# 15 Days of Learning SQL

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*.

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.

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**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 |

- *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 |
|---|---|
| 15758 | Rose |
| 20703 | Angela |
| 36396 | Frank |
| 38289 | Patrick |
| 44065 | Lisa |
| 53473 | Kimberly |
| 62529 | Bonnie |
| 79722 | Michael |

*Submissions* Table:

| submission_date | submission_id | hacker_id | score |
|---|---|---|---|
| 2016-03-01 | 8494 | 20703 | 0 |
| 2016-03-01 | 22403 | 53473 | 15 |
| 2016-03-01 | 23965 | 79722 | 60 |
| 2016-03-01 | 30173 | 36396 | 70 |
| 2016-03-02 | 34928 | 20703 | 0 |
| 2016-03-02 | 38740 | 15758 | 60 |
| 2016-03-02 | 42769 | 79722 | 25 |
| 2016-03-02 | 44364 | 79722 | 60 |
| 2016-03-03 | 45440 | 20703 | 0 |
| 2016-03-03 | 49050 | 36396 | 70 |
| 2016-03-03 | 50273 | 79722 | 5 |
| 2016-03-04 | 50344 | 20703 | 0 |
| 2016-03-04 | 51360 | 44065 | 90 |
| 2016-03-04 | 54404 | 53473 | 65 |
| 2016-03-04 | 61533 | 79722 | 45 |
| 2016-03-05 | 72852 | 20703 | 0 |
| 2016-03-05 | 74546 | 38289 | 0 |
| 2016-03-05 | 76487 | 62529 | 0 |
| 2016-03-05 | 82439 | 36396 | 10 |
| 2016-03-05 | 90006 | 36396 | 40 |
| 2016-03-06 | 90404 | 20703 | 0 |

**Sample Output**

```
2016-03-01 4 20703 Angela
2016-03-02 2 79722 Michael
2016-03-03 2 20703 Angela
2016-03-04 2 20703 Angela
2016-03-05 1 36396 Frank
2016-03-06 1 20703 Angela
```

**Explanation**

On *March 01, 2016* hackers $20703$, $36396$, $53473$, and $79722$ made submissions. There are $4$ unique hackers who made at least one submission each day. As each hacker made one submission, $20703$ is considered to be the hacker who made maximum number of submissions on this day. The name of the hacker is *Angela*.

On *March 02, 2016* hackers $15758$, $20703$, and $79722$ made submissions. Now $20703$ and $79722$ were the only ones to submit every day, so there are $2$ unique hackers who made at least one submission each day. $79722$ made $2$ submissions, and name of the hacker is *Michael*.

On *March 03, 2016* hackers $20703$, $36396$, and $79722$ made submissions. Now $20703$ and $79722$ were the only ones , so there are $2$ unique hackers who made at least one submission each day. As each hacker made one submission so $20703$ is considered to be the hacker who made maximum number of submissions on this day. The name of the hacker is *Angela*.

On *March 04, 2016* hackers $20703$, $44065$, $53473$, and $79722$ made submissions. Now $20703$ and $79722$ only submitted each day, so there are $2$ unique hackers who made at least one submission each day. As each hacker made one submission so $20703$ is considered to be the hacker who made maximum number

of submissions on this day. The name of the hacker is *Angela*.

On *March 05, 2016* hackers $20703$, $36396$, $38289$ and $62529$ made submissions. Now $20703$ only submitted each day, so there is only $1$ unique hacker who made at least one submission each day. $36396$ made $2$ submissions and name of the hacker is *Frank*.

On *March 06, 2016* only $20703$ made submission, so there is only $1$ unique hacker who made at least one submission each day. $20703$ made $1$ submission and name of the hacker is *Angela*.