

Description Editorial Solutions (667) Submissions

## 1251. Average Selling Price

Easy 653 54

Companies

SQL Schema &gt;

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

Column Name	Type
product_id	int
purchase_date	date
units	int

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.

Return the result table in any order.

The query 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

MySQL Auto

```
1 # Write your MySQL query statement below
2 WITH t1 AS(
3     SELECT p.product_id, p.price, us.units, p.price*us.units AS total
4     FROM Prices p
5     RIGHT JOIN UnitsSold us
6     USING(product_id)
7     WHERE
8         DATEDIFF(end_date,purchase_date)>=0
9         AND
10        DATEDIFF(purchase_date,start_date)>=0)
11
12 SELECT product_id, ROUND(SUM(total)/SUM(units),2) AS average_price
13 FROM t1
14 GROUP BY product_id
15
```

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Console ^

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Yes No

Discussion (27)

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