#### Medium

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:

+	+	+	+
custom	er_id   name	e   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:**

+	<b></b>	+	+
visited_on	amount	average_a	amount
+	<b></b>	+	+
2019-01-07	860	122.86	
2019-01-08	840	120	T.
2019-01-09	840	120	j
2019-01-10	1000	142.86	
+	<b></b>	+	+

# **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
# Write your MySQL query statement below
WITH smmry AS (
  SELECT visited on,
    SUM(amount) OVER w AS amount,
    ROUND(AVG(amount)OVER w,2) AS average amount,
    ROW NUMBER() OVER w AS row no
  FROM (
      SELECT visited_on, SUM(amount) AS amount
      FROM Customer
      GROUP BY visited on
    )ASR
  WINDOW w AS (ORDER BY visited on ROWS BETWEEN 6 preceding AND current ROW)
SELECT visited on, amount, average amount
FROM smmry
WHERE row_no \geq 7;
```