SELECT names

Language:	English •	本語•中文
name	continent	
Afghanistan	Asia	
Albania	Europe	
Algeria	Africa	
Andorra	Europe	
Angola	Africa	

Pattern Matching Strings

This tutorial uses the **LIKE** operator to check names. We will be using the SELECT command on the table **world**:

1.

You can use WHERE name LIKE 'B%' to find the countries that start with "B".

■ The % is a wild-card it can match any characters

Find the country that start with Y

SELECT name FROM world WHERE name LIKE 'Y%'

Submit SQL

Restore default

Correct answer





Find the countries that end with y

SELECT name FROM world
WHERE name LIKE '%Y'

Submit SQL

Restore default

Correct answer

name		
Turkey		
Germany		
Hungary		
Italy		

Norway

Vatican City

Paraguay

Uruguay

Luxembourg has an \mathbf{x} - so does one other country. List them both.

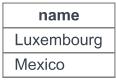
Find the countries that contain the letter x

SELECT name FROM world
WHERE name LIKE '%x%'

Submit SQL

Restore default

Correct answer



4.

Iceland, Switzerland end with land - but are there others?

Find the countries that end with land

SELECT name FROM world WHERE name LIKE '%land' Restore default Submit SQL **Correct answer** name Swaziland Thailand **Finland** Iceland Ireland Poland Switzerland New Zealand

5.

Columbia starts with a **C** and ends with **ia** - there are two more like this.

Find the countries that start with C and end with ia

SELECT name FROM world WHERE name LIKE 'C%ia'

Submit SQL

Restore default

Correct answer name Cambodia Colombia Croatia

6.

Greece has a double \mathbf{e} - who has a double \mathbf{o} ?

Find the country that has oo in the name

SELECT name FROM world WHERE name LIKE '%oo%'

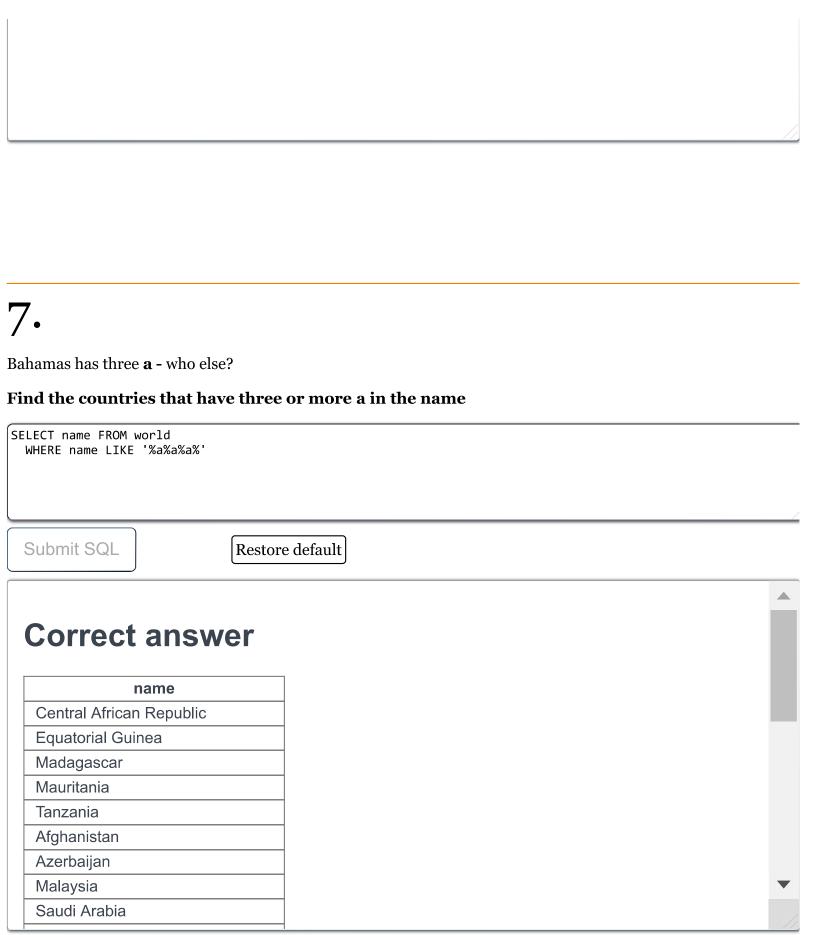
Submit SQL

Restore default

Correct answer

name

Cameroon



India and Angola have an **n** as the second character. You can use the underscore as a single character wildcard.

