SELECT from WORLD Tutorial

From SQLZOO

| Language: | English • 中文 |
|-----------|--------------|
|-----------|--------------|

| name | continent | area | population | gdp |
|-------------|-----------|---------|------------|--------------|
| Afghanistan | Asia | 652230 | 25500100 | 20343000000 |
| Albania | Europe | 28748 | 2831741 | 12960000000 |
| Algeria | Africa | 2381741 | 37100000 | 188681000000 |
| Andorra | Europe | 468 | 78115 | 3712000000 |
| Angola | Africa | 1246700 | 20609294 | 100990000000 |
| | | | | |

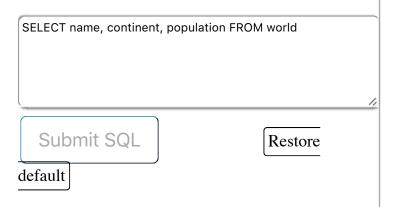
In this tutorial you will use the SELECT command on the table world:

Contents

- 1 Introduction
- 2 Large Countries
- 3 Per capita GDP
- 4 South America In millions
- 5 France, Germany, Italy
- 6 United
- 7 Two ways to be big
- 8 One or the other (but not both)
- 9 Rounding
- 10 Trillion dollar economies
- 11 Name and capital have the same length
- 12 Matching name and capital
- 13 All the vowels
- 14 What Next

Introduction

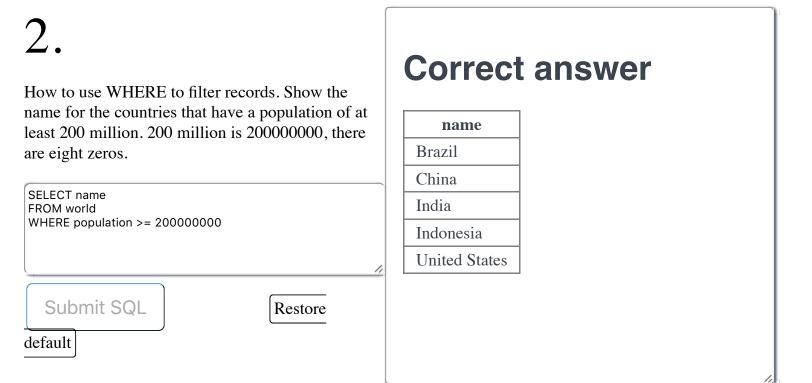
Read the notes about this table. Observe the result of running this SQL command to show the name, continent and population of all countries.



Correct answer

| name | continent | population |
|------------------------|------------------|------------|
| Afghanistan | Asia | 25500100 |
| Albania | Europe | 2821977 |
| Algeria | Africa | 38700000 |
| Andorra | Europe | 76098 |
| Angola | Africa | 19183590 |
| Antigua and Barbuda | Caribbean | 86295 |
| Argentina | South America | 42669500 |
| Armenia | Furasia | 3017400 |

Large Countries



Per capita GDP

Give the name and the per capita GDP for those countries with a population of at least 200 million.

HELP:How to calculate per capita GDP

SELECT name, gdp/population FROM world WHERE population >= 20000000

Submit SQL

default

Restore

| name | gdp/population |
|---------------|----------------|
| Brazil | 11115.2648 |
| China | 6121.7106 |
| India | 1504.7931 |
| Indonesia | 3482.0205 |
| United States | 51032.2945 |

Correct answer

South America In millions

Show the name and population in millions for the countries of the continent 'South America'. Divide the population by 1000000 to get population in millions.

