



# LeetCode

*50 Days 50 SQL Questions*  
*Work In Progress*

**Day 22/50**

**22. Game Play Analysis**  
**IV**





# *50 Days 50 SQL Questions*

## *Work In Progress*

# *Question*

Write a solution to report the **fraction** of players that logged in again on the day after the day they first logged in, **rounded to 2 decimal places**. In other words, you need to count the number of players that logged in for at least two consecutive days starting from their first login date, then divide that number by the total number of players.





# *50 Days 50 SQL Questions*

## *Work In Progress*

# *Table*

**Input:**

Activity table:

player_id	device_id	event_date	games_played
1	2	2016-03-01	5
1	2	2016-03-02	6
2	3	2017-06-25	1
3	1	2016-03-02	0
3	4	2018-07-03	5





# *50 Days 50 SQL Questions*

## *Work In Progress*

# *Approach*

Used 1st CTE to get next date through lead func and rank it through player\_id, 2nd CTE for fetching records where player played for 1st time, 3rd CTE for counting no. of players who played the game for 2 consecutive days and then at last found fraction of users who played consecutive to all users.





# 50 Days 50 SQL Questions

## Work In Progress

# Query

MySQL Auto



```
1  WITH A AS (  
2      SELECT player_id, event_date,  
3          LEAD(event_date) OVER (PARTITION BY player_id ORDER BY event_date) AS next_date,  
4          RANK() OVER (PARTITION BY player_id ORDER BY event_date) AS rnk  
5      FROM activity  
6  ),  
7  
8  B AS (  
9      SELECT player_id, event_date, next_date  
10     FROM A  
11     WHERE rnk = 1  
12 ),  
13  
14 C AS (  
15     SELECT COUNT(player_id) AS cnt1  
16     FROM B  
17     WHERE next_date IS NOT NULL  
18         AND DATEDIFF(next_date, event_date) = 1  
19 )  
20  
21 SELECT ROUND(C.cnt1 / (SELECT COUNT(DISTINCT player_id) FROM Activity), 2) AS fraction  
22 FROM C;  
23
```





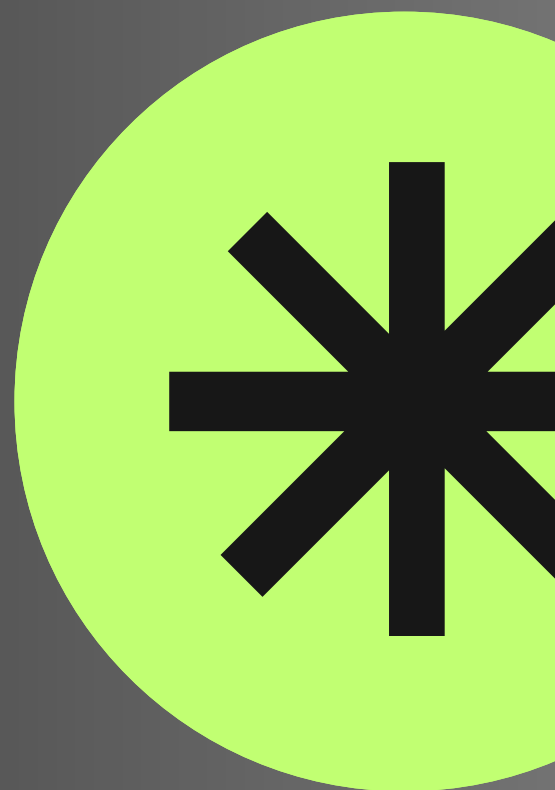
# *50 Days 50 SQL Questions*

## *Work In Progress*

# *Output*

**Output:**

+	-----	+
	fraction	
+	-----	+
	0.33	
+	-----	+





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## *Work In Progress*

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thoughts in the  
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*Thank You :)*

