PCRS   Quests   Code Editor ▾   Logged in as *zhan4662*   ⚙

Prep 6 - Part 1 of 2

Subqueries

In the questions below, you'll get some practice using subqueries in SQL. Though there are several different ways of solving these questions, we strongly encourage you to use subqueries and the keywords SOME, ALL, IN, and EXISTS to solidify your learning this week.

Multilingual ✔

country(<u>code</u>, name, continent, population)
countrylanguage(<u>countrycode</u>, <u>countrylanguage</u>, isofficial, percentage)

Find the countries where more languages are spoken than in the country with code 'MEX'.

Report the code of the country (as attribute 'code') and the number of languages spoken in the country (as attribute 'numlanguages'). Order does not matter.

Hint: Find the number of languages spoken in 'MEX' and use that subquery in a HAVING clause. And remember that you must use single quotes on your strings in SQL.

```
1  SELECT countrycode AS code, count(DISTINCT countrylanguage) AS numlanguages
2  FROM countrylanguage
3  GROUP BY countrycode
4  HAVING count(DISTINCT countrylanguage) > ALL (SELECT count(DISTINCT countrylanguage)
5      FROM countrylanguage
6      WHERE countrycode = 'MEX');
```

History   Submit

✔ Your submission is correct!

Submitted after the deadline!

✔ Test Case Passed

Expected Result is Hidden

Actual

code	numlanguages
AGO	9
AUS	8
AUT	8
BEN	7
BGD	7
CAN	12

CHN	12
CMR	8
COD	10
CZE	8
DNK	7
ETH	7
GIN	7
IDN	9
IND	12
IRN	10
ITA	8
KEN	10
KGZ	7
LBR	8
MMR	8
MOZ	10
NAM	8
NGA	10
NPL	7
PAK	8
PHL	10
RUS	12
SDN	10
SLE	8
TCD	8
TGO	8
TZA	11
UGA	10
UKR	7
USA	12
VNM	9
ZAF	11

English on Top ✔

country(code, name, continent, population)
countrylanguage(countrycode, countrylanguage, isofficial, percentage)

Find all countries where 'English' is the most commonly spoken language (based on percentage). English doesn't have to surpass all other languages in the country; if it is tied for first place, that is sufficient. Note that, for some countries, every percentage in the datase is 0, so English will satisfy the condition in a not very meaningful way. Don't do anything to exclude those countries.

Report the country names only (as attribute **'country'**); do not include any duplicates.

Hint: For each country, find the percentage for English and check whether it's >= the percentage for *all* the other languages spoken there.

```
1  SELECT DISTINCT name AS country
2  FROM (country JOIN countrylanguage ON code = countrycode) C1
3  WHERE countrylanguage = 'English'
4         AND percentage >= ALL (SELECT percentage
5             FROM (country JOIN countrylanguage ON code = countrycode) C2
6             WHERE C1.name = C2.name AND countrylanguage <> 'English'
7         );
```

History   Submit

✔ Your submission is correct!

Submitted after the deadline!

✔ Test Case Passed

Expected Result is Hidden

Actual

country
Australia
Bermuda
Tokelau
United States
Saint Helena
Anguilla
Belize
Turks and Caicos Islands
Cayman Islands
United Kingdom
Virgin Islands, U.S.
Gibraltar
Niue
Cocos (Keeling) Islands
Guam
Ireland
Montserrat
Falkland Islands

New Zealand

Virgin Islands, British

Norfolk Island

Trinidad and Tobago

Cook Islands

Christmas Island

Canada

Uncommon Languages

-/1

country(code, name, continent, population)
countrylanguage(countrycode, countrylanguage, isofficial, percentage)

This question is currently unavailable.