

Description Solution Submissions Discuss (62)

## 1225. Report Contiguous Dates

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SQL Schema

Table: Failed

```

+-----+
| Column Name | Type |
+-----+
| fail_date   | date |
+-----+
Primary key for this table is fail_date.
Failed table contains the days of failed tasks.
    
```

Table: Succeeded

```

+-----+
| Column Name | Type |
+-----+
| success_date | date |
+-----+
Primary key for this table is success_date.
Succeeded 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 an SQL query to generate a report of `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`.

Order result by `start_date`.

The query result format is in the following example:

```

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   |
+-----+

Result table:
+-----+
| 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 |
+-----+
    
```

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 system state was "failed".  
 From 2019-01-06 to 2019-01-06 all tasks succeeded and system state was "succeeded".

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Seen this question in a real interview before?

Yes No

Contributor

Companies 🏢 i

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