2020. Number of Accounts That Did Not Stream `Premium`

`Medium` `Topics` `Companies`

SQL Schema > Pandas Schema >

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.
```

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

`Yes` `No`

Accepted **11.3K** | Submissions **15.6K** | Acceptance Rate **72.1%**

🏷 Topics

`Database`

📇 Companies

0 - 6 months

`Warnermedia` 2

💬 Discussion (8)