

I have completed the assignment as per below:

1. Download the data from the given URL :  
<https://www.kaggle.com/datasets/kimjihoo/coronavirusdataset>
2. Create a producer with a python connector in confluent kafka and stream your data.
3. Consume your data through the python connector and dump it in mongodb atlas.

**Note: Here in the dataset you will be finding a multiple files you need to use all file for the kafka and mongodb**

4. Collect your data as a pyspark dataframe and perform different operations.

**Note: Consider only three files for creating a dataframe among all case, region and TimeProvince**

- a. Read the data, show it and Count the number of records.
- b. Describe the data with a describe function.
- c. If there is any duplicate value drop it.
- d. Use limit function for showcasing a limited number of records.
- e. If you find the column name is not suitable, change the column name.[optional]
- f. Select the subset of the columns.
- g. If there is any null value, fill it with any random value or drop it.
- h. Filter the data based on different columns or variables and do the best analysis.

*For example: We can filter a data frame using multiple conditions using AND(&), OR(|) and NOT(~) conditions. For example, we may want to find out all the different*