# 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

# 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 country
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'
```

Submit SQL                    restore default

## 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 PrÃncipe |
| 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.

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 TomÃ© and PrÃncipe |
| Mongolia |
| Moldova |

# 10.

Cuba and Togo have four characters names.

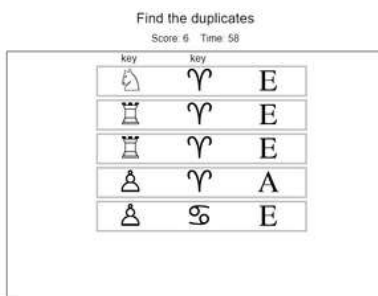**Find the countries that have exactly four characters.**

```
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 (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.

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# 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

## 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 = CONCAT(name, ' City');
```

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.**

```
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 capital LIKE CONCAT(name, '%')
 AND LENGTH(capital) > LENGTH(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, '') AS extension
FROM world
WHERE capital LIKE CONCAT(name, '%')
  AND LENGTH(REPLACE(capital, name, '')) > 0;
```

Submit SQL                    restore default

# Correct answer

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

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