

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	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 [hide]

- 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
- 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

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	32225560
Albania	Europe	2845955
Algeria	Africa	43000000
Andorra	Europe	77543
Angola	Africa	31127674
Antigua and Barbuda	Caribbean	96453
Argentina	South America	44938712
Armenia	Europe	3067500

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
Nigeria
Pakistan
United States

Per capita GDP

- SELECT basics
- quiz
- SELECT from world
- quiz
- SELECT from nobel
- quiz
- SELECT in SELECT
- quiz
- SUM and COUNT
- quiz
- JOIN
- quiz
- More JOIN
- quiz
- Using NULL
- quiz
- Self JOIN
- quiz
- Reference
- Tools

3. 😊

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

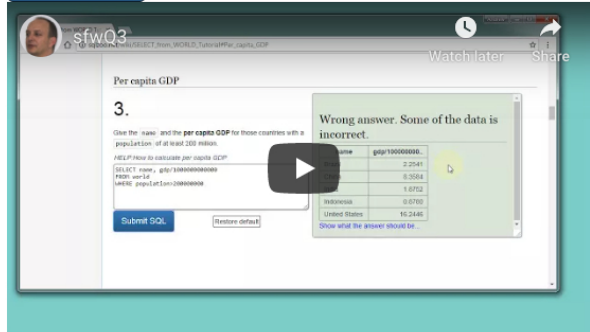
HELP: How to calculate per capita GDP

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	GDP/population
Brazil	9721.37
China	8724.3064
India	1891.7811
Indonesia	3804.7723
Nigeria	1822.8862
Pakistan	1377.0363
United States	59121.1921

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	population/10..
Argentina	44.9387
Bolivia	11.4699
Brazil	211.4426
Chile	19.1072
Colombia	49.3957
Ecuador	17.4729
Guyana	0.7828
Paraguay	7.2527

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	67076000
Germany	83149300
Italy	60238522

United

6. 😊

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

```
select name
```

Correct answer

name
United Arab Emirates

```
from world
where name like '%United%'
```

Submit SQL

Restore default

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	25690023	7692024
Brazil	211442625	8515767
Canada	38007166	9984670
China	1402378640	9596961
India	1361503224	3166414
Indonesia	266911900	1904569
Russia	146745098	17125242
United States	320582018	9826675

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	25690023	7692024
Brazil	211442625	8515767
Canada	38007166	9984670
Indonesia	266911900	1904569
Russia	146745098	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) as population,
round(GDP/1000000000,2) as gdp
from world
where continent='South America'
```

Submit SQL

Restore default

Correct answer

name	population	gdp
Argentina	44.94	637.49
Bolivia	11.47	37.51
Brazil	211.44	2055.51
Chile	19.11	277.08
Colombia	49.4	309.19
Ecuador	17.47	104.3
Guyana	0.78	3.09
Paraguay	7.95	20.44

[Click here to play the 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

Correct answer

name	round(GDP/pop..
Australia	55000
Brazil	10000
Canada	43000
China	9000
France	39000
Germany	44000
India	2000
Indonesia	4000

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 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	Ottawa
Djibouti	Djibouti
Egypt	Cairo

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 name <> capital and left(name, 1) = left(capital, 1)
```

Submit SQL

Restore default

Correct answer

name	capital
Algeria	Algiers
Andorra	Andorra la Vella
Barbados	Bridgetown
Belize	Belmopan
Brazil	Brasilia
Brunei	Bandar Seri Begawan
Burundi	Bujumbura
Guatemala	Guatemala City

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

Correct answer

name
Mozambique

results.

- The query shown misses countries like Bahamas and Belarus because they contain at least one 'a'

```
SELECT name
FROM world
WHERE (lower(name) LIKE '%a%'
      and lower(name) LIKE '%e%'
      and lower(name) LIKE '%i%'
      and lower(name) LIKE '%o%'
      and lower(name) LIKE '%u%')
AND replace(lower(name), ' ', '') = lower(name)
```

Submit SQL

Restore default

What Next

[Click here to play the SELECT card game](#)

- [BBC QUIZ](#)
- 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.](#)

Category: [Languages pages](#)

This page was last edited on 19 December 2020, at 15:25.

[Privacy policy](#) [About SQLZOO](#) [Disclaimers](#)

Powered By
MediaWiki