SELECT names

Language:	English · 日本語 · 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

result

2.

Find the countries that end with y

```
SELECT name FROM world
  WHERE name LIKE '%y'
```

Submit SQL   restore default

result

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

result

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

result

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

result

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

result

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

result

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
```

result

Submit SQL   restore default

9.

Les**otho** and M**old**ova 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

result

10.

Cuba and Togo have four characters names.

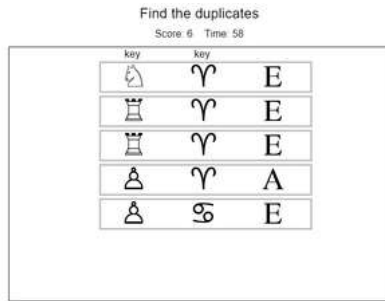**Find the countries that have exactly four characters.**

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

Submit SQL   **restore default**

result

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

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 = capital
```

Submit SQL   restore default

result

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 = concat(name, " City")
```

Submit SQL   restore default

result

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

result

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 capital like concat(name, '%') and capital != name;
```

result

Submit SQL

restore default

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, '') as extension
from world
where capital like concat(name, '_%');
```

Submit SQL   restore default

result

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