Wesley Johnson

Dr. Vinay

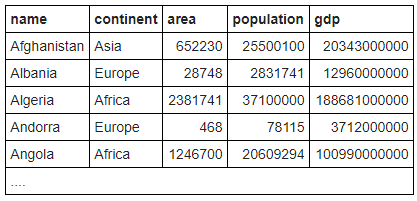
Revature Online Certification Program – I

9/29/20

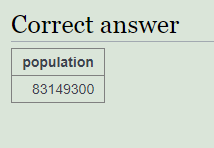
SQL Tutorial Questions and Answers

Website: <https://sqlzoo.net/>

1. SELECT basics



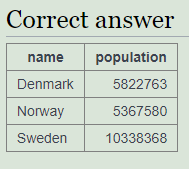
1. Question: The example uses a WHERE clause to show the population of 'France'. Note that strings (pieces of text that are data) should be in 'single quotes'.
2. Answer: SELECT population FROM world WHERE name = 'Germany';



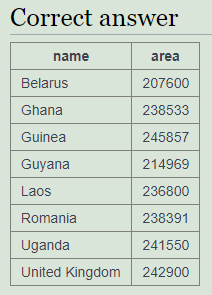
1. Question: Checking a list The word **IN** allows us to check if an item is in a list. The example shows the name and population for the countries 'Brazil', 'Russia', 'India' and 'China'.

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

1. Answer: SELECT name, population FROM world WHERE name IN ('Sweden', 'Norway', 'Denmark');



1. Question: 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.
2. Answer: SELECT name, area FROM world WHERE area BETWEEN 200000 AND 250000;



1. SELECT name

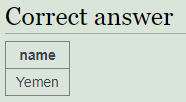


1. Question: You can use WHERE name LIKE 'B%' to find the countries that start with "B".

* The % is a *wild-card* it can match any characters

**Find the country that start with Y**

1. Answer: SELECT name FROM world WHERE name LIKE 'Y%';



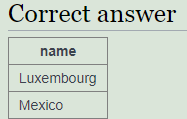
1. Question: **Find the countries that end with y**
2. Answer: SELECT name FROM world WHERE name LIKE '%y';



1. Question: Luxembourg has an **x** - so does one other country. List them both.

**Find the countries that contain the letter x**

1. Answer: SELECT name FROM world WHERE name LIKE '%x%';



1. Question: Iceland, Switzerland end with **land** - but are there others?

**Find the countries that end with land**

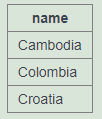
1. Answer: SELECT name FROM world WHERE name LIKE '%land';



1. Question: 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**

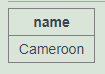
1. Answer: SELECT name FROM world WHERE name LIKE 'C%ia';



1. Question: Greece has a double **e** - who has a double **o**?

**Find the country that has oo in the name**

1. Answer: SELECT name FROM world WHERE name LIKE '%oo%';

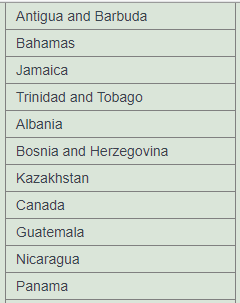


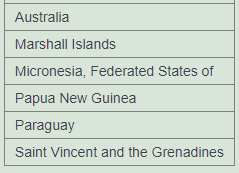
1. Question: Bahamas has three **a** - who else?

**Find the countries that have three or more a in the name**

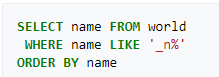
1. Answer: SELECT name FROM world WHERE name LIKE '%a%a%a%';







1. Question: India and Angola have an **n** as the second character. You can use the underscore as a single character wildcard.