SELECT name, population/1000000 AS 'Population (Millions)' FROM world

WHERE continent = 'South America'

Submit SQL

Restore

default

Correct answer

| name | Population (M |
|-----------|---------------|
| Argentina | 42.6695 |
| Bolivia | 10.0273 |
| Brazil | 202.7940 |
| Chile | 17.7730 |
| Colombia | 47.6620 |
| Ecuador | 15.7742 |
| Guyana | 0.7849 |
| Paraguay | 6.7834 |
| 7 | 20.4554 |

France, Germany, Italy

Show the name and population for France,
Germany, Italy

SELECT name, population
FROM world
WHERE name IN ('France', 'Germany', 'Italy')

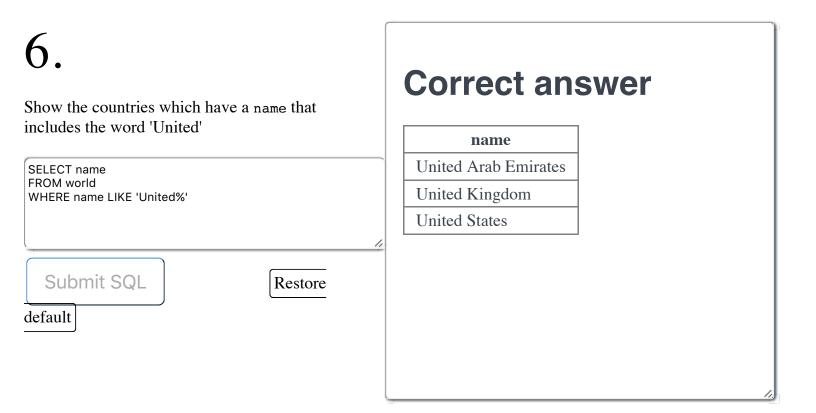
Submit SQL

default

Correct answer

| name | population |
|---------|------------|
| France | 65906000 |
| Germany | 80716000 |
| Italy | 60782668 |

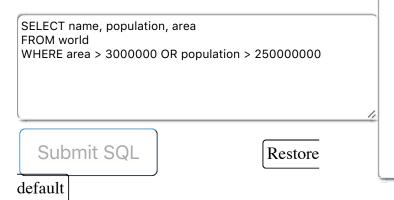
United



Two ways to be big

Two ways to be big: A country is **big** if it has an area of more than 3 million sq km or it has a population of more than 250 million.

Show the countries that are big by area or big by population. Show name, population and area.



Correct answer

| name | population | area |
|---------------|------------|----------|
| Australia | 23545500 | 7692024 |
| Brazil | 202794000 | 8515767 |
| Canada | 35427524 | 9984670 |
| China | 1365370000 | 9596961 |
| India | 1246160000 | 3166414 |
| Indonesia | 252164800 | 1904569 |
| Russia | 146000000 | 17125242 |
| United States | 318320000 | 9826675 |

One or the other (but not both)

Exclusive OR (XOR). Show the countries that are big by area or big by population but not both. Show name, population and area.

- Australia has a big area but a small population, it should be included.
- Indonesia has a big population but a small area, it should be **included**.
- China has a big population **and** big area, it should be **excluded**.
- United Kingdom has a small population and a small area, it should be **excluded**.

SELECT name, population, area FROM world WHERE area > 3000000 XOR population > 250000000

Correct answer

| name | population | area |
|-----------|------------|----------|
| Australia | 23545500 | 7692024 |
| Brazil | 202794000 | 8515767 |
| Canada | 35427524 | 9984670 |
| Indonesia | 252164800 | 1904569 |
| Russia | 146000000 | 17125242 |

Submit SQL

Restore

default

Rounding

Show the name and population in millions and the GDP in billions for the countries of the continent 'South America'. Use the ROUND function to show the values to two decimal places.

For South America show population in millions and GDP in billions both to 2 decimal places.

