

Problem List

DescriptionAcceptedEditorialSolutionsSubmissions

2793. Status of Flight Tickets

Hard

Solved

SQL SchemaPandas Schema

Table: Flights

Column Name	Type
flight_id	int
capacity	int

flight_id column contains distinct values.
Each row of this table contains flight id and capacity.

Table: Passengers

Column Name	Type
passenger_id	int
flight_id	int
booking_time	datetime

passenger_id column contains distinct values.
booking_time column contains distinct values.
Each row of this table contains passenger id, booking time, and their 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's ticket will be **confirmed**. However, the passenger will be on a **waitlist** if the flight is already at full capacity.

Write a solution to determine the current status of flight tickets for each passenger.

Return the result table ordered by `passenger_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	booking_time
101	1	2023-07-10 16:30:00
102	1	2023-07-10 17:45:00
103	1	2023-07-10 12:00:00
104	2	2023-07-05 13:23:00
105	2	2023-07-05 09:00:00
106	3	2023-07-08 11:10:00
107	3	2023-07-08 09:10:00

Output:

passenger_id	Status
101	Confirmed
102	Waitlist
103	Confirmed
104	Confirmed
105	Confirmed
106	Waitlist
107	Confirmed

Explanation:

- Flight 1 has a capacity of 2 passengers. Passenger 101 and Passenger 103 were the first to book tickets, securing the available seats. Therefore, their bookings are confirmed. However, Passenger 102 was the third person to book a ticket for this flight, which means there are no more available seats. Passenger 102 is now placed on the waitlist,
- Flight 2 has a capacity of 2 passengers, Flight 2 has exactly two passengers who booked tickets, Passenger 104 and Passenger 105. Since the number of passengers who booked tickets matches the available seats, both bookings are confirmed.
- Flight 3 has a capacity of 1 passenger. Passenger 107 booked earlier and secured the only available seat, confirming their booking. Passenger 106, who booked after Passenger 107, is on the waitlist.

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

YesNo

Accepted 3,247/4.2K | Acceptance Rate 78.0%

Discussion (11)

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Code

Pandas

```
1 import pandas as pd
2
3 def ticket_status(flights: pd.DataFrame, passengers: pd.DataFrame) -> pd.DataFrame:
4
5     df = pd.merge(flights, passengers, on='flight_id')
6     df['rank'] = df.groupby('flight_id')['booking_time'].rank(method='min')
7     df['Status'] = np.where(df['rank'] <= df['capacity'], 'Confirmed', 'Waitlist')
8
9     return df[['passenger_id', 'Status']].sort_values(by='passenger_id')
```

Ln 11, Col 1

Testcase 1 Test Result

103	1	2023-07-10 12:00:00
104	2	2023-07-05 13:23:00
105	2	2023-07-05 09:00:00
106	3	2023-07-08 11:10:00

View more

Output

passenger_id	Status
101	Confirmed
102	Waitlist
103	Confirmed
104	Confirmed