

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.

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
```

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*.