

## SQLZOO: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 |

### Introducing the **world** table of countries

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

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="Germany"
```

Submit SQL

Restore default

### Correct answer

population

80716000

### Per Capita GDP

The query shows the population density  $\text{population/area}$  for

2. each country where the area is over 5,000,000 km<sup>2</sup>.  
**Show the name and per capita gdp:**  
**`gdp/population` for each country where the area is over 5,000,000 km<sup>2</sup>**

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```
select name,gdp/population from world where  
area>5000000
```

Submit SQL

Restore default

## Correct answer

| name          | gdp/population |
|---------------|----------------|
| Australia     | 66442.3775     |
| Brazil        | 11115.2648     |
| Canada        | 44739.2259     |
| China         | 6121.7106      |
| Russia        | 13902.8219     |
| United States | 51032.2945     |

## 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  
area<2000 and gdp>5000000000
```

Submit SQL

Restore default

## Correct answer

| name          | continent |
|---------------|-----------|
| Bahrain       | Asia      |
| Liechtenstein | Europe    |
| Malta         | Europe    |
| Monaco        | Europe    |
| Singapore     | Asia      |

| name        | continent | area    | population | gdp          |
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| ---         | ---       | ---     | ---        | ---          |

## 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 ('Denmark','Finland','Norway','Sweden')
```

Submit SQL

Restore default

## Correct answer

| name    | population |
|---------|------------|
| Denmark | 5634437    |
| Finland | 5458038    |
| Norway  | 5124383    |
| Sweden  | 9675885    |

## 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

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Show each country that begins with G

```
select name from world where name like "G%"
```

Submit SQL

Restore default

## Correct answer

| name      |
|-----------|
| Gabon     |
| Gambia    |
| Georgia   |
| Germany   |
| Ghana     |
| Greece    |
| Grenada   |
| Guatemala |
| Guinea    |

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/1000 from world where area  
between 200000 and 250000
```

Submit SQL

Restore default

## Correct answer

| name           | area/1000 |
|----------------|-----------|
| Belarus        | 207.6000  |
| Ghana          | 238.5330  |
| Guinea         | 245.8570  |
| Guyana         | 214.9690  |
| Laos           | 236.8000  |
| Romania        | 238.3910  |
| Uganda         | 241.5500  |
| United Kingdom | 242.9000  |

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### SELECT Quiz

### Try the regular expressions game.

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

Language: **English**

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