Problem 1164: Product Price at a Given Date

Problem Information

Difficulty: Medium
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Table:

Products

+---------------+---------+ | Column Name | Type | +---------------+---------+ | product_id | int | | new_price | int | | change_date | date | +---------------+---------+ (product_id, change_date) is the primary key (combination of columns with unique values) of this table. Each row of this table indicates that the price of some product was changed to a new price at some date.

Initially, all products have price 10.

Write a solution to find the prices of all products on the date

2019-08-16

.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

Products table: +------------+-----------+-------------+ | product_id | new_price | change_date | +------------+-----------+-------------+ | 1 | 20 | 2019-08-14 | | 2 | 50 | 2019-08-14 | | 1 | 30 | 2019-08-15 | | 1 | 35 | 2019-08-16 | | 2 | 65 | 2019-08-17 | | 3 | 20 | 2019-08-18 | +------------+-----------+-------------+

Output:

+------------+-------+ | product_id | price | +------------+-------+ | 2 | 50 | | 1 | 35 | | 3 | 10 | +------------+-------+

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
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def price_at_given_date(products: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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