

## Problem

Julia conducted a 15 days of learning SQL contest.

The start date of the contest was March 01, 2016

and the end date was March 15, 2016.

## Submissions

Write a query to print total number of unique hackers who made at least 1 submission each day (starting on the first day of the contest), and find the hacker\_id and name of the hacker who made maximum number of submissions each day. If more than one such hacker has a maximum number of submissions, print the lowest hacker\_id. The query should print this information for each day of the contest, sorted by the date.

## Input Format

The following tables hold contest data:

- Hackers: The hacker\_id is the id of the hacker, and name is the name of the hacker.

Column	Type
hacker_id	Integer
name	String

## Discussions

- Submissions: The submission\_date is the date of the submission, submission\_id is the id of the submission, hacker\_id is the id of the hacker who made the submission, and score is the score of the submission.

Column	Type
submission_date	Date
submission_id	Integer
hacker_id	Integer
score	Integer

## Sample Input

For the following sample input, assume that the end date of the contest was March 06, 2016.

Hackers Table:

hacker_id	name
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```

2  with MaxSubEachDay as (
3      select submission_date,
4              hacker_id,
5              RANK() OVER(partition by
6 submission_date order by SubCount desc,
7 hacker_id) as Rn
8  FROM
9      (select submission_date, hacker_id,
10 count(1) as SubCount
11 from submissions
12 group by submission_date, hacker_id
13 ) subQuery
14 ), DayWiseRank as (
15 select submission_date,
16         hacker_id,
17         DENSE_RANK() OVER(order by
18 submission_date) as dayRn
19 from submissions
20 ), HackerCntTillDate as (
21 select outtr.submission_date,
22        outtr.hacker_id,
23        case when outtr.submission_date='2016-
24 03-01' then 1
25        else 1+(select count(distinct
26 a.submission_date)
27 from submissions a where a.hacker_id =
28 outtr.hacker_id and
29 a.submission_date<outtr.submission_date)
30 end as PrevCnt,
31 outtr.dayRn
32 from DayWiseRank outtr
33 ), HackerSubEachDay as (
34 select submission_date,
35        count(distinct hacker_id) HackerCnt
36 from HackerCntTillDate
37 where PrevCnt = dayRn
38 group by submission_date
39 )
40 select HackerSubEachDay.submission_date,
41        HackerSubEachDay.HackerCnt,
42        MaxSubEachDay.hacker_id,
43        Hackers.name
44 from HackerSubEachDay
45 inner join MaxSubEachDay
46 on HackerSubEachDay.submission_date =
47 MaxSubEachDay.submission_date
48 inner join Hackers
49 on Hackers.hacker_id = MaxSubEachDay.hacker_id
50 where MaxSubEachDay.Rn=1

```

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