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Description Accepted Editorial Solutions Submissions

1369. Get the Second Most Recent Activity Solved

Hard Topics Companies

SQL Schema > Pandas Schema >

Table: UserActivity

Column Name	Type
username	varchar
activity	varchar
startDate	Date
endDate	Date

This table may contain duplicates rows.
This table contains information about the activity performed by each user in a period of time.
A person with username performed an activity from startDate to endDate.

Write a solution to show the **second most recent activity** of each user.

If the user only has one activity, return that one. A user cannot perform more than one activity at the same time.

Return the result table in **any order**.

The result format is in the following example.

Example 1:

Input:
UserActivity table:

username	activity	startDate	endDate
Alice	Travel	2020-02-12	2020-02-20
Alice	Dancing	2020-02-21	2020-02-23
Alice	Travel	2020-02-24	2020-02-28
Bob	Travel	2020-02-11	2020-02-18

Output:

username	activity	startDate	endDate
Alice	Dancing	2020-02-21	2020-02-23
Bob	Travel	2020-02-11	2020-02-18

Explanation:
The most recent activity of Alice is Travel from 2020-02-24 to 2020-02-28, before that she was dancing from 2020-02-21 to 2020-02-23.
Bob only has one record, we just take that one.

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

Accepted 25,666 / 38.1K | Acceptance Rate 67.3%

Topics

Companies 6 months ago Microsoft 2

Discussion (3)

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Code

Pandas Auto

```

1 import pandas as pd
2
3 def second_most_recent(user_activity: pd.DataFrame) -> pd.DataFrame:
4
5     return (user_activity.sort_values('endDate')
6             .groupby('username').tail(2)
7             .groupby('username').head(1))
8

```

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Testcase Test Result

username	activity	startDate	endDate
Bob	Travel	2020-02-11	2020-02-18
Alice	Dancing	2020-02-21	2020-02-23

Expected

username	activity	startDate	endDate
Bob	Travel	2020-02-11	2020-02-18
Alice	Dancing	2020-02-21	2020-02-23