MANUAL LMD SQL

SELECT basics

Introducing the world table of countries

1. The example uses a WHERE clause to show the population of 'France'. Note that strings (pieces of text area that are data) should be in 'single quotes'.

Modify it to show the population of Germany.

Código:

```
select population from world where name = 'France';
```

Corrección:

```
select population from world where name='Germany';
```


Scandinavia

2. Checking a list with the word IN allows us to check if an item is in a list. The example shows the name and population for the countries 'Brazil', 'Russia', 'India' and 'China'.

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

Código:

```
select name, population from world where name in ('Brazil', 'Russia', 'India',
'China');
```

Corrección:

```
select name, population from world where name in('Sweden', 'Norway', 'Denmark');
```

Just the right size

3. Which countries are not too small and not too big? `between` **allows range checking (range specified is inclusive of boundary values). The example below shows countries with an area of 250,000-300,000 sq. km.**

Modify it to show the country and the area for countries with an area between 200,000 and 250,000.

Código:

```
select name, area from world where area between 250000 and 300000;
```

Corrección:

SELECT basics - quiz

1. Select the code which produces this table:

name	population
Bahrain	1234571
Swaziland	1220000
Timor-Leste	1066409

Respuesta:

2. Pick the result you would obtain from this code:

```
select name, population from world where name like "Al%"
```

Respuesta:

3. Select the code which shows the countries that end in A or L.

Respuesta:

4. Pick the result from the query:

```
select name, length(name) from world where length(name)=5 and region='Europe';
```

Respuesta:

5. Here are the first few rows of the world table:

name	region	area	population	gdp
Afghanistan	South Asia	652225	26000000	
Albania	Europe	28728	3200000	6656000000
Algeria	Middle East	2400000	32900000	75012000000
Andorra	Europe	468	64000	
...				

Pick the result you would obtain from this code:

```
select name, area*2 from world where population=64000;
```

Respuesta:

6. Select the code that would show the countries with an area larger than 50000 and a population smaller than 10000000.

Respuesta:

```
SELECT name, area, population
  FROM world
 WHERE area > 50000 AND population < 10000000
```

7. Select the code that shows the population density of Chine, Australia, Nigeria and France.

Respuesta:

```
SELECT name, population/area
  FROM world
 WHERE name IN ('China', 'Nigeria', 'France', 'Australia')
```