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# Ollivander's Inventory



Problem

Submissions

Leaderboard

Discussions

Harry Potter and his friends are at Ollivander's with Ron, finally replacing Charlie's old broken wand.

Hermione decides the best way to choose is by determining the minimum number of gold galleons needed to buy each *non-evil* wand of high power and age. Write a query to print the *id*, *age*, *coins\_needed*, and *power* of the wands that Ron's interested in, sorted in order of descending *power*. If more than one wand has same power, sort the result in order of descending *age*.

#### **Input Format**

The following tables contain data on the wands in Ollivander's inventory:

• *Wands:* The *id* is the id of the wand, *code* is the code of the wand, *coins\_needed* is the total number of gold galleons needed to buy the wand, and *power* denotes the quality of the wand (the higher the power, the better the wand is).

Column	Туре
id	Integer
code	Integer
coins_needed	Integer
power	Integer

Wands\_Property: The code is the code of the wand, age is the age of the wand, and is\_evil denotes whether the wand is good for the dark arts. If the value of is\_evil is 0, it means that the wand is not evil. The mapping between code and age is one-one, meaning that if there are two pairs, (code1, age1) and (code2, age2), then code1 ≠ code2 and age1 ≠ age2.

Column	Туре
code	Integer
age	Integer
is_evil	Integer

Sample Input

Wands Table:

id	code	coins_needed	power
1	4	3688	8
2	3	9365	3
3	3	7187	10
4	3	734	8
5	1	6020	2
6	2	6773	7
7	3	9873	9
8	3	7721	7
9	1	1647	10
10	4	504	5
11	2	7587	5
12	5	9897	10
13	3	4651	8
14	2	5408	1
15	2	6018	7
16	4	7710	5
17	2	8798	7
18	2	3312	3
19	4	7651	6
20	5	5689	3

## Wands\_Property Table:

code	age	is_evil
1	45	0
2	40	0
3	4	1
4	20	0
5	17	0

#### Sample Output

### Explanation

The data for wands of age 45 (code 1):

id	age	coins_needed	power
5	45	6020	2
9	45	1647	10

- The minimum number of galleons needed for wand(age = 45, power = 2) = 6020
- The minimum number of galleons needed for wand(age = 45, power = 10) = 1647

The data for wands of age 40 (code 2):

id	age	coins_needed	power
14	40	5408	1
18	40	3312	3
11	40	7587	5
15	40	6018	7
17	40	8798	7
6	40	6773	7

- The minimum number of galleons needed for wand(age = 40, power = 1) = 5408
- The minimum number of galleons needed for wand(age=40,power=3)=3312
- The minimum number of galleons needed for wand(age = 40, power = 5) = 7587
- The minimum number of galleons needed for wand(age = 40, power = 7) = 6018

The data for wands of age 20 (code 4):

id	age	coins_needed	power
10	20	504	5
16	20	7710	5
19	20	7651	6
1	20	3688	8

- The minimum number of galleons needed for wand(age = 20, power = 5) = 504
- The minimum number of galleons needed for wand(age = 20, power = 6) = 7651
- The minimum number of galleons needed for wand(age = 20, power = 8) = 3688

The data for wands of age 17 (code 5):

id	age	coins_needed	power
20	17	5689	3
12	17	9897	10

- The minimum number of galleons needed for wand(age = 17, power = 3) = 5689
- The minimum number of galleons needed for wand(age = 17, power = 10) = 9897

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Submissions: 9
Max Score: 30
Difficulty: Medium

Rate This Challenge:
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```
MySQL
      SELECT w.id, p.age, w.coins_needed, w.power FROM Wands as w
      JOIN wands_property as p ON w.code = p.code
   2
      WHERE w.coins_needed = (SELECT MIN(coins_needed) FROM wands w2
   3
   4
                               INNER JOIN wands_property p2 ON w2.code = p2.code
   5
                               WHERE p2.is_evil = 0 AND p.age = p2.age AND w.power = w2.power)
   6
      ORDER BY w.power DESC, p.age DESC;
                                                                                                 Line: 6 Col: 35
<u>♣ Upload Code as File</u>
                                                                                                 Submit Code
                                                                                    Run Code
```

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