Prepare > SQL > Advanced Join > SQL Project Planning

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Problem

You are given a table, Projects, containing three columns: Task_ID, Start_Date and End_Date. It is guaranteed that the difference between the End_Date and the Start_Date is equal to 1 day for each row in the table.

Column	Type
Task_ID	Integer
Start_Date	Date
End_Date	Date

If the End_Date of the tasks are consecutive, then they are part of the same project. Samantha is interested in finding the total number of different projects completed.

Write a query to output the start and end dates of projects listed by the number of days it took to complete the project in ascending order. If there is more than one project that have the same number of completion days, then order by the start date of the project.

Sample Input

Task_ID	Start_Date	End_Date
1	2015-10-01	2015-10-02
2	2015-10-02	2015-10-03
3	2015-10-03	2015-10-04
4	2015-10-13	2015-10-14
5	2015-10-14	2015-10-15

MySQL ⌄   ⚙

```
1   Select Start_Date, MIN(End_Date)
2   From
3       (Select b.Start_Date
4       From Projects as a
5       RIGHT Join Projects as b
6       ON b.Start_Date = a.End_Date
7       WHERE a.Start_Date IS NULL
8       ) sd,
9       (Select a.End_Date
10      From Projects as a
11      Left Join Projects as b
12      ON b.Start_Date = a.End_Date
13      WHERE b.End_Date IS NULL
14      ) ed
15  Where Start_Date < End_Date
16  GROUP BY Start_Date
17  ORDER BY datediff(MIN(End_Date), Start_Date),
    Start_Date
```

Line: 17 Col: 57

⬆ Upload Code as File   Run Code   Submit Code

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

⊘ **Sample Test case 0**

Your Output (stdout)

```
1   2015-10-15
    2015-10-16
2   2015-10-17
    2015-10-18
3   2015-10-19
    2015-10-20
4   2015-10-21
    2015-10-22
5   2015-11-01
    2015-11-02
6   2015-11-17
```