

1809. Ad-Free Sessions Premium

Easy Topics Companies

SQL Schema > Pandas Schema >

Table: Playback

| Column Name | Type |
|-------------|------|
| session_id  | int  |
| customer_id | int  |
| start_time  | int  |
| end_time    | int  |

session\_id is the column with unique values for this table.  
customer\_id is the ID of the customer watching this session.  
The session runs during the **inclusive** interval between start\_time and end\_time.  
It is guaranteed that start\_time <= end\_time and that two sessions for the same customer do not intersect.

Table: Ads

| Column Name | Type |
|-------------|------|
| ad_id       | int  |
| customer_id | int  |
| timestamp   | int  |

ad\_id is the column with unique values for this table.  
customer\_id is the ID of the customer viewing this ad.  
timestamp is the moment of time at which the ad was shown.

Write a solution to report all the sessions that did not get shown any ads.

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

The result format is in the following example.

Example 1:

**Input:**

Playback table:

| session_id | customer_id | start_time | end_time |
|------------|-------------|------------|----------|
| 1          | 1           | 1          | 5        |
| 2          | 1           | 15         | 23       |
| 3          | 2           | 10         | 12       |
| 4          | 2           | 17         | 28       |
| 5          | 2           | 2          | 8        |

Ads table:

| ad_id | customer_id | timestamp |
|-------|-------------|-----------|
| 1     | 1           | 5         |
| 2     | 2           | 17        |
| 3     | 2           | 20        |

**Output:**

| session_id |
|------------|
| 2          |
| 3          |
| 5          |

**Explanation:**  
The ad with ID 1 was shown to user 1 at time 5 while they were in session 1.  
The ad with ID 2 was shown to user 2 at time 17 while they were in session 4.  
The ad with ID 3 was shown to user 2 at time 20 while they were in session 4.  
We can see that sessions 1 and 4 had at least one ad. Sessions 2, 3, and 5 did not have any ads, so we return them.

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

Yes No

Accepted 16.7K | Submissions 28.5K | Acceptance Rate 58.6%

Topics

Database

Companies

0 - 6 months

Amazon 2

Discussion (4)