

Lab Task 1 – Essentials of SQL

Queestion 1 => As part of efforts of the World Health Organization (WHO) to contain the spread of COVID-19 pandemic worldwide. The organization you work with has been contracted to analyze a given world population dataset.

The schema of the database is:

Column	Type	Notes
Country	STRING	
population	NUMBER	(in millions)
Year	NUMBER	

Sequel to full project takeoff, as a member of the IT team, you've been assigned tasks which will warrant you answering the following questions using a database of the world population by country.

Refer to the above schema as you write queries to the database.

1. What years are covered by the dataset? (You can manually count the number of years returned).

Continue adding your queries below the first one as you proceed.

2. What is the largest population size for **Gabon** in this dataset?

3. What were the 10 lowest population countries in 2005?

4. What are all the distinct countries with a population of over 100 million in the year 2010?

5. How many countries in this dataset have the word "Islands" in their name?

6. What is the difference in population between 2000 and 2010 in Indonesia?

7. What is the world's population minus United States, China and India?

Note: it's okay to figure out the difference by hand after pulling the correct data.

Queestion 2 => Your team lead was impressed with how quickly you were able to complete the task, and would like you to propose ways whereby the database could be designed for better optimization.

=====SUBMISSION=====

Please note serious attention is now being drawn to the originality of every task submitted. As it is generally believe that no two persons can reason exactly the way, picking the same variable names, implementing logic exactly the same way etc. Therefore, each student is expected to submit only his/her own authentic work.

This is not a collaborative task!!!