

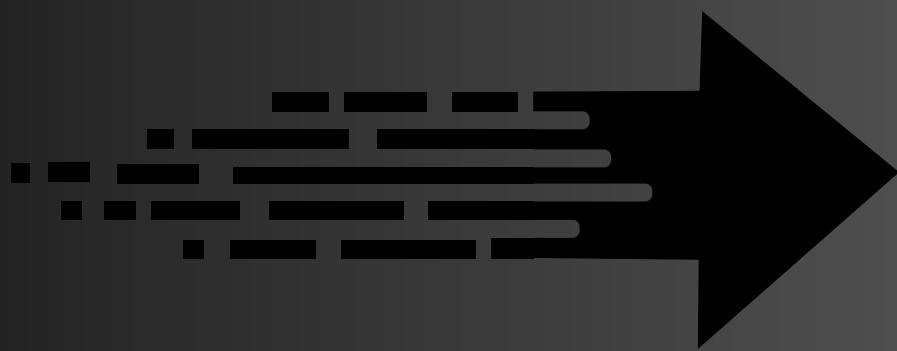


LeetCode

*50 Days 50 SQL Questions
Work Completion ✨*

Day 50/50

50. Restaurant Growth





50 Days 50 SQL Questions

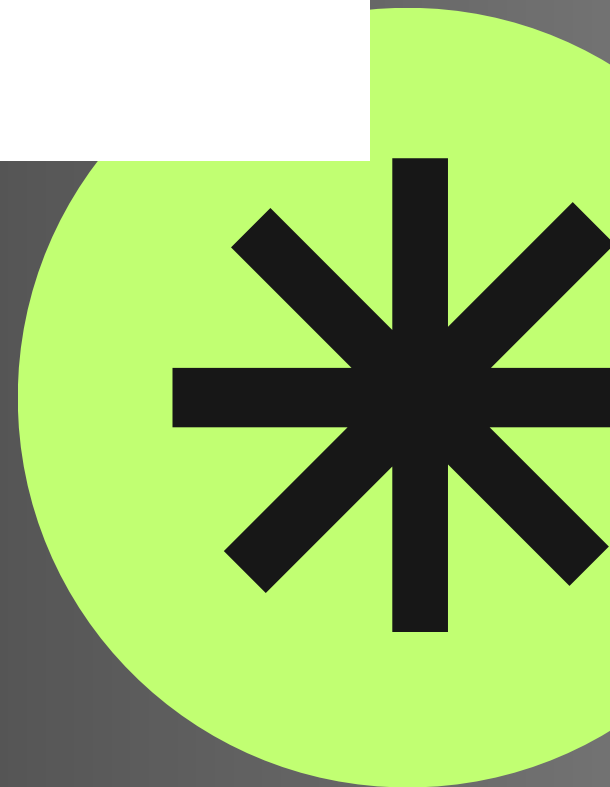
Work Completion

Question

You are the restaurant owner and you want to analyze a possible expansion (there will be at least one customer every day).

Compute the moving average of how much the customer paid in a seven days window (i.e., current day + 6 days before). `average_amount` should be **rounded to two decimal places**.

Return the result table ordered by `visited_on` **in ascending order**.





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Table

Input:

Customer table:

customer_id	name	visited_on	amount
1	Jhon	2019-01-01	100
2	Daniel	2019-01-02	110
3	Jade	2019-01-03	120
4	Khaled	2019-01-04	130
5	Winston	2019-01-05	110
6	Elvis	2019-01-06	140
7	Anna	2019-01-07	150
8	Maria	2019-01-08	80
9	Jaze	2019-01-09	110
1	Jhon	2019-01-10	130
3	Jade	2019-01-10	150





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Approach

Used subqueries to calculate amount & average_amount in which I used same logic of DATE_SUB func to make a window of 7 days. In the main query, I used where clause to select data from those date where it is either equal to or more than 7th day of dates and group the result by visited_on and ordered it by visited_on as well.





