**Learning Activity 4-01**

**Is about:**

* Perform SELECT queries on a single table and without selection conditions.

**Goals:**

* Edit and execute SELECT statements on a table according to the required requirements.
* Find information about SELECT statement.
* Perform column queries for all rows in a table.
* Avoid repeated rows in result rows. Correctly use DISTINCT.
* Sort the results of a SELECT according to a criterion. Correctly use ORDER BY.
* Represent and correctly use literals and operators in SELECT statements.
* Set condition to limit maximum rows in SELECT results.
* Select the rows of a table that meet the indicated conditions (WHERE).

**Procedure**

You have to do all of these exercises by searching for information on the Internet about the SELECT statement.

1.- Start a session with a MySQL client (with **MySQLWorkbench** or with **mysql via console).**

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**If you don't have the world database, import it.**

**Open the world database to perform the following data queries.**

2.- Perform a SELECT to obtain all the country data stored in the country table **.**

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3.- Perform a SELECT to obtain all the data of the cities stored in the table **(country).**

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What does the **countryCode column contain?**

Three letters that form the ID of country.

4.- Based on the results of the queries carried out in exercises 2 and 3, what is the name of the country to which the city of **Bogra** whose id is 163 belongs?

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5.- Perform a SELECT to obtain the name, local name, continent, area, inhabitants, life expectancy, Gross National Product of all the countries in the world.

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6.- Perform a SELECT query to obtain the name, local name, continent, area, inhabitants, life expectancy, Gross National Product of all the countries in the world ordered ascending by name ***(search for information on using ORDER BY in SELECT).***

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7.- Perform a SELECT query to obtain the name, local name, continent, area, inhabitants, life expectancy, Gross National Product of all the countries in the world ordered descending by inhabitants.

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8.- Perform a query to obtain the name, continent and inhabitants of all the countries ordered ascending by continent and, within those of the same continent, ordered by name.

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9.- Obtain a list of all the names of the countries, ordered first in ascending order by continent. Countries on the same continent are ordered from most populated to least populated.

10.- Obtain the names, population and area in Km 2 of the five most populated countries in the world ***(search for information on the use of LIMIT in SELECT).***

11.- Obtain the names, population, area in km 2 and inhabitants per km 2 of all the countries ordered descending by inhabitants per km 2 or population density. The inhabitants per km 2 are obtained by dividing the inhabitants by the surface or extension of the country.

12.- Obtain the countries that occupy positions 11 to 30 in terms of longest life expectancy ***(search for information on the use of LIMIT in SELECT).***

13.- Obtain all the forms of government that exist in all the countries of the world.

You should see that many rows appear with repeated forms of government since one appears for each country or row in the **country table.**

14.- Obtain all the forms of government (without repeating) that exist in all the countries of the world ***(search for information on the use of DISTINCT in SELECT).***

15.- Obtain the data of all the cities in Spain. In the **city table,** they are cities whose **country code** is equal to **ESP.**

***(search for information on using WHERE in SELECT)***

17.- Obtain the name and population of all cities with more than 500 thousand inhabitants.

18.- Obtain the name and population of all the cities in Spain with more than 500 thousand inhabitants.

19.- Obtain the name and population of all the cities in Spain and France.

20.- Obtain the name and population of all cities with more than 500 thousand inhabitants belonging to Spain or France.