SQL Schema

Table: Customer

+---------------+---------+

| Column Name | Type |

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| customer\_id | int |

| name | varchar |

| visited\_on | date |

| amount | int |

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(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 |

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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