Description

Field	Type	Null	Key	Default	Notes
name	**varchar(50)**	Name of the country - the primary key.			
continent	**varchar(60)**	Not strictly continent			
area	**decimal(10,0)**	YES		null	
population	**decimal(11,0)**	YES		null	
gdp	**decimal(14,0)**	YES		null	
capital	**varchar(60)**	YES		null	
tld	**varchar(5)**	YES		null	
flag	**varchar(255)**	YES		null	

1 Introduction

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

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

2 Large Countries

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
```

3 Per capita GDP

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

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

4 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
FROM world
where continent='South America'
```

5 France, Germany, Italy

Show the name and population for France, Germany, Italy

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

6   United

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

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

7   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.

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

8   One or the other (but not both)

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.

```
SELECT name,population,area
FROM world
WHERE (area>3000000 AND population<250000000)
OR (area<3000000 AND population>250000000)
```

9   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.

```
SELECT name, ROUND(population/1000000,2), ROUND(gdp/1000000000, 2)
FROM world
WHERE continent = 'South America'
```

10   Trillion dollar economies

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.

```
SELECT name, round(gdp/population,-3)
FROM world
where gdp>1e12
```

11   Name and capital have the same length

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

```
SELECT name, capital
FROM world
WHERE LEN(name) = LEN(capital)
```

12   Matching name and capital

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.

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

13   All the vowels

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

```
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 '% %'
```