

Problem List

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### 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.

</> Code

MySQL • Auto

```
1 # Write your MySQL query statement below
2
3 SELECT session_id FROM Playback WHERE session_id NOT IN (
4 SELECT DISTINCT a.session_id FROM (
5     SELECT t1.session_id, t2.ad_id, t1.customer_id, t2.timestamp, t1.start_time, t1.end_time FROM Playback t1 LEFT JOIN
6     Ads t2 ON t1.customer_id = t2.customer_id
7 )a WHERE a.timestamp >= a.start_time AND a.timestamp <= a.end_time
8 GROUP BY a.ad_id
9 )
10
```

Testcase > Test Result

Accepted Runtime: 281 ms

Case 1

Input

Playback =

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 =

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

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

Yes No

Accepted 15.4K | Submissions 26.4K | Acceptance Rate 58.3%

Topics

Companies

Discussion (3)

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1	1	5	