1251. Average Selling Price

Description

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 (combination of columns with unique values) 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

+	++
Column Name	Type
+	int

This table may contain duplicate rows.

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

Write a solution to find the average selling price for each product. average_price should be rounded to 2 decimal places.

Return the result table in any order.

The result format is in the following example.

Example 1:

Input:
Prices table:

+ product_id	start_date	end_date	price
1 2	2019-02-17 2019-03-01 2019-02-01	+ 2019-02-28 2019-03-22 2019-02-20 2019-03-31	5 20 15

UnitsSold table:

product_id	 purchase_date 	units
1 1 2	2019-02-25 2019-03-01 2019-02-10	100 15 200 30

Output:

l	product_id	average_price	
ļ	1		

Explanation:

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