

2783. Flight Occupancy and Waitlist Analysis Premium

Medium  Topics

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Table: `Flights`

Column Name	Type
flight_id	int
capacity	int

flight_id is the column with unique values for this table.
Each row of this table contains flight id and its capacity.

Table: `Passengers`

Column Name	Type
passenger_id	int
flight_id	int

passenger_id is the column with unique values for this table.
Each row of this table contains passenger id and flight id.

Passengers book tickets for flights in advance. If a passenger books a ticket for a flight and there are still empty seats available on the flight, the passenger ticket will be **confirmed**. However, the passenger will be on a **waitlist** if the flight is already at full capacity.

Write a solution to report the number of passengers who successfully booked a flight (got a seat) and the number of passengers who are on the waitlist for each flight.

Return the result table ordered by `flight_id` in **ascending order**.

The result format is in the following example.

Example 1:

Input:

Flights table:

flight_id	capacity
1	2
2	2
3	1

Passengers table:

passenger_id	flight_id
101	1
102	1
103	1
104	2
105	2
106	3
107	3

Output:

flight_id	booked_cnt	waitlist_cnt
1	2	1
2	2	0
3	1	1


Explanation:

- Flight 1 has a capacity of 2. As there are 3 passengers who have booked tickets, only 2 passengers can get a seat. Therefore, 2 passengers are successfully booked, and 1 passenger is on the waitlist.
- Flight 2 has a capacity of 2. Since there are exactly 2 passengers who booked tickets, everyone can secure a seat. As a result, 2 passengers successfully booked their seats and there are no passengers on the waitlist.
- Flight 3 has a capacity of 1. As there are 2 passengers who have booked tickets, only 1 passenger can get a seat. Therefore, 1 passenger is successfully booked, and 1 passenger is on the waitlist.


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

Yes No

Accepted 3K | Submissions 8K | Acceptance Rate 37.8%

 Topics

Database

 Discussion (4)