Bigger than Russia

1.

List each country name where the population is larger than that of 'Russia'.

`world(name, continent, area, population, gdp)`

Correct answer

name
Bangladesh
Brazil
China
India
Indonesia
Nigeria
Pakistan
United States

Richer than UK

2.

Show the countries in Europe with a per capita GDP greater than 'United Kingdom'.
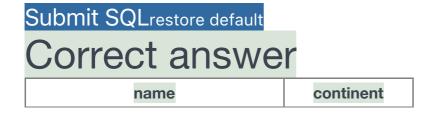
Per Capita GDP

Correct answer

name
Andorra
Austria
Belgium
Denmark
Finland
France
Germany
Iceland
Ireland
Liechtenstein
Luxembourg
Monaco
Netherlands
Norway
San Marino
Sweden
Switzerland

Neighbours of Argentina and Australia

3.

List the name and continent of countries in the continents containing either Argentina or Australia. Order by name of the country.

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Correct answer

name	continent

Argentina	South America
Australia	Oceania
Bolivia	South America
Brazil	South America
Chile	South America
Colombia	South America
Ecuador	South America
Fiji	Oceania
Guyana	South America
Kiribati	Oceania
Marshall Islands	Oceania
Micronesia, Federated States of	Oceania
Nauru	Oceania
New Zealand	Oceania
Palau	Oceania
Papua New Guinea	Oceania
Paraguay	South America
Peru	South America
Saint Vincent and the Grenadines	South America
Samoa	Oceania
Solomon Islands	Oceania
Suriname	South America
Tonga	Oceania
Tuvalu	Oceania
Uruguay	South America
Vanuatu	Oceania
Venezuela	South America

Between Canada and Poland

4.

Which country has a population that is more than United

Kingdom but less than Germany? Show the name and the population.

Correct answer

name	population
Congo, Democratic Republic of	69360000
France	65906000
Iran	77552000
Thailand	64456700
Turkey	76667864

Percentages of Germany

5.

Germany (population 80 million) has the largest population of the countries in Europe. Austria (population 8.5 million) has 11% of the population of Germany.

Show the name and the population of each country in Europe. Show the population as a percentage of the population of Germany.

The format should be *Name, Percentage* for example:

name	percentage
Albania	3%
Andorra	0%
Austria	11%
...	...

Decimal places

Percent symbol %

Correct answer

name	percentage
Albania	3%
Andorra	0%
Austria	11%
Belarus	12%
Belgium	14%
Bosnia and Herzegovina	5%
Bulgaria	9%
Croatia	5%
Czech Republic	13%
Denmark	7%
Estonia	2%
Finland	7%
France	82%
Germany	100%
Greece	14%
Hungary	12%
Iceland	0%
Ireland	6%
Italy	75%
Kazakhstan	21%
Latvia	2%
Liechtenstein	0%
Lithuania	4%
Luxembourg	1%
Macedonia	3%
Malta	1%
Moldova	4%
Monaco	0%

Montenegro	1%
Netherlands	21%
Norway	6%
Poland	48%
Portugal	13%
Romania	25%
San Marino	0%
Serbia	9%
Slovakia	7%
Slovenia	3%
Spain	58%
Sweden	12%
Switzerland	10%
Ukraine	53%
United Kingdom	79%
Vatican City	0%

To get a well rounded view of the important features of SQL you should move on to the next tutorial concerning aggregates.

To gain an absurdly detailed view of one insignificant feature of the language, read on.

We can use the word ALL to allow >= or > or < or <=to act over a list. For example, you can find the largest country in the world, by population with this query:

```
SELECT name
  FROM world
 WHERE population >= ALL(SELECT population
                          FROM world
                         WHERE population>0)
```

You need the condition **population>0** in the sub-query as some countries have **null** for population.

Bigger than every country in Europe

6.

Which countries have a GDP greater than every country in Europe? [Give the name only.] (Some countries may have NULL gdp values)

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Correct answer

name
China
Japan
United States

We can refer to values in the outer SELECT within the inner SELECT. We can name the tables so that we can tell the difference between the inner and outer versions.

Largest in each continent

7.

Find the largest country (by area) in each continent, show the continent, the name and the area:

The above example is known as a **correlated** or **synchronized** sub-query.

Using correlated subqueries
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Correct answer

continent	name	area
Africa	Algeria	2381741

Oceania	Australia	7692024
South America	Brazil	8515767
North America	Canada	9984670
Asia	China	9596961
Caribbean	Cuba	109884
Europe	Kazakhstan	2724900
Eurasia	Russia	17125242

First country of each continent (alphabetically)

8.

List each continent and the name of the country that comes first alphabetically.

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Correct answer

continent	first_country_alphabetically
Africa	Algeria
Asia	Afghanistan
Caribbean	Antigua and Barbuda
Eurasia	Armenia
Europe	Albania
North America	Belize
Oceania	Australia
South America	Argentina

Difficult Questions That Utilize Techniques Not Covered In Prior Sections

9.

Find the continents where all countries have a population <= 25000000. Then find the names of the countries associated

with these continents. Show name, continent and population.

Correct answer

name	continent	population
Antigua and Barbuda	Caribbean	86295
Australia	Oceania	23545500
Bahamas	Caribbean	351461
Barbados	Caribbean	285000
Cuba	Caribbean	11167325
Dominica	Caribbean	71293
Dominican Republic	Caribbean	9445281
Fiji	Oceania	858038
Grenada	Caribbean	103328
Haiti	Caribbean	10413211
Jamaica	Caribbean	2717991
Kiribati	Oceania	106461
Marshall Islands	Oceania	56086
Micronesia, Federated States of	Oceania	101351
Nauru	Oceania	9945
New Zealand	Oceania	4538520
Palau	Oceania	20901
Papua New Guinea	Oceania	7398500
Saint Lucia	Caribbean	180000
Samoa	Oceania	187820
Solomon Islands	Oceania	581344
Tonga	Oceania	103036
Trinidad and Tobago	Caribbean	1328019
Tuvalu	Oceania	11323
Vanuatu	Oceania	264652

Three time bigger

10.

Some countries have populations more than three times that of all of their neighbours (in the same continent). Give the countries and continents.

Result:

name	continent
Russia	Eurasia

Show what the answer should be...