

SELECT from WORLD Tutorial

Language: English · 日本語 · 中文

name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
Albania	Europe	28748	2831741	12960000000
Algeria	Africa	2381741	37100000	18868100000
Andorra	Europe	468	78115	3712000000
Angola	Africa	1246700	20609294	100990000000
...				

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

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

Introduction

1. 😊

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

```
SELECT name, continent, population FROM world
```

Submit SQL

Restore default

Correct answer

name	continent	population
Afghanistan	Asia	25500100
Albania	Europe	2821977
Algeria	Africa	36700000
Andorra	Europe	76098
Angola	Africa	19183590
Antigua and Barbuda	Caribbean	86295
Argentina	South America	42669500

Large Countries

2. 😊

How to use WHERE to filter records. Show the name for the countries that have a population of at least 200 million. 200 million is 200000000, there are eight zeros.

```
SELECT name FROM world  
WHERE population >= 200000000
```

Submit SQL

Restore default

Correct answer

name
Brazil
China
India
Indonesia
United States

Per capita GDP

3. 😊

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

per capita GDP is the GDP divided by the population GDP/population

```
SELECT name, gdp/population FROM world  
WHERE population >= 200000000
```

Submit SQL

Restore default

Correct answer

name	
Brazil	11115.264751422625
China	6121.710598592322
India	1504.793124478397
Indonesia	3482.020488188676
United States	51032.29454636844

South America In millions

4. 😊

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 FROM world  
WHERE continent = 'South America'
```

Submit SQL

Restore default

Correct answer

name	
Argentina	42.6695
Bolivia	10.027254
Brazil	202.794
Chile	17.773
Colombia	47.662
Ecuador	15.7742
Guyana	0.784894

France, Germany, Italy

5. 😊

Show the name and population for France, Germany, Italy

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

Submit SQL

Restore default

Correct answer

name	population
France	65906000
Germany	80716000
Italy	60782668

United

6. 😊

Show the countries which have a name that includes the word 'United'

```
SELECT name FROM world  
WHERE name LIKE '%United%'
```

Submit SQL

Restore default

Correct answer

name
United Arab Emirates
United Kingdom
United States

Two ways to be big

7. 😊

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.

```
SELECT name, population, area FROM world  
WHERE area > 3000000 OR population > 250000000
```

Submit SQL

Restore default

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

One or the other (but not both)

8. 😊

Exclusive OR (XOR). Show the countries that are big by area (more than 3 million) or big by population (more than 250 million) 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 AND population <= 250000000) OR (area <= 3000000 AND population > 250000000)
```

Submit SQL

Restore default

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

Rounding

9. 😊

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), ROUND(gdp/1000000000,2) FROM world  
WHERE continent = 'South America'
```

Submit SQL

Restore default

Correct answer

name		
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	87.5
Guyana	0.78	2.85

Play the SELECT card game!

Error creating thumbnail: File missing
SELECT Card Game

Trillion dollar economies

10. 😊

Show the name and per-capita GDP for those countries with a GDP of at least one trillion (1000000000000; that is 12 zeros). Round this value to the nearest 1000.

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

```
SELECT name, ROUND(gdp/population,-3) FROM world  
WHERE gdp >= 1000000000000
```

Submit SQL

Restore default

Germany	42000
India	2000
Italy	33000
Japan	47000
Mexico	10000
Russia	14000
South Korea	22000
Spain	28000
United Kingdom	39000
United States	51000

Name and capital have the same length

11. 😊

Greece has capital Athens.

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

Show the name and capital where the name and 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
Andorra	Andorra la Vella
Bolivia	La Paz
Brunei	Bandar Seri Begawan
Guatemala	Guatemala City
Guyana	Georgetown
Maldives	Malé

Matching name and capital

12. 😊

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
Brazil	Brasília
Brunei	Bandar Seri Begawan
Guatemala	Guatemala City
Guyana	Georgetown
Maldives	Malé

All the vowels

13. 😊

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'.

```
SELECT name  
FROM world  
WHERE name LIKE '%a%'  
AND name LIKE '%e%'  
AND name LIKE '%i%'  
AND name LIKE '%o%'  
AND name LIKE '%u%'  
AND name NOT LIKE '% %'
```

Submit SQL

Restore default

Correct answer

name
Mozambique

What Next

• BBC QUIZ

• You can continue practising 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.

Categories: Pages using deprecated source tags | Languages pages

This page was last edited on 14 May 2022, at 23:53.

Privacy policy About SQLZOO Disclaimers

Powered by Mediawiki