

# **SQL LEETCODE PROBLEMS**

## **QUESTION 8**

### **Game Play Analysis**

-- Mayuri D.

## Data--

7 • **SELECT \* FROM activity;**



Result Grid



Filter Rows:

Export:



	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

```
8
9  -- q1: Write an SQL query that reports the first login date for each player
10 • SELECT player_id, MIN(event_date) AS firsttime_login
11    FROM activity
12   GROUP BY player_id;
```

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Result Grid   Filter Rows:  | Export:  | Wrap Cell Content: 

	player_id	firsttime_login
▶	1	2016-03-01
	2	2017-06-25
	3	2016-03-02

```
14 -- q2: Write a SQL query that reports the device that is first logged in for each player
15 • SELECT player_id, device_id, event_date, games_played FROM
16 (
17     SELECT *,
18     RANK() OVER(PARTITION BY player_id ORDER BY event_date) AS rn
19     FROM activity
20 ) a
21 WHERE rn = 1;
22
```

< Result Grid Filter Rows: Export: Wrap Cell Content:

	player_id	device_id	event_date	games_played
▶	1	2	2016-03-01	5
	2	3	2017-06-25	1
	3	1	2016-03-02	0

```
23  /* q3: Write an SQL query that reports for each player and date, how many games played so far by the player.  
24     That is, the total number of games played by the player until that date. */  
25  •  SELECT *,  
26     SUM(games_played) OVER(PARTITION BY player_id ORDER BY event_date) AS total_played  
27  FROM activity;  
28
```

< **Result Grid**   Filter Rows:  | Export:  | Wrap Cell Content: 

	player_id	device_id	event_date	games_played	total_played
▶	1	2	2016-03-01	5	5
	1	2	2016-03-02	6	11
	2	3	2017-06-25	1	1
	3	1	2016-03-02	0	0
	3	4	2018-07-03	5	5

```

29  /* q4: Write an SQL query that reports the fraction of players that
30     logged in again on the day after the day they first logged in,
31     rounded to 2 decimal places */
32  • WITH min_date AS
33      (
34          SELECT player_id, MIN(event_date) AS first_login
35          FROM activity
36          GROUP BY player_id
37      )
38      SELECT a.*, first_login
39      FROM activity a
40      INNER JOIN min_date md ON a.player_id = md.player_id
41      WHERE DATEDIFF(event_date, first_login) = 1;
42

```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



	player_id	device_id	event_date	games_played	first_login
▶	1	2	2016-03-02	6	2016-03-01

**THANK YOU**

-- Mayuri D.