Problem 2112: The Airport With the Most Traffic

Problem Information

Difficulty: Medium
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Table:

Flights

+-------------------+------+ | Column Name | Type | +-------------------+------+ | departure_airport | int | | arrival_airport | int | | flights_count | int | +-------------------+------+ (departure_airport, arrival_airport) is the primary key column (combination of columns with unique values) for this table. Each row of this table indicates that there were flights_count flights that departed from departure_airport and arrived at arrival_airport.

Write a solution to report the ID of the airport with the

most traffic

. The airport with the most traffic is the airport that has the largest total number of flights that either departed from or arrived at the airport. If there is more than one airport with the most traffic, report them all.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

Flights table:

departure_airport	arrival_airport	flights_count
1	2	4
2	1	5
2	4	5

Output:

airport_id
2

Explanation:

Airport 1 was engaged with 9 flights (4 departures, 5 arrivals). Airport 2 was engaged with 14 flights (10 departures, 4 arrivals). Airport 4 was engaged with 5 flights (5 arrivals). The airport with the most traffic is airport 2.

Example 2:

Input:

Flights table:

departure_airport	arrival_airport	flights_count
1	2	4
2	1	5
3	4	5
4	3	4
5	6	7

Output:

airport_id
1
2
3
4

Explanation:

Airport 1 was engaged with 9 flights (4 departures, 5 arrivals). Airport 2 was engaged with 9 flights (5 departures, 4 arrivals). Airport 3 was engaged with 9 flights (5 departures, 4 arrivals). Airport 4 was engaged with 9 flights (4 departures, 5 arrivals). Airport 5 was engaged with 7 flights (7 departures). Airport 6 was engaged with 7 flights (7 arrivals). The airports with the most traffic are airports 1, 2, 3, and 4.

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
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd


def airport_with_most_traffic(flights: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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