Problem 1809: Ad-Free Sessions

Problem Information

Difficulty: Easy
Acceptance Rate: 58.75%
Paid Only: Yes
Tags: Database

Problem Description

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 Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```