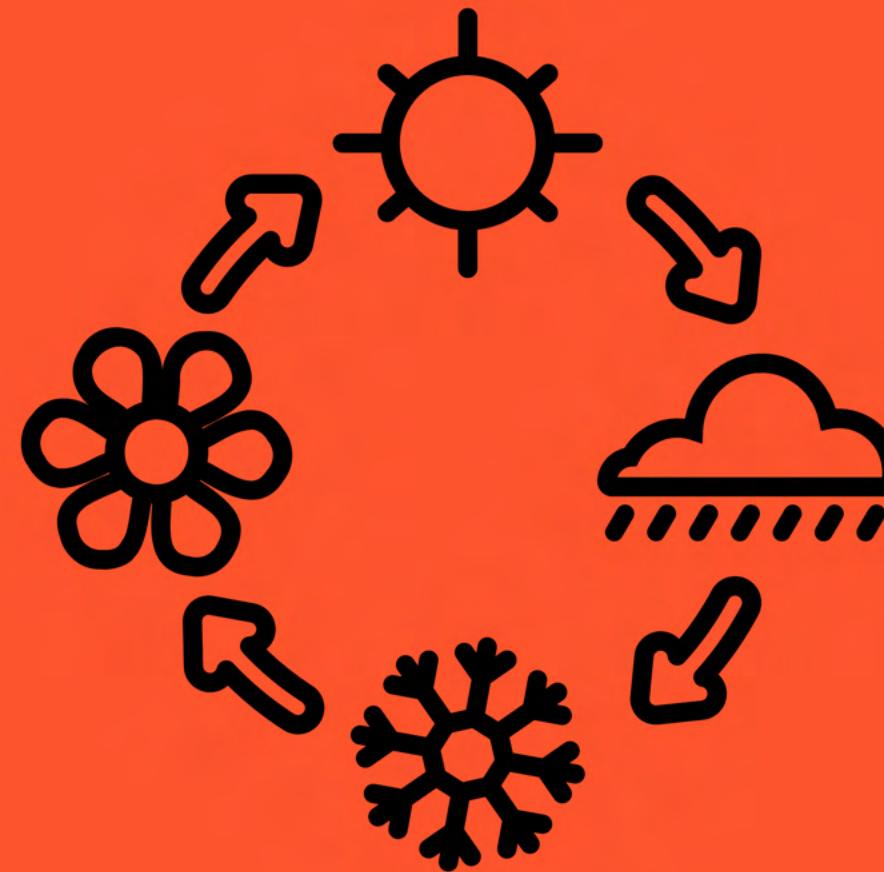
	customer_name character varying (30)	clv double precision
1	Kismat Bhardwaj	15554
2	Mamooty Brahmbhatt	13366
3	Anahita Ratti	13342
4	Zeeshan Saha	13008
5	Divit Basu	11357
6	Sahil Gupta	10970
7	Tanya Jani	10892
8	Krish Tiwari	10892
9	Ishaan Sengupta	10794
10	Samarth Balan	10692
11	Akarsh Sood	10415
12	Romil Sandal	10411
13	Ishita Saran	10388
14	Aradhya Aggarwal	10294
15	Navya Halder	10245
16	Farhan Sarma	10177
17	Himmat Contractor	10154
18	Alisha Baral	10096
19	Yasmin Rattan	10082
20	Tara Raja	10076
21	Nirvaan Kumer	10054

**Identify Sales trend by comparing each month total sales to previous month.**



	month text	total_sales double precision	previous_month double precision
1	24-07	73331	[null]
2	24-08	465340	73331
3	24-09	408466	465340
4	24-10	457518	408466
5	24-11	463079	457518
6	24-12	439301	463079
7	25-01	487279	439301
8	25-02	423722	487279
9	25-03	499268	423722
10	25-04	456009	499268
11	25-05	456749	456009
12	25-06	477742	456749
13	25-07	407440	477742

Track the popularity of the item over time and identify seasonal demand spike



	order_item character varying (50)	seasons text	total_orders bigint
1	Aloo Paratha	SUMMER	189
2	Aloo Paratha	MONSOON	127
3	Aloo Paratha	WINTER	88
4	Appam with Stew	SUMMER	165
5	Appam with Stew	MONSOON	126
6	Appam with Stew	WINTER	94
7	Baingan Bharta	SUMMER	167
8	Baingan Bharta	MONSOON	136
9	Baingan Bharta	WINTER	94
10	Biryani	SUMMER	160
11	Biryani	MONSOON	153
12	Biryani	WINTER	96
13	Butter Chicken	SUMMER	161
14	Butter Chicken	MONSOON	132
15	Butter Chicken	WINTER	86
16	Chicken Tikka Masala	SUMMER	165
17	Chicken Tikka Masala	MONSOON	140
18	Chicken Tikka Masala	WINTER	103
19	Chole Bhature	SUMMER	179
20	Chole Bhature	MONSOON	127
21	Chole Bhature	WINTER	109

SUMMER