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1285. Find the Start and End Number of Continuous Ranges `Premium`

Solved ✓

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SQL Schema > Pandas Schema >

Table: `Logs`

```
+---------------+---------+
| Column Name   | Type    |
+---------------+---------+
| log_id        | int     |
+---------------+---------+
log_id is the column of unique values for this table.
Each row of this table contains the ID in a log Table.
```

Write a solution to find the start and end number of continuous ranges in the table `Logs`.

Return the result table ordered by `start_id`.

The result format is in the following example.

Example 1:

Input:
Logs table:
```
+---------+
| log_id  |
+---------+
| 1       |
| 2       |
| 3       |
| 7       |
| 8       |
| 10      |
+---------+
```

Output:
```
+----------+----------+
| start_id | end_id   |
+----------+----------+
| 1        | 3        |
| 7        | 8        |
| 10       | 10       |
+----------+----------+
```

Explanation:
The result table should contain all ranges in table Logs.
From 1 to 3 is contained in the table.
From 4 to 6 is missing in the table
From 7 to 8 is contained in the table.
Number 9 is missing from the table.
Number 10 is contained in the table.

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

Yes | No

Accepted **48,458**/59.1K | Acceptance Rate **82.0**%

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</> Code

Pandas ⌄ • Auto

```python
1  import pandas as pd
2
3  def find_continuous_ranges(logs: pd.DataFrame) -> pd.DataFrame:
4
5      start = logs.loc[0, 'log_id']
6      end = logs.loc[0, 'log_id'] - 1
7
8      res = []
9
10     for index, row in logs.iterrows():
11         if row['log_id'] == end + 1:
12             end = row['log_id']
13         else:
14             res.append([start, end])
15             start = row['log_id']
16             end = row['log_id']
17
18     res.append([start, end])
19
20     return pd.DataFrame(res, columns=['start_id', 'end_id'])
21
```

☁ Saved   Ln 16, Col 32

☑ Testcase | >_ Test Result

```
| 1        | 3        |
| 7        | 8        |
| 10       | 10       |
```

Expected

```
| start_id | end_id |
| -------- | ------ |
| 1        | 3      |
| 7        | 8      |
| 10       | 10     |
```

⌄ Contribute a testcase