

Problem 2020: Number of Accounts That Did Not Stream

Problem Information

Difficulty: Medium

Acceptance Rate: 72.01%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Subscriptions`

+-----+-----+ | Column Name | Type | +-----+-----+ | account_id | int | | start_date | date | | end_date | date | +-----+-----+ account_id is the primary key column for this table. Each row of this table indicates the start and end dates of an account's subscription. Note that always start_date < end_date.

Table: `Streams`

+-----+-----+ | Column Name | Type | +-----+-----+ | session_id | int | | account_id | int | | stream_date | date | +-----+-----+ session_id is the primary key column for this table. account_id is a foreign key from the Subscriptions table. Each row of this table contains information about the account and the date associated with a stream session.

Write an SQL query to report the number of accounts that bought a subscription in `2021` but did not have any stream session.

The query result format is in the following example.

****Example 1:****

****Input:**** Subscriptions table: +-----+-----+-----+ | account_id | start_date | end_date | +-----+-----+-----+ | 9 | 2020-02-18 | 2021-10-30 | | 3 | 2021-09-21 | 2021-11-13 | | 11 | 2020-02-28 | 2020-08-18 | | 13 | 2021-04-20 | 2021-09-22 | | 4 | 2020-10-26 | 2021-05-08 | | 5 | 2020-09-11 | 2021-01-17 | +-----+-----+-----+ Streams table:

```

+-----+-----+-----+ | session_id | account_id | stream_date |
+-----+-----+-----+ | 14 | 9 | 2020-05-16 | | 16 | 3 | 2021-10-27 | | 18 | 11 |
2020-04-29 | | 17 | 13 | 2021-08-08 | | 19 | 4 | 2020-12-31 | | 13 | 5 | 2021-01-05 |
+-----+-----+-----+ **Output:** +-----+ | accounts_count |
+-----+ | 2 | +-----+ **Explanation:** Users 4 and 9 did not stream in 2021.
User 11 did not subscribe in 2021.

```

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
```