

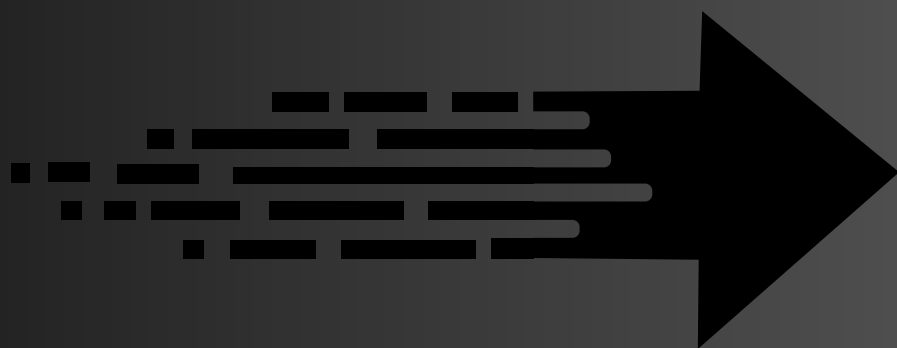


LeetCode

50 Days 50 SQL Questions
Work In Progress

Day 34/50

***34. Product price at a
Given date***





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Question

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**.





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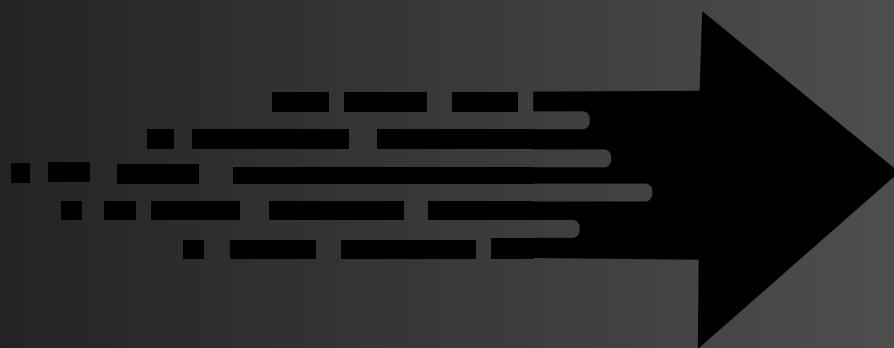
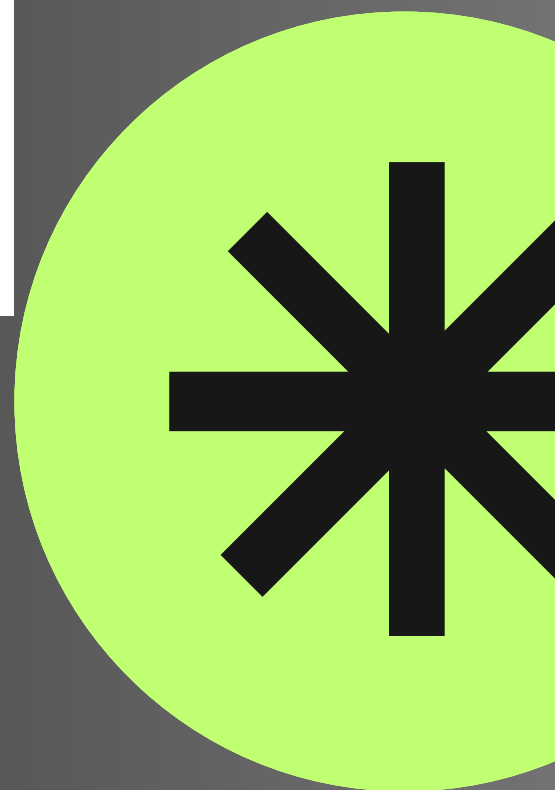
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Table

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 |





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Approach

Used Union to first get those product_id and price where change date is less than or equal to 2019-08-16 and then selected those product_id whose prices ain't given on or before 2019-08-16.





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Query

```
MySQL v Auto

1  # Write your MySQL query statement below
2
3  SELECT
4      product_id,
5      new_price AS price
6  FROM products
7  WHERE (product_id , change_date) in
8      (SELECT
9          product_id ,
10         MAX(change_date)
11      FROM products
12      WHERE change_date <= '2019-08-16'
13      GROUP BY product_id)
14 UNION
15 SELECT
16     product_id, 10 AS price
17  FROM products
18  WHERE product_id NOT IN
19      (SELECT product_id |
20      FROM products
21      WHERE change_date <= '2019-08-16');
```





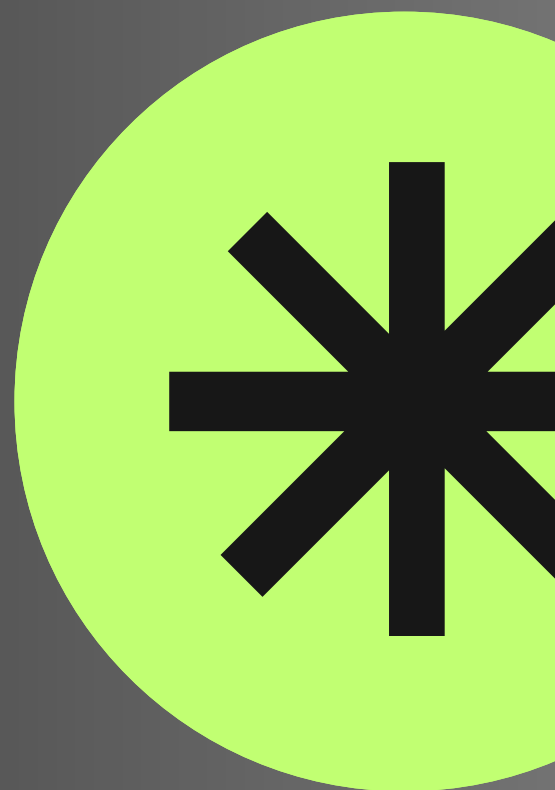
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Output

Output:

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





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thoughts in the
comment section*

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Thank You :)

