

# 1321. Restaurant Growth

## Description

Table: Customer

```
+-----+-----+
| Column Name | Type   |
+-----+-----+
| customer_id | int    |
| name        | varchar|
| visited_on  | date   |
| amount      | int    |
+-----+-----+

In SQL, (customer_id, visited_on) is the primary key for this table.
This table contains data about customer transactions in a restaurant.
visited_on is the date on which the customer with ID (customer_id) has visited the restaurant.
amount is the total paid by a customer.
```

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**.

The result format is in the following example.

### Example 1:

**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

**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

**Explanation:**  
1st moving average from 2019-01-01 to 2019-01-07 has an average\_amount of  $(100 + 110 + 120 + 130 + 110 + 140 + 150)/7 = 122.86$   
2nd moving average from 2019-01-02 to 2019-01-08 has an average\_amount of  $(110 + 120 + 130 + 110 + 140 + 150 + 80)/7 = 120$   
3rd moving average from 2019-01-03 to 2019-01-09 has an average\_amount of  $(120 + 130 + 110 + 140 + 150 + 80 + 110)/7 = 120$   
4th moving average from 2019-01-04 to 2019-01-10 has an average\_amount of  $(130 + 110 + 140 + 150 + 80 + 110 + 130 + 150)/7 = 142.86$

