

Description Editorial Solutions (768) Submissions

## 1204. Last Person to Fit in the Bus

Medium 🟢 447 24 ⭐ 🔄

Companies

SQL Schema &gt;

Table: Queue

Column Name	Type
person_id	int
person_name	varchar
weight	int
turn	int

person\_id column contains unique values.

This table has the information about all people waiting for a bus. The person\_id and turn columns will contain all numbers from 1 to n, where n is the number of rows in the table.

turn determines the order of which the people will board the bus, where turn=1 denotes the first person to board and turn=n denotes the last person to board.

weight is the weight of the person in kilograms.

There is a queue of people waiting to board a bus. However, the bus has a weight limit of 1000 kilograms, so there may be some people who cannot board.

Write a solution to find the person\_name of the last person that can fit on the bus without exceeding the weight limit. The test cases are generated such that the first person does not exceed the weight limit.

The result format is in the following example.

## Example 1:

## Input:

Queue table:

person_id	person_name	weight	turn
5	Alice	250	1
4	Bob	175	5
3	Alex	350	2
6	John Cena	400	3
1	Winston	500	6
2	Marie	200	4

## Output:

person_name
John Cena

**Explanation:** The following table is ordered by the turn for simplicity.

Turn	ID	Name	Weight	Total Weight
1	5	Alice	250	250
2	3	Alex	350	600
3	6	John Cena	400	1000
4	2	Marie	200	1200
5	4	Bob	175	—
6	1	Winston	500	—

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Yes No

Discussion (18)

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MySQL Auto

```
1 # Write your MySQL query statement below
2 SELECT q1.person_name
3 FROM Queue q1
4 CROSS JOIN Queue q2
5 ON q1.turn >= q2.turn
6 GROUP BY q1.turn
7 HAVING SUM(q2.weight) <= 1000
8 ORDER BY SUM(q2.weight) DESC
9 LIMIT 1
```

Ln 9, Col 8

Console ^

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