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Query

MySQL ▾ 🔒 Auto

```
1 # Write your MySQL query statement below
2 SELECT visited_on,
3     (SELECT SUM(amount) FROM Customer
4      WHERE visited_on BETWEEN DATE_SUB(c.visited_on,INTERVAL 6 DAY)
5      AND c.visited_on) AS amount,
6     (SELECT ROUND(SUM(amount)/7,2) FROM Customer
7      WHERE visited_on BETWEEN DATE_SUB(c.visited_on,INTERVAL 6 DAY)
8      AND c.visited_on) AS average_amount
9 FROM Customer c
10 WHERE visited_on >= (SELECT DATE_ADD(MIN(visited_on), INTERVAL 6 DAY) FROM Customer)
11 GROUP BY visited_on
12 ORDER BY visited_on;
13
```





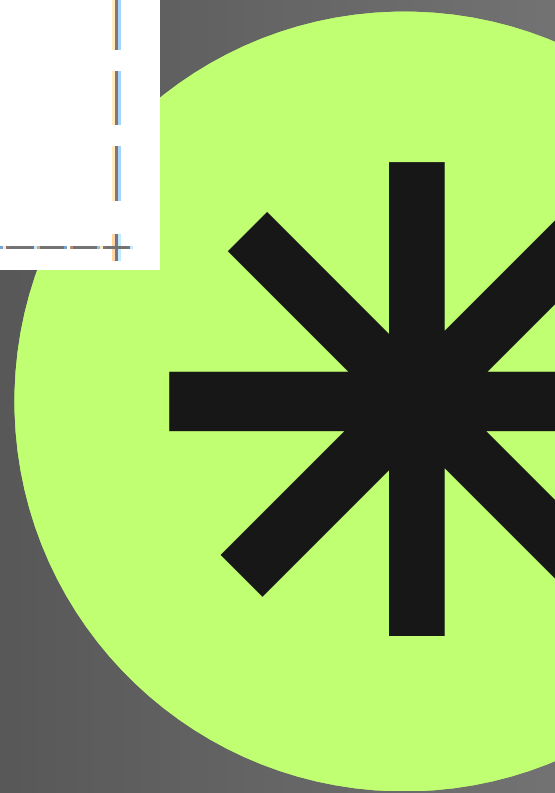
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Output

Output:

visited_on	amount	average_amount
2019-01-07	860	122.86
2019-01-08	840	120
2019-01-09	840	120
2019-01-10	1000	142.86

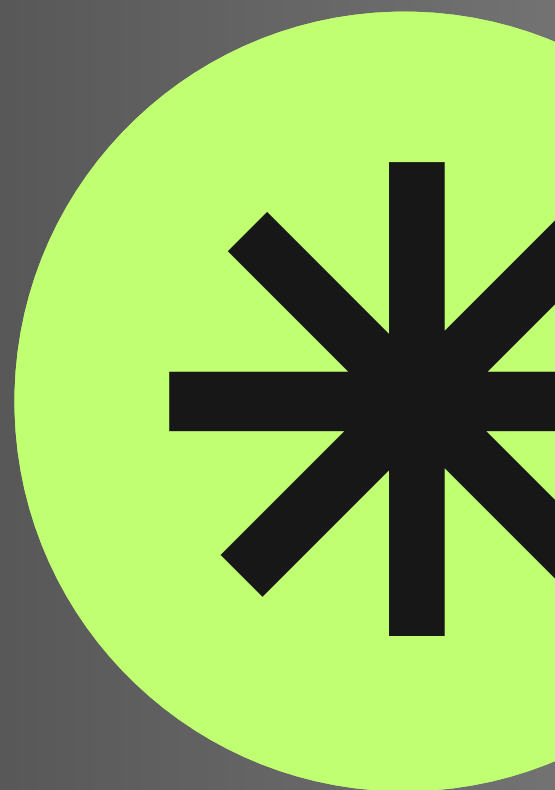
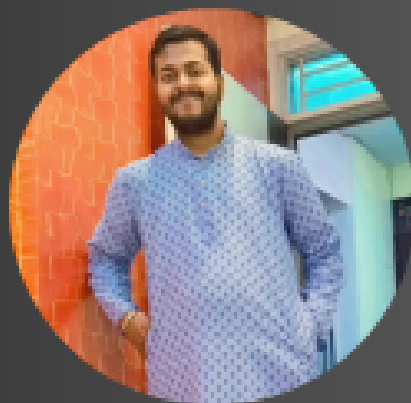




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Thank You :)

