Ashfaq Khan **Assignment 2**

ITMI23SP 12.12.2024

Course name

Ville Kauppi

**Assignment report**

GitHub*: https://github.com/XamkVika/assignment-2-Ashfaqkhanshimanto.git*

<https://github.com/Ashfaqkhanshimanto/Assignment2-python.git>

The goal of these assignment was to write a python script That will write a database to store country data and then read data from the csv file and then write it into the database and after that the python script will take the data from the database and visualize it in a graph as the 20 most populated countries and the 10 largest countries by area.

The first part of the script file imports the necessary requirements to run the script successfully or the python codes.

Then a function definition that setups the database and runs the required SQL commands inside it.

Then another function definition that reads the CSV file and then writes the data into the database. The code snippet also separates the data through the given conditions into its respective field

The next function defines the most populated country according to the instruction. At first it connects to a database and then reads through the query and then plots it into the graph and creates a figure.

The next function defines the largest area and at first it connects to the database and then use the query select to select the database and the required information and then plots the data into a figure form.

The last function or the main function is the python default function main which is the main function to call and run the program.

While writing the code I faced some problems related to committing and pushing. Therefore I wrote the whole script and added required comments inside the script so that the script is easier to understand and then uploaded the whole document into the private and the public repository.