SELECT names

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%'
```
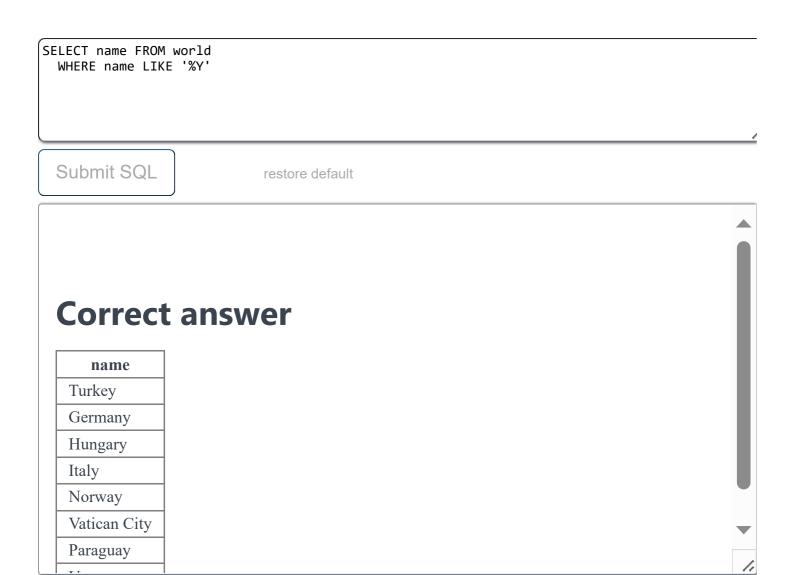
Submit SQL   restore default

Correct answer

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

3.

Luxembourg has an **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%'
```
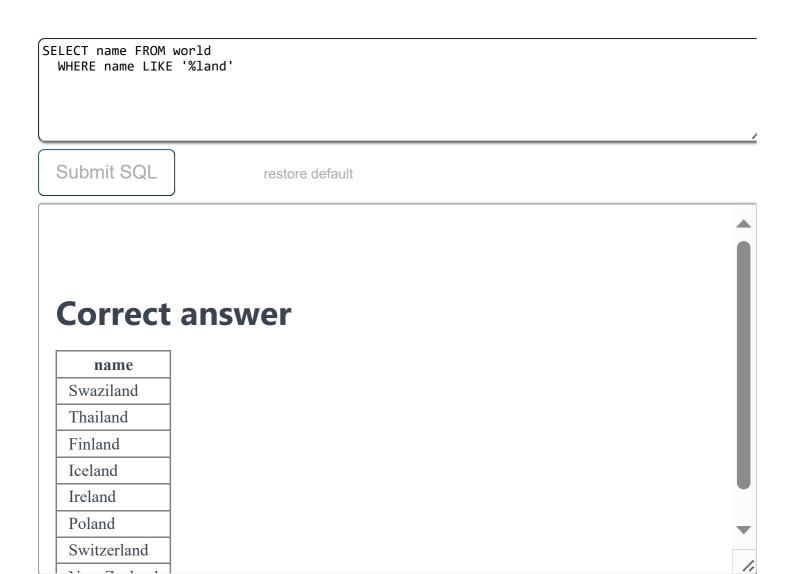
Submit SQL   restore default

Correct answer

name
Luxembourg
Mexico

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'
```

Submit SQL   restore default

Correct answer

name
Swaziland
Thailand
Finland
Iceland
Ireland
Poland
Switzerland

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'
```

Correct answer

name
Cambodia
Colombia
Croatia

6.

Greece has a double **e** - who has a double **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

7.

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
Sao TomÃ© and PrÃ\ncipe
Tanzania
Afghanistan

8.

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.

Les**otho** and M**oldo**va 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 TomÃ© and PrÃncipe
Mongolia
Moldova

10.

Cuba and Togo have four characters names.

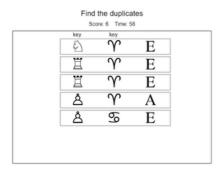**Find the countries that have exactly four characters.**

```
SELECT name FROM world
 WHERE name LIKE '____'
```

Submit SQL   restore default

Correct answer

name
Chad
Mali
Togo
Iran
Iraq
Laos
Oman

Play Find the Duplicates

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.

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

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 concat(name,' ','City') LIKE capital
```

Submit SQL   restore default

Correct answer

name
Guatemala
Kuwait
Mexico
Panama

13.

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

14.

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 length(capital) > length(name) and 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.

The capital of Monaco is **Monaco-Ville**: this is the name **Monaco** and the extension is **-Ville**.

Show the name and the extension where the capital is a proper (non-empty) 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
length(replace(capital,name,''))>0
```

Submit SQL

restore default

Correct answer

name	replace(capital,name,'')
Andorra	la Vella
Guatemala	City
Kuwait	City
Mexico	City
Monaco	-Ville
Panama	City

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