SQL Schema

Table: Prices

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

| Column Name | Type |

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

| product\_id | int |

| start\_date | date |

| end\_date | date |

| price | int |

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

(product\_id, start\_date, end\_date) is the primary key for this table.

Each row of this table indicates the price of the product\_id in the period from start\_date to end\_date.

For each product\_id there will be no two overlapping periods. That means there will be no two intersecting periods for the same product\_id.

Table: UnitsSold

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| Column Name | Type |

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

| product\_id | int |

| purchase\_date | date |

| units | int |

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There is no primary key for this table, it may contain duplicates.

Each row of this table indicates the date, units and product\_id of each product sold.

Write an SQL query to find the average selling price for each product.

average\_price should be **rounded to 2 decimal places**.

The query result format is in the following example:

Prices table:

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

| product\_id | start\_date | end\_date | price |

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

| 1 | 2019-02-17 | 2019-02-28 | 5 |

| 1 | 2019-03-01 | 2019-03-22 | 20 |

| 2 | 2019-02-01 | 2019-02-20 | 15 |

| 2 | 2019-02-21 | 2019-03-31 | 30 |

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

UnitsSold table:

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

| product\_id | purchase\_date | units |

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

| 1 | 2019-02-25 | 100 |

| 1 | 2019-03-01 | 15 |

| 2 | 2019-02-10 | 200 |

| 2 | 2019-03-22 | 30 |

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Result table:

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| product\_id | average\_price |

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

| 1 | 6.96 |

| 2 | 16.96 |

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Average selling price = Total Price of Product / Number of products sold.

Average selling price for product 1 = ((100 \* 5) + (15 \* 20)) / 115 = 6.96

Average selling price for product 2 = ((200 \* 15) + (30 \* 30)) / 230 = 16.96