

Medium

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.

Write a solution to find the prices of all products on 2019-08-16. Assume the price of all products before any change is 10.

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

Write your MySQL query statement below

```
WITH sub AS (SELECT product_id,
                    new_price AS price,
                    change_date,
                    ROW_NUMBER() OVER (PARTITION BY product_id ORDER BY change_date DESC) AS rn
FROM Products WHERE change_date <='2019-08-16')
```

```
SELECT product_id, price
FROM sub
WHERE rn=1
```

```
UNION
```

```
SELECT product_id, 10 AS price
FROM Products
WHERE product_id NOT IN (SELECT product_id
                        FROM sub
                        WHERE rn=1)
```