**Find the countries that have "t" as the second character.**

1. Answer: SELECT name FROM world WHERE name LIKE '\_t%'

ORDER BY name;



1. Question: Les**o**th**o** and M**o**ld**o**va both have two o characters separated by two other characters.

**Find the countries that have two "o" characters separated by two others.**

1. Answer: SELECT name FROM world WHERE name LIKE '%o\_\_o%';



1. Question: Cuba and Togo have four characters names.

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

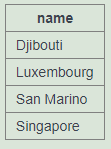
1. Answer: SELECT name FROM world WHERE length(name) = 4;



1. Question: 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.**

1. Answer: SELECT name FROM world WHERE name = capital



1. Question: 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:***

**The function concat is short for concatenate - you can use it to combine two or more strings.**

1. Answer:
2. Question: **Find the capital and the name where the capital includes the name of the country.**
3. Answer:
4. Question: **Find the capital and the name where the capital is an extension of name of the country.**

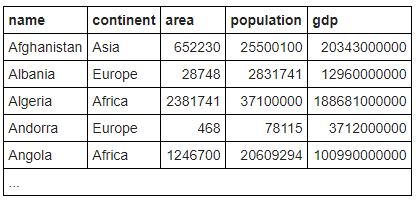
You *should* include **Mexico City** as it is longer than **Mexico**. You *should not* include **Luxembourg**as the capital is the same as the country.

1. Answer:
2. Question: For **Monaco-Ville** the name is **Monaco** and the extension is **-Ville**.

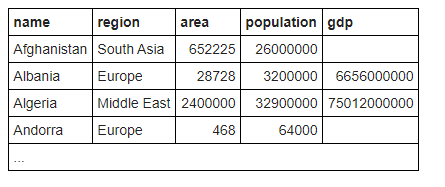
**Show the name and the extension where the capital is an extension of name of the country.**

You can use the SQL function [REPLACE](https://sqlzoo.net/wiki/REPLACE).

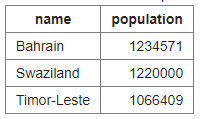
1. Answer:
2. SELECT from World



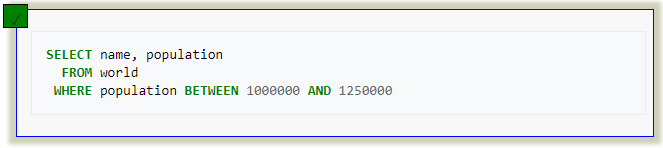
1. Question:
2. Answer:
3. Question:
4. Answer:
5. Question:
6. Answer:
7. SELECT from Nobel
8. SELECT within SELECT
9. SUM and COUNT
10. JOIN
11. More JOIN operations
12. Using Null
13. SQL Quiz



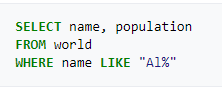
1. Question: Select the code that produces this table:



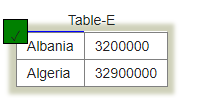
1. Answer:



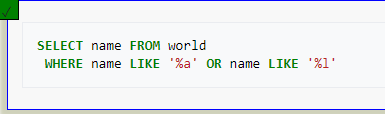
1. Question: Pick the result you would obtain from this code:



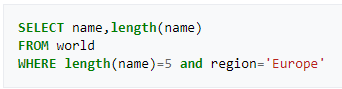
1. Answer:



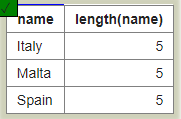
1. Question: Select the code which shows the countries that end in A or L
2. Answer:



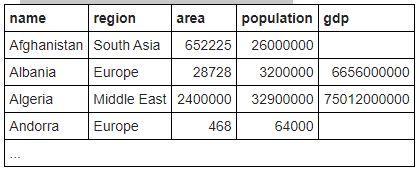
1. Question: Pick the result from the query



1. Answer:



1. Question: Here are the first few rows of the world table



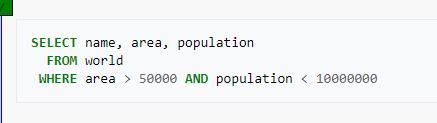
Pick the result you would obtain from this code:



1. Answer:



1. Question: Select the code that would show the countries with an area larger than 50000 and a population smaller than 10000000
2. Answer:



1. Question: Select the code that shows the population density of China, Australia, Nigeria and France
2. Answer:

