Prep 4 - Part 1 of 1

So far in this course, we've covered the mathematical model behind relational databases, and you've become skilled at writing queries in Relational Algebra. In the next few weeks, we will study SQL, a special-purpose programming language used to interact with real-world databases.

To get started, please read about the basics of SQL from the **SQL Basics** link on the **Lectures** page on Quercus.

In this Lecture Prep, you'll practice writing simple queries in SQL. The main purpose is not to test your ability to write queries (these questions are simpler than many of the RA exercises you've completed), but instead to get you comfortable with the *syntax* of SQL. The PCRS understands SQL syntax, so simply enter valid SQL queries to solve each problem.

Schema

The schema used in this Prep consists of two relations.

- country(code, name, continent, population): each tuple represents a country with a three-letter code, a name, the continent it is on, and its population.

- countrylanguage(countrycode, countrylanguage, isofficial, percentage): 'countrycode' refers to the code attribute of a country, 'countrylanguage' is a language spoken in that country, 'isofficial' is a boolean representing whether or not 'countrylanguage' is the official language of the country, and 'percentage' is the percentage of the country's population that speaks that language.

There is also a foreign key constraint countrylanguage[countrycode] ⊆ country[code], although it is not shown in the schema below.

The data used in this prep is real data from Statistics Finland.

Getting ready

The queries in this prep are intended to be solved using only what you are taught in the video and the prep itself. You do not need to look up any additional features of SQL.

Important!! None of the queries require joining more than two tables. Larger queries may cause serious performance issues. (For example, consider how many rows are in the result of joining 4 tables even if they have only 100 rows each.)

Canada Code   ✔

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

Write a SQL query to report the code of the country named 'Canada'. Don't forget the semicolon at the end of your SQL statement, and that SQL requires single quotes on strings.

```
1  SELECT code
2  FROM country
3  WHERE name = 'Canada'
```

History   Submit

✔ Your submission is correct!

Submitted after the deadline!

✔ Test Case Passed

Expected Result is Hidden

Actual

code
CAN

French Countries ✔

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

Report the code of every country where 'French' is an official language.

```
1  SELECT countrycode
2  FROM countrylanguage
3  WHERE countrylanguage =  'French' and isofficial = True
```

History   Submit

✔ Your submission is correct!

Submitted after the deadline!

✔ Test Case Passed

Expected Result is Hidden

Actual

countrycode
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FRA
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BEL
BDI
GLP
HTI
CAN
MDG
MTQ
MYT

PYF
RWA
CHE
NCL
SYC
VUT
LUX

German Country Names ✔

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

Report the name and continent (in that order) of all countries where 'German' is spoken, not necessarily as the official language.

```sql
1  SELECT name, continent
2  FROM country, countrylanguage
3  WHERE code = countrycode and countrylanguage = 'German'
```

History   Submit

✔ Your submission is correct!

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✔ Test Case Passed

Expected Result is Hidden

Actual

name	continent
Austria	Europe
Liechtenstein	Europe
Germany	Europe
Switzerland	Europe
Brazil	South America
Poland	Europe
Hungary	Europe
Kazakstan	Asia
Paraguay	South America
Romania	Europe
Denmark	Europe

United States	North America
Belgium	Europe
Italy	Europe
Canada	North America
Luxembourg	Europe
Czech Republic	Europe
Australia	Oceania
Namibia	Africa

European Populations ✔

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

Report the name and population of each country in 'Europe', ordered by their population, with the most-populated country appearing first.

```
1  SELECT name, population
2  FROM country
3  WHERE continent = 'Europe'
4  ORDER BY population DESC
```

History   Submit

✔ Your submission is correct!

Submitted after the deadline!

✔ Test Case Passed

Expected Result is Hidden

Actual

name	population
Russian Federation	146934000
Germany	82164700
United Kingdom	59623400
France	59225700
Italy	57680000
Ukraine	50456000
Spain	39441700
Poland	38653600
Romania	22455500
Netherlands	15864000

Yugoslavia	10640000
Greece	10545700
Czech Republic	10278100
Belgium	10239000
Belarus	10236000
Hungary	10043200
Portugal	9997600
Sweden	8861400
Bulgaria	8190900
Austria	8091800
Switzerland	7160400
Slovakia	5398700
Denmark	5330000
Finland	5171300
Norway	4478500
Croatia	4473000
Moldova	4380000
Bosnia and Herzegovina	3972000
Ireland	3775100
Lithuania	3698500
Albania	3401200
Latvia	2424200
Macedonia	2024000
Slovenia	1987800
Estonia	1439200
Luxembourg	435700
Malta	380200
Iceland	279000
Andorra	78000
Faroe Islands	43000
Monaco	34000
Liechtenstein	32300
San Marino	27000
Gibraltar	25000
Svalbard and Jan Mayen	3200
Holy See (Vatican City State)	1000