SELECT name FROM world WHERE name LIKE '_n%' ORDER BY name

Find the countries that have "t" as the second character.

SELECT name FROM world WHERE name LIKE '_t%' ORDER BY name

Submit SQL

Restore default

Correct answer

name Ethiopia Italy

9.

Lesotho and Moldova both have two o characters separated by two other characters.

Find the countries that have two "o" characters separated by two others.

SELECT name FROM world WHERE name LIKE '%o o%' Submit SQL Restore default **Correct answer** name Congo, Democratic Republic of Congo, Republic of Lesotho Morocco Sao Tomé and Príncipe Mongolia Moldova

10.

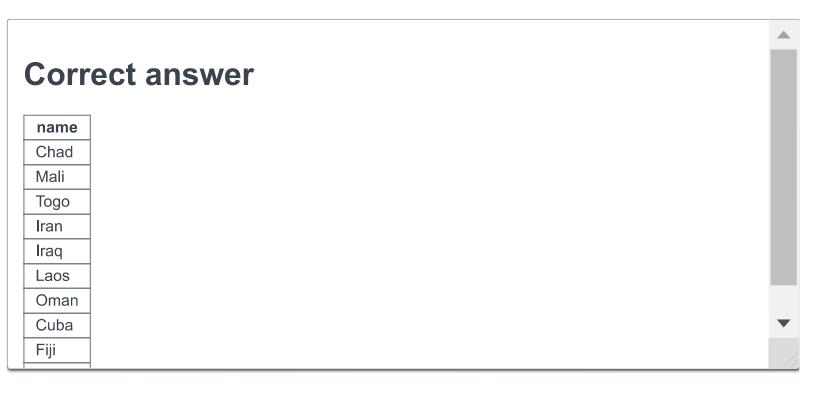
Cuba and Togo have four characters names.

Find the countries that have exactly four characters.

SELECT name FROM world
WHERE name LIKE '____'

Submit SQL

Restore default



Harder Questions

Well done for getting this far.

The next questions are optional and only for students who are finding the basic questions too easy.

11.

The capital of **Luxembourg** is **Luxembourg**. Show all the countries where the capital is the same as the name of the country

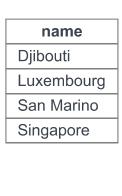
Find the country where the name is the capital city.

SELECT name
FROM world
WHERE name LIKE capital

Submit SQL

Restore default

Correct answer



The capital of **Mexico** is **Mexico** City. Show all the countries where the capital has the country together with the word "City".

Find the country where the capital is the country plus "City".

The concat function

SELECT name
FROM world
WHERE capital LIKE concat(name, ' City')

Submit SQL

Restore default

Correct answer

name

Guatemala

Kuwait

Mexico

Panama

Find the capital and the name where the capital includes the name of the country.

select capital, name from world where capital like concat('%',name,'%')

Submit SQL

Restore default

Correct answer

capital	name
Andorra la Vella	Andorra
Djibouti	Djibouti
Guatemala City	Guatemala
Kuwait City	Kuwait
Luxembourg	Luxembourg
Mexico City	Mexico
Monaco-Ville	Monaco
Panama City	Panama
San Marino	San Marino

Find the capital and the name where the capital is an extension of name of the country.

You *should* include **Mexico City** as it is longer than **Mexico**. You *should not* include **Luxembourg** as the capital is the same as the country.

```
select capital, name
from world
where capital like concat(name, '_%')
```

Submit SQL

Restore default

Correct answer

capital	name
Andorra la Vella	Andorra
Guatemala City	Guatemala
Kuwait City	Kuwait
Mexico City	Mexico
Monaco-Ville	Monaco
Panama City	Panama

15.

For **Monaco-Ville** the name is **Monaco** and the extension is **-Ville**.

Show the name and the extension where the capital is an extension of name of the country.

You can use the SQL function REPLACE.

```
select name, replace(capital, name, '')
from world
where capital like concat(name, '_%')
```

Submit SQL

Restore default

Correct answer

name	replace(capit
Andorra	la Vella
Guatemala	City
Kuwait	City
Mexico	City
Monaco	-Ville
Panama	City

Play Find the Duplicates (https://sqlzoo.net/brain/bt.htm)

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