

SELECT basics

From SQLZOO

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name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
Albania	Europe	28748	2831741	12960000000
Algeria	Africa	2381741	37100000	188681000000
Andorra	Europe	468	78115	3712000000
Angola	Africa	1246700	20609294	100990000000
....				

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Introducing the world table of countries

This tutorial introduces SQL. We will be using the SELECT command on the table **world**:

Summary

1.

The example shows the population of 'France'. Strings should be in 'single quotes';

Show the population of Germany

```
SELECT population FROM world
WHERE name = 'France'
```

Submit SQL

Restore default

result

Per Capita GDP

.

2.

The query shows the population density population/area for each country where the

area is over 5,000,000 km².

Show the name and per capita gdp: gdp/population for each country where the area is over 5,000,000 km²

```
SELECT name, population/area FROM world
WHERE area > 5000000
```

Submit SQL

Restore default

result

Small and wealthy

3.

Where to find some very small, very rich countries.

We use AND to ensure that two or more conditions hold true.

The example shows the countries where the population is small and the gdp is high.
Show the name and continent where the area is less than 2000 and the gdp is more than 5000000000

```
SELECT name , continent
FROM world
WHERE population < 2000000
AND gdp > 5000000000
```

result

Scandinavia

4.

Checking a list The word **IN** allows us to check if an item is in a list. The example shows the name and population for the countries 'Ireland', 'Iceland' and 'Denmark'

Show the name and the population for 'Denmark', 'Finland', 'Norway', 'Sweden'

```
SELECT name, population FROM world
WHERE name IN ('Ireland', 'Iceland',
              'Denmark')
```

Submit SQL

Restore default

result

Starts with G

5.

What are the countries beginning with G? **The word** LIKE **permits pattern matching** - % **is the wildcard**. The examples shows countries beginning with D

Show each country that begins with G

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

Submit SQL

Restore default

result

Just the right size

6.

Which countries are not too small and not too big? Show the country and the area for countries with an area between 200000 and 250000. `BETWEEN` allows range checking - note that it is inclusive.

Show the area in 1000 square km. Show *area/1000* instead of *area*

```
SELECT name, area FROM world
WHERE area BETWEEN 250000 AND 300000
```

Submit SQL

Restore default

result

SELECT Quiz

Try the regular expressions game. (http://socweb8.napier.ac.uk/~40052114/regex/index.php?title=How_To_Play)

You are ready for tutorial one:SELECT statements with WHERE.

Language:	English • Deutsch
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