

# 1321. Restaurant Growth

Medium

56

10

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SQL Schema >

Table: Customer

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

(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) have 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).

Write an SQL query to compute moving average of how much customer paid in a 7 days window (current day + 6 days before) .

The query result format is in the following example:

Return result table ordered by visited\_on.

average\_amount should be **rounded to 2 decimal places**, all dates are in the format ("YYYY-MM-DD").

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    |

Result table:

| 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         |

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  $(130 + 110 + 140 + 150 + 80 + 110 + 130 + 150)/7 = 142.86$