1. [**Read the notes about this table.**](https://sqlzoo.net/wiki/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

1. [**How to use WHERE to filter records.**](https://sqlzoo.net/wiki/WHERE_filters) **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

1. **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

1. **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 FROM world

WHERE continent = 'South America'

1. **Show the name and population for France, Germany, Italy**

SELECT name, population FROM world

WHERE name IN ('France', 'Germany', 'Italy')

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

SELECT name FROM world

WHERE name LIKE 'United%'

1. **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

1. **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)

1. **Show the name and population in millions and the GDP in billions for the countries of the continent 'South America'. Use the** [**ROUND**](https://sqlzoo.net/wiki/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= 'South America'

1. **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

1. **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](https://sqlzoo.net/wiki/LENGTH) function to find the number of characters in a string

SELECT name, capital FROM world

WHERE LENGTH(name)=LENGTH(capital)

1. **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](https://sqlzoo.net/wiki/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)

1. **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 '%o%'

AND name LIKE '%u%'

AND name LIKE '%i%'

AND name NOT LIKE '% %'