Problem 3140: Consecutive Available Seats II

Problem Information

Difficulty: Medium
Acceptance Rate: 55.38%
Paid Only: Yes
Tags: Database

Problem Description

Table: `Cinema`

+-------------+------+ | Column Name | Type | +-------------+------+ | seat_id | int | | free | bool | +-------------+------+ seat_id is an auto-increment column for this table. Each row of this table indicates whether the ith seat is free or not. 1 means free while 0 means occupied.

Write a solution to find the **length** of **longest consecutive sequence** of **available** seats in the cinema.

Note:

* There will always be **at most** **one** longest consecutive sequence. * If there are **multiple** consecutive sequences with the **same length** , include all of them in the output.

Return _the result table**ordered** by_ `first_seat_id` _**in ascending order**_.

The result format is in the following example.

Example:

Input:

Cinema table:

+---------+------+ | seat_id | free | +---------+------+ | 1 | 1 | | 2 | 0 | | 3 | 1 | | 4 | 1 | | 5 | 1 | +---------+------+

Output:

+----------------+---------------+----------------------+ | first_seat_id | last_seat_id | consecutive_seats_len | +----------------+---------------+----------------------+ | 3 | 5 | 3 | +----------------+---------------+----------------------+

Explanation:

* Longest consecutive sequence of available seats starts from seat 3 and ends at seat 5 with a length of 3.

Output table is ordered by first_seat_id in ascending order.

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
```