

1225. Report Contiguous Dates

Description

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".			

