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'.

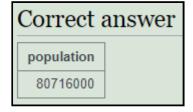
Modify it to show the population of Germany.

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');
```

Correct answer		
name	population	
Denmark	5634437	
Norway	5124383	
Sweden	9675885	

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 name, area from world where area between 200000 and 250000;

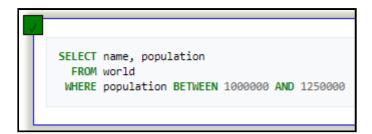
Correct answer		
name	area	
Belarus	207600	
Ghana	238533	
Guinea	245857	
Guyana	214969	
Laos	236800	
Romania	238391	
Uganda	241550	

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:

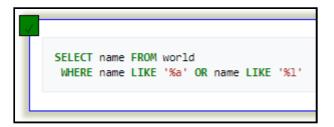
```
select name, population from world where name like "Al%"
```

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:

,		
name	length(name)	
Italy	5	
Malta	5	
Spain	5	

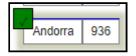
5. Here are the first few rows of the world table:

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')
```

SELECT from world

Introduction

1. Observe the result of running this SQL command to show the name, continent and population of all countries.

Código:

```
select name, continent, population from world;
```

Corrección (es lo mismo):

select name, continent, population from world;

Correct answer		
name	continent	population
Afghanistan	Asia	25500100
Albania	Europe	2821977
Algeria	Africa	38700000
Andorra	Europe	76098
Angola	Africa	19183590
Antigua and Barbuda	Caribbean	86295
Argentina	South America	42669500

Large Countries

2. Show the name for the countries that have a population of at least 200 million. 200 million is 200000000, there are eight zeros.

Código:

```
select name from world where population=64105700;
```

Corrección:

select name from world where population>=2000000000;



Per capita GDP

3. Give the name and the per capita GDP for those countries with a population of at least 200 million.

Respuesta:

select name, gdp/population from world where population>=200000000;

Correct answer		
name		
Brazil	11115.264751422625	
China	6121.710598592322	
India	1504.793124478397	
Indonesia	3482.020488188676	
United States	51032.29454636844	

South America In millions

4. Show the name and population in millions for the countries of the continent 'South America'. Divide the population by 1000000 to get population in millions.

Respuesta:

select name, population/1000000 from world where continent='South America';

Correct answer	
name	
Argentina	42.6695
Bolivia	10.027254
Brazil	202.794
Chile	17.773
Colombia	47.662
Ecuador	15.7742
Guyana	0.784894

France, Germany, Italy

5. Show the name and population for France, Germany, Italy.

Respuesta:

```
select name, population from world where name in('France', 'Germany', 'Italy');
```

Correct answer	
name	population
France	65906000
Germany	80716000
Italy	60782668

United

6. Show the countries which have a name that includes the word 'United'.

Respuesta:

```
select name from world where name like '%United%';
```

