

Description Editorial Solutions (667) Submissions

1251. Average Selling Price

Easy 653 54

Companies

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

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         us.purchase_date BETWEEN
9         p.start_date
10        AND
11        p.end_date
12 )
13
14 SELECT product_id, ROUND(SUM(total)/SUM(units),2) AS average_price
15 FROM t1
16 GROUP BY product_id
17
```

Ln 11, Col 7

Console ^

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Yes No

Discussion (27)

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