

## OLLIVANDER'S INVENTORY

### TASK:

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	Type
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, (*code*<sub>1</sub>, *age*<sub>1</sub>) and (*code*<sub>2</sub>, *age*<sub>2</sub>), then *code*<sub>1</sub> ≠ *code*<sub>2</sub> and *age*<sub>1</sub> ≠ *age*<sub>2</sub>.

Column	Type
code	Integer
age	Integer
is_evil	Integer

## SOLUTION:

```
SELECT
    w.id, wp.age, w.coins_needed, w.power
FROM
    Wands w
    JOIN Wands_Property wp ON w.code = wp.code
WHERE wp.is_evil = 0
    AND w.coins_needed = (
        SELECT MIN(w2.coins_needed)
        FROM Wands w2
        JOIN Wands_Property wp2 ON w2.code = wp2.code
        WHERE wp2.is_evil = 0
            AND wp2.age = wp.age
            AND w2.power = w.power
    )
ORDER BY w.power DESC, wp.age DESC;
```

## SUBMISSION:

### Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

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**Test case 0**

Compiler Message

Success

Input (stdin)

1	INPUT
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Expected Output

1	1038 496 4789 10
2	1130 494 9439 10
3	1315 492 4126 10
4	9 491 7345 10
5	858 483 4352 10
6	1164 481 9831 10

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