

# Problem 1251: Average Selling Price

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 36.95%

**Paid Only:** No

**Tags:** Database

## Problem 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 | +-----+-----+ | product\_id | int | | purchase\_date | date | | units | 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\*\***. If a product does not have any sold units, its average selling price is assumed to be 0.

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 | 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 | +-----+-----+-----+ **\*\*Output:\*\*** +-----+-----+ | product\_id | average\_price | +-----+-----+ | 1 | 6.96 | | 2 | 16.96 | +-----+-----+ **\*\*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

## Code Snippets

### MySQL:

```
# Write your MySQL query statement below
```

### MS SQL Server:

```
/* Write your T-SQL query statement below */
```

### PostgreSQL:

```
-- Write your PostgreSQL query statement below
```