

Description Editorial Solutions (588) Submissions

1070. Product Sales Analysis III

Medium 201 591

Companies

SQL Schema

Table: Sales

| Column Name | Type |
|-------------|------|
| sale_id | int |
| product_id | int |
| year | int |
| quantity | int |
| price | int |

(sale_id, year) is the primary key (combination of columns with unique values) of this table.
product_id is a foreign key (reference column) to Product table.
Each row of this table shows a sale on the product product_id in a certain year.
Note that the price is per unit.

Table: Product

| Column Name | Type |
|--------------|---------|
| product_id | int |
| product_name | varchar |

product_id is the primary key (column with unique values) of this table.
Each row of this table indicates the product name of each product.

Write a solution to select the **product id**, **year**, **quantity**, and **price** for the **first year** of every product sold.

Return the resulting table in **any order**.

The result format is in the following example.

Example 1:

Input:

Sales table:

| sale_id | product_id | year | quantity | price |
|---------|------------|------|----------|-------|
| 1 | 100 | 2008 | 10 | 5000 |
| 2 | 100 | 2009 | 12 | 5000 |
| 7 | 200 | 2011 | 15 | 9000 |

Product table:

| product_id | product_name |
|------------|--------------|
| 100 | Nokia |
| 200 | Apple |
| 300 | Samsung |

Output:

| product_id | first_year | quantity | price |
|------------|------------|----------|-------|
| 100 | 2008 | 10 | 5000 |
| 200 | 2011 | 15 | 9000 |

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Seen this question in a real interview before? 1/4

Yes No

Discussion (37)

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MySQL Auto

```
1 # Write your MySQL query statement below
2 WITH t1 AS(
3     SELECT
4         product_id,
5         MIN(year) AS first_year
6     FROM Sales
7     GROUP BY product_id
8 )
9
10 SELECT
11     s.product_id,
12     t1.first_year,
13     s.quantity,
14     s.price
15 FROM Sales s
16 RIGHT JOIN t1
17 USING(product_id)
18 WHERE s.year = t1.first_year
```

Ln 14, Col 3

Console

Run

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