

# Problem 2783: Flight Occupancy and Waitlist Analysis

## Problem Information

Difficulty: **Medium**

Acceptance Rate: 38.46%

Paid Only: Yes

Tags: Database

## Problem Description

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.

## 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
```