

1225. Report Contiguous Dates Premium

Hard Topics Companies

SQL Schema > Pandas Schema >

Table: Failed

| Column Name | Type |
|---------------------------------------------------------------------------------------------------------------------------|------|
| fail_date | date |
| fail_date is the primary key (column with unique values) for this table. This table contains the days of failed tasks. | |

Table: Succeeded

| Column Name | Type |
|---------------------------------------------------------------------------------------------------------------------------------|------|
| success_date | date |
| success_date is the primary key (column with unique values) for this table. This table contains the days of succeeded tasks. | |

A system is running one task **every day**. Every task is independent of the previous tasks. The tasks can fail or succeed.

Write a solution to report the `period_state` for each continuous interval of days in the period from `2019-01-01` to `2019-12-31`.

`period_state` is `'failed'` if tasks in this interval failed or `'succeeded'` if tasks in this interval succeeded. Interval of days are retrieved as `start_date` and `end_date`.

Return the result table ordered by `start_date`.

The result format is in the following example.

Example 1:

Input:
Failed table:

| fail_date |
|------------|
| 2018-12-28 |
| 2018-12-29 |
| 2019-01-04 |
| 2019-01-05 |

Succeeded table:

| success_date |
|--------------|
| 2018-12-30 |
| 2018-12-31 |
| 2019-01-01 |
| 2019-01-02 |
| 2019-01-03 |
| 2019-01-06 |

Output:

| period_state | start_date | end_date |
|--------------|------------|------------|
| succeeded | 2019-01-01 | 2019-01-03 |
| failed | 2019-01-04 | 2019-01-05 |
| succeeded | 2019-01-06 | 2019-01-06 |

Explanation:
The report ignored the system state in 2018 as we care about the system in the period 2019-01-01 to 2019-12-31.
From 2019-01-01 to 2019-01-03 all tasks succeeded and the system state was "succeeded".
From 2019-01-04 to 2019-01-05 all tasks failed and the system state was "failed".
From 2019-01-06 to 2019-01-06 all tasks succeeded and the system state was "succeeded".

Seen this question in a real interview before? 1/5

Yes No

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