Day 25 :

1 . Query the two cities in **STATION** with the shortest and longest CITY names, as well as their respective lengths (i.e.: number of characters in the name). If there is more than one smallest or largest city, choose the one that comes first when ordered alphabetically.

Select Top 1 station.CITY , len(station.CITY) from station order by len(station.city) , station.city

Select Top 1 station.CITY , len(station.CITY) from station order by len(station.city) desc, station.city

2. 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.

SELECT w.id, mc.age, mc.min\_coins, mc.power   
FROM (  
    SELECT w.code, wp.age, w.power, MIN(w.coins\_needed) min\_coins  
    FROM wands w  
    JOIN wands\_property wp ON w.code = wp.code  
    WHERE wp.is\_evil = 0  
    GROUP BY w.power, wp.age, w.code  
) AS mc   
JOIN wands w ON mc.min\_coins = w.coins\_needed AND mc.power = w.power AND mc.code = w.code  
ORDER BY mc.power DESC, mc.age DESC;