Bilingual   ✔

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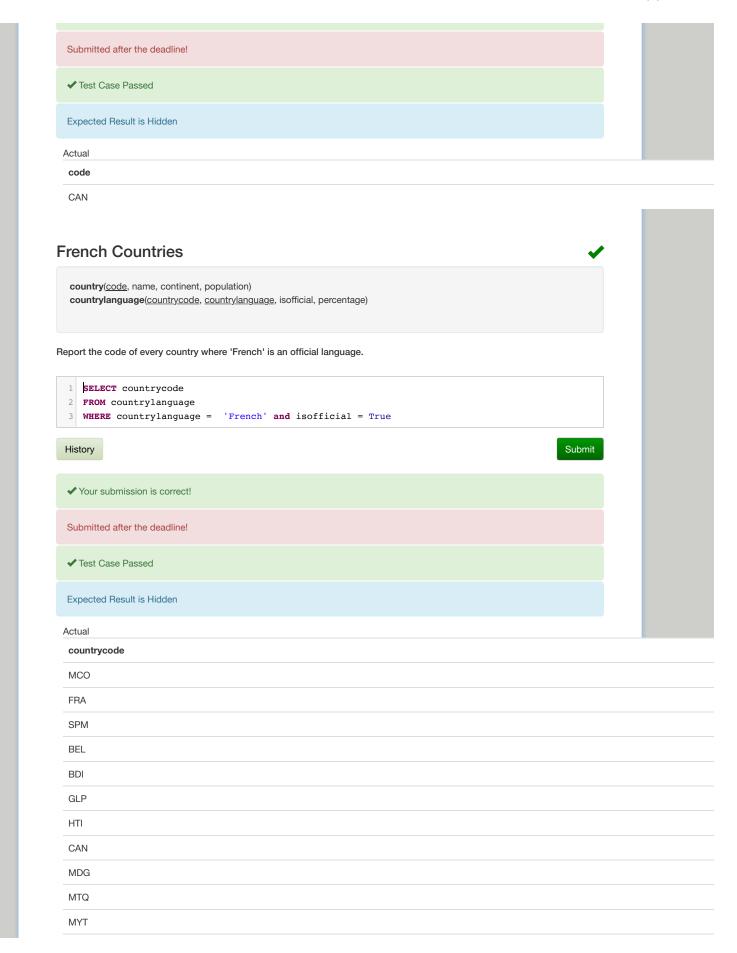countrylanguage(countrycode, countrylanguage, isofficial, percentage)

Report the code of every country where at least two different languages are spoken. Rename the column to be named "bilingualcode". We use the keyword "as" to rename a column. For example:

```
select code as a, name as b
from country;
```

We encourage you to use a self-join to do this question, but in order to do this you'll need to rename a table. The table-renaming syntax is simply to include a new table name after the old one. For example (this one is not a self-join):

```
select *
from country c, language l
where c.code = l.countrycode;
```

Note that it is easy to confuse this notation with just a series of Cartesian products; pay attention to commas!

Do not try to eliminate duplicates from your results.

```
1  SELECT first.countrycode as bilingualcode
2  FROM countrylanguage first, countrylanguage second
3  WHERE first.countrycode = second.countrycode and first.countrylanguage !=
   second.countrylanguage
```

History   Submit

✔ Your submission is correct!

Submitted after the deadline!

✔ Test Case Passed

Expected Result is Hidden

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Distinct Bilingual ✔

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

Report the code of every country where at least two different languages are spoken. Rename the column to be named "bilingualcode".

For this question, **eliminate duplicates** from your results by using "select distinct" instead of just "select".

```
1  SELECT DISTINCT first.countrycode as bilingualcode
2  FROM countrylanguage first, countrylanguage second
3  WHERE first.countrycode = second.countrycode and first.countrylanguage !=
   second.countrylanguage
```

[History]   [Submit]

✔ Your submission is correct!

Submitted after the deadline!

✔ Test Case Passed

Expected Result is Hidden

Actual

bilingualcode
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