

# 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`:

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## 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 SQLRestore default

Belarus	Europe	9467000
Belgium	Europe	11198638
Belize	North America	349728
Benin	Africa	9988068
Bhutan	Asia	749090
Bolivia	South America	10027254
Bosnia and Herzegovina	Europe	3791622
Botswana	Africa	2024904
Brazil	South America	202794000
Brunel	Asia	393162
Bulgaria	Europe	7245677

## 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 SQLRestore 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) as per\_capita\_GDP from world  
where population >= 200000000;

Submit SQLRestore default

Correct answer

name	per_capita_GDP
Brazil	11115.2648
China	6121.7106
India	1504.7931
Indonesia	3482.0205
United States	51032.2945

sflwQ3

## 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) as population\_in\_m from world  
where continent in ("South America");

Submit SQLRestore default

Brazil	202.794
Chile	17.773
Colombia	47.662
Ecuador	15.7742
Guyana	0.7849
Paraguay	6.7834
Peru	30.4751
Saint Vincent and the Grenadines	0.109
Suriname	0.5342
Uruguay	3.2863
Venezuela	28.9461

## 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 SQLRestore 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 "Unit%";

Submit SQLRestore 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 SQLRestore 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
United States	319339000	9836127

## 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 xor population > 250000000;

Submit SQLRestore default

Correct answer

name	population	area
Australia	23545500	7692024
Brazil	202794000	8515767
Canada	35427524	9984670
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

Divide by 1000000 (6 zeros) for millions. Divide by 1000000000 (9 zeros) for billions.

select name, round(population/1000000,2), round(gdp/1000000000,2) from world  
where continent in ("South America");

Submit SQLRestore default

Correct answer

name	round(populat..	round(gdp/100..
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
Paraguay	6.78	76.04

## 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 SQLRestore default

Correct answer

name	round((gdp/po..
Australia	66000
Brazil	11000
Canada	45000
China	6000
France	40000
Germany	42000
India	2000
Italy	32000

## 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 SQLRestore 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 LEFT(name,1)= LEFT(capital,1) and name != capital;

Submit SQLRestore default

Correct answer

name	capital
Algeria	Algiers
Andorra	Andorra la Vella
Barbados	Bridgetown
Belize	Belmopan
Brazil	Brasilia
Brunei	Bandar Seri Begawan
Burundi	Bujumbura
Cambodia	Phnom Penh

## 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 query 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 SQLRestore default

Correct answer

name
Mozambique

## What Next

Click here to play the SELECT card game!

- 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.

Category: Languages pages