SELECT names



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".

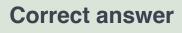
■ The % is a wild-card it can match any characters

Find the country that start with Y

SELECT name FROM world
WHERE name LIKE 'Y%'

Submit SQL

Restore default



name Yemen

2



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

3.



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

Find the countries that contain the letter \boldsymbol{x}

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

Submit SQL

Restore default







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

Find the countries that end with land

SELECT name FROM world WHERE name LIKE '%land'

Submit SQL

Restore default

Correct answer

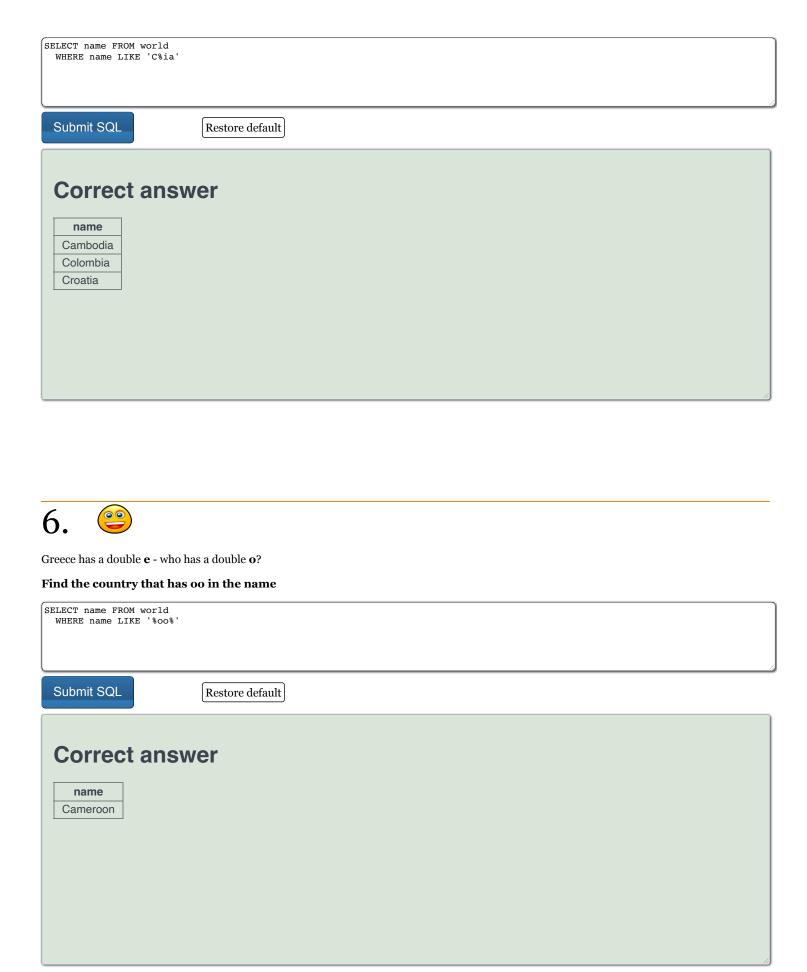
name		
Swaziland		
Thailand		
Finland		
Iceland		
Ireland		
Poland		
Switzerland		
New Zealand		

5.



Columbia starts with a ${\bf C}$ and ends with ${\bf ia}$ - there are two more like this.

Find the countries that start with C and end with ia







Bahamas has three a - who else?

Find the countries that have three or more a in the name

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

Submit SQL

Restore default

Correct answer

name
Central African Republic
Equatorial Guinea
Madagascar
Mauritania
Tanzania
Afghanistan
Azerbaijan
Malaysia
Saudi Arabia
United Arab Emirates

8.



India and Angola have an \mathbf{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







 $Les\mbox{\bf o}t\mbox{\bf h}\mbox{\bf o}$ and $M\mbox{\bf o}l\mbox{\bf d}\mbox{\bf o}v\mbox{\bf a}$ 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	



Cuba and Togo have four characters names.

Find the countries that have exactly four characters.

_						
		ne FROM world ne LIKE ''				
'	VIIDIND IIGIII					
L						
	Submit SQL Restore default					
	Correct answer					
	name					
	Chad					
	Mali					
	Togo					
	Iran					
	Iraq					
	Laos					
	Oman					
	Cuba					
	Fiji					

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

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Find the Duplicates Game

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.



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 = capital;

Submit SQL

Restore default

Correct answer

name
Djibouti
Luxembourg
San Marino
Singapore
```

12.

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





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, '%') AND capital > name;

Submit SQL

Restore default

capitalnameAndorra la VellaAndorra	
Andorra la Vella Andorra	
7 tradita la volla 7 tradita	
Guatemala City Guatema	la
Kuwait City Kuwait	
Mexico City Mexico	
Monaco-Ville Monaco	
Panama City Panama	





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, '%') AND capital > name;

Submit SQL

Restore default

Correct answer

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

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Vancouver Symphony



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