Contest Leaderboard

You did such a great job helping Julia with her last coding contest challenge that she wants you to work on this one, too!

The total score of a hacker is the sum of their maximum scores for all of the challenges. Write a query to print the *hacker_id*, *name*, and total score of the hackers ordered by the descending score. If more than one hacker achieved the same total score, then sort the result by ascending *hacker_id*. Exclude all hackers with a total score of 0 from your result.

Input Format

The following tables contain 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_id* is the id of the submission, *hacker_id* is the id of the hacker who made the submission, *challenge_id* is the id of the challenge for which the submission belongs to, and *score* is the score of the submission.

Column	Type
submission_id	Integer
hacker_id	Integer
challenge_id	Integer
score	Integer

Sample Input

Hackers Table:

hacker_id	name
4071	Rose
4806	Angela
26071	Frank
49438	Patrick
74842	Lisa
80305	Kimberly
84072	Bonnie
87868	Michael
92118	Todd
95895	Joe

Submissions Table:

submission_id	hacker_id	challenge_id	score
67194	74842	63132	76
64479	74842	19797	98
40742	26071	49593	20
17513	4806	49593	32
69846	80305	19797	19
41002	26071	89343	36
52826	49438	49593	9
31093	26071	19797	2
81614	84072	49593	100
44829	26071	89343	17
75147	80305	49593	48
14115	4806	49593	76
6943	4071	19797	95
12855	4806	25917	13
73343	80305	49593	42
84264	84072	63132	0
9951	4071	49593	43
45104	49438	25917	34
53795	74842	19797	5
26363	26071	19797	29
10063	4071	49593	96

Sample Output

```
4071 Rose 191
74842 Lisa 174
84072 Bonnie 100
4806 Angela 89
26071 Frank 85
80305 Kimberly 67
49438 Patrick 43
```

Explanation

Hacker *4071* submitted solutions for challenges *19797* and *49593*, so the total score
$= 95 + max(43, 96) = 191$.

Hacker *74842* submitted solutions for challenges *19797* and *63132*, so the total score
$= max(98, 5) + 76 = 174$

Hacker *84072* submitted solutions for challenges *49593* and *63132*, so the total score $= 100 + 0 = 100$.

The total scors for hackers *4806, 26071, 80305*, and *49438* can be similarly calculated.

```sql
-- InCorrect
Select
h.hacker_id
, h.name
, SUM(s.score) as score

From Hackers AS h
Join Submissions AS s
On h.hacker_id = s.hacker_id
Group By h.hacker_id, h.name

Having score > 0

Order By score DESC, h.hacker_id;


-- Correct
select h.hacker_id, name, sum(my_score) as total_score
from
hackers as h inner join
/* find max_score*/
(select s.hacker_id,  max(s.score) as my_score from submissions as s group by s.challenge_id, s.hacker_id) max_score

on h.hacker_id=max_score.hacker_id group by h.hacker_id, name

/* don't accept hackers with total_score=0 */
having total_score > 0

/* finally order as required */
order by total_score desc, h.hacker_id ;
```