

SQL Project Planning ★

44/58 challenges solved

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Problem

Submissions

Leaderboard

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
<code>Task_ID</code>	<code>Integer</code>
<code>Start_Date</code>	<code>Date</code>
<code>End_Date</code>	<code>Date</code>

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

<code>Task_ID</code>	<code>Start_Date</code>	<code>End_Date</code>
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
6	2015-10-28	2015-10-29
7	2015-10-30	2015-10-31

Sample Output

2015-10-28 2015-10-29
2015-10-30 2015-10-31
2015-10-13 2015-10-15
2015-10-01 2015-10-04

Explanation

The example describes following four projects:

- Project 1: Tasks 1, 2 and 3 are completed on consecutive days, so these are part of the project. Thus start date of project is 2015-10-01 and end date is 2015-10-04, so it took 3 days to complete the project.
- Project 2: Tasks 4 and 5 are completed on consecutive days, so these are part of the project. Thus, the start date of project is 2015-10-13 and end date is 2015-10-15, so it took 2 days to complete the project.
- Project 3: Only task 6 is part of the project. Thus, the start date of project is 2015-10-28 and end date is 2015-10-29, so it took 1 day to complete the project.
- Project 4: Only task 7 is part of the project. Thus, the start date of project is 2015-10-30 and end date is 2015-10-31, so it took 1 day to complete the project.

MS SQL Server



```
2 ▾ /*
3  Enter your query here.
4  Please append a semicolon ";" at the end of the query and enter your query in a single line to
5  avoid error.
6  */
7  with tabella as (
8
9      select start_date,end_date
10
11  from (
12
13  select  t.end_date,t.start_date
14          from  projects as t
15          left  join projects as t2
16          on t.end_date=t2.start_date
17          where t2.start_date is null
18
19  ) as t
20
21
22      union all
23      select t2.start_date,t.end_date
24          from tabella as t
25  inner join projects as t2
26  on t.start_date=t2.end_date
27
28
29  )
30
31
32
33  select start_date,end_date
```

```
34 from
35
36 (
37 select min(start_date) as start_date, end_date
38 from tabella
39
40 group by end_date
41
42
43
44
45 ) as t
46
47 order by DATEDIFF ( day , start_date , end_date ) , start_date
48
49
50
51
52
53
54
55
```

Line: 47 Col: 54

[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	2015-11-18
7	2015-10-11	2015-10-13
8	2015-11-11	2015-11-13
9	2015-10-01	2015-10-05
10	2015-11-04	2015-11-08
11	2015-10-25	2015-10-31