Millions and billions

SELECT name, ROUND(population/1000000, 2) AS 'Population (Millions)', ROUND(gdp/1000000000, 2) AS 'GDP (Billions)' FROM world WHERE continent = 'South America'

Submit SQL

Restore

default

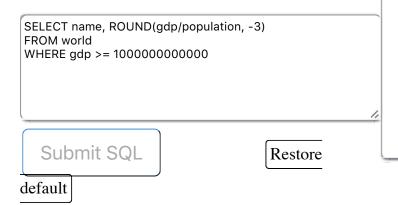
Correct answer

| name | Population (M | GDP (Billions) |
|-----------|---------------|-------------------|
| Argentina | 42.67 | 477.03 |
| Bolivia | 10.03 | 27.04 |
| Brazil | 202.79 | 2254.11 |
| Chile | 17.77 | 268.31 |
| Colombia | 47.66 | 369.81 |
| Ecuador | 15.77 | 87.50 |
| Guyana | 0.78 | 2.85 |
| Paraguay | 6.78 | 25.94 |
| D | 20.40 | 201.60 |

Trillion dollar economies

Show the name and per-capita GDP for those countries with a GDP of at least one trillion (10000000000000; that is 12 zeros). Round this value to the nearest 1000.

Show per-capita GDP for the trillion dollar countries to the nearest \$1000.



Correct answer

| name | ROUND(gdp/pop |
|-----------|---------------|
| Australia | 66000 |
| Brazil | 11000 |
| Canada | 45000 |
| China | 6000 |
| France | 40000 |
| Germany | 42000 |
| India | 2000 |
| Italy | 33000 |
| Japan | 47000 |

Name and capital have the same length

Greece has capital Athens.

Each of the strings 'Greece', and 'Athens' has 6 characters.

Show the name and capital where the name and the capital have the same number of characters.

 You can use the LENGTH function to find the number of characters in a string

SELECT name, capital
FROM world
WHERE LENGTH(name) = LENGTH(capital)

Submit SQL Restore default

Correct answer

| name | capital | |
|----------|----------|--|
| Algeria | Algiers | |
| Angola | Luanda | |
| Armenia | Yerevan | |
| Botswana | Gaborone | |
| Cameroon | Yaoundé | |
| Canada | Ottowa | |
| Djibouti | Djibouti | |
| Egypt | Cairo | |
| Estonia | Tallinn | |

Matching name and capital

The capital of Sweden is Stockholm. Both words start with the letter 'S'.

Show the name and the capital where the first letters of each match. Don't include countries where the name and the capital are the same word.

- You can use the function LEFT to isolate the first character.
- You can use <> as the NOT EQUALS operator.

SELECT name, capital FROM world WHERE LEFT(name, 1) = LEFT(capital, 1) AND name <> capital

Submit SQL

Restore

default

Correct answer

| name | capital |
|-----------|---------------------|
| Algeria | Algiers |
| Andorra | Andorra la Vella |
| Barbados | Bridgetown |
| Belize | Belmopan |
| Brazil | Brasília |
| Brunei | Bandar Seri Begawan |
| Burundi | Bujumbura |
| Guatemala | Guatemala City |
| Guyana | Georgetown |

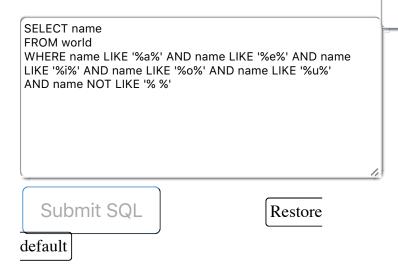
All the vowels

Equatorial Guinea and Dominican Republic

have all of the vowels (a e i o u) in the name. They don't count because they have more than one word in the name.

Find the country that has all the vowels and no spaces in its name.

- You can use the phrase name NOT LIKE '%a%' to exclude characters from your results.
- The query shown misses countries like Bahamas and Belarus because they contain at least one 'a'



Correct answer

name

Mozambique

What Next

- BBC QUIZ
- You can play a game: Find the duplicate (http://sqlzoo.net/brain/bt.htm)
- You can to continue practising the the same techniques and gain more experience of the basic skills on the Nobel table. The WHERE statement using the nobel table.
- You can learn about nested statements, these are instructive and entertaining, but not essential for beginners. Nested SELECT statements using the world table.

| Retrieved from "http://sqlzoo.net/w/index.php?title=SELECT_from_WORLD_Tutorial&oldid=38914 |
|--|
|--|

■ This page was last modified on 20 March 2017, at 15:37.