# 2494. Merge Overlapping Events in the Same Hall <span>Premium</span>

<span>Hard</span> 🏷️ Topics

SQL Schema > Pandas Schema >

Table: `HallEvents`

```
+--------------+--------+
| Column Name  | Type   |
+--------------+--------+
| hall_id      | int    |
| start_day    | date   |
| end_day      | date   |
+--------------+--------+
This table may contain duplicates rows.
Each row of this table indicates the start day and end day of an event and the hall in which the event is held.
```

Write a solution to merge all the overlapping events that are held **in the same hall**. Two events overlap if they have **at least one day** in common.

Return the result table **in any order**.

The result format is in the following example.

**Example 1:**

**Input:**
HallEvents table:
```
+---------+------------+------------+
| hall_id | start_day  | end_day    |
+---------+------------+------------+
| 1       | 2023-01-13 | 2023-01-14 |
| 1       | 2023-01-14 | 2023-01-17 |
| 1       | 2023-01-18 | 2023-01-25 |
| 2       | 2022-12-09 | 2022-12-23 |
| 2       | 2022-12-13 | 2022-12-17 |
| 3       | 2022-12-01 | 2023-01-30 |
+---------+------------+------------+
```

**Output:**
```
+---------+------------+------------+
| hall_id | start_day  | end_day    |
+---------+------------+------------+
| 1       | 2023-01-13 | 2023-01-17 |
| 1       | 2023-01-18 | 2023-01-25 |
| 2       | 2022-12-09 | 2022-12-23 |
| 3       | 2022-12-01 | 2023-01-30 |
+---------+------------+------------+
```

**Explanation:** There are three halls.
Hall 1:
- The two events ["2023-01-13", "2023-01-14"] and ["2023-01-14", "2023-01-17"] overlap. We merge them in one event ["2023-01-13", "2023-01-17"].
- The event ["2023-01-18", "2023-01-25"] does not overlap with any other event, so we leave it as it is.
Hall 2:
- The two events ["2022-12-09", "2022-12-23"] and ["2022-12-13", "2022-12-17"] overlap. We merge them in one event ["2022-12-09", "2022-12-23"].
Hall 3:
- The hall has only one event, so we return it. Note that we only consider the events of each hall separately.

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

<span>Yes</span> <span>No</span>

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<span>Database</span>

💬 Discussion (4)