

**Test: Part-2 Question****Duration : 1 hr 10 mins**

**Data Visualization 10%** Individual grade  
Use Tableau or D3.

There are 4 datasets given in your test group folder.

**Read question before you retrieve or start using the given datasets.**

Question:

- (i) Use dataset **DATASET-1** for visualization (you can choose to create one or multiple charts) for the following query :  
  
*Visualise the top 20 countries with highest increase in the number of confirmed cases, on a daily basis, in the month of March.*  
*- Increase = number of cases today - number of cases yesterday*
- (ii) Create any other explanatory or exploratory visualization (one visualization is fine) of your choice using any of the given datasets  
 Constraint: your chart choice in (ii) should be different than the chart choice in (i)
- (iii) Prepare a short report following the template given at the end of this document. Include the URL of your tableau story or link of D3 visualization (if hosted on a public domain) in your report.

**Ask your appointed invigilator in the private chat of zoom session if you have any questions.**

**If you are making any assumptions, write in the first section of your submission (see template below)**

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### **Submission Instruction**

Submit in LuminNUS folder **Group1\_Test-16 April -> GROUP-1 SUBMISSIONS**

Note your submission folder is different than the folder you retrieved this question from.

**Students using Tableau** are required to submit **a link to tableau visualization** shared publicly and **a short report** (see template at the end of this document) **in a pdf file or a zip file** containing report and supplementary files used for creating visualization (if any). Name your file as **{yourMatricNumber}**, omitting the brackets.

**Students using D3** are required to submit **all html, script, and additional library files** in the **correct folder hierarchy**, supplementary files used for creating visualization (if any), and **a short report** (see template at the end of this document) **in a zip file**. Name your zip file as **{yourMatricNumber}**, omitting the brackets.

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Report - CS5346 Test

Matric Number : <Your Matric Number >

Test-Group: 1

URL of Tableau story/D3 Visualization :

1. (optional) Write here if you have made any assumptions or interpretations or difficulties you faced
2. (optional) Any observations or descriptions you wish to write about data you have handled.
3. Visualizations (Keep this section brief and to fulfil the requirements)
  - (i) Query : *Visualise the top 20 countries with highest increase in the number of confirmed cases, on a daily basis, in the month of March (Increase = number of cases today - number of cases yesterday)*

Image: < Provide images of the visualization with each such question/insight. >

Visual Encoding : < Describe visual encoding of the visualisation you have produced>

(optional) : Any other thing you want us to take note for this visualization

- (ii) Dataset :  
<Mention which Datasets (& specific columns) you used for this part of the question. You need not describe the dataset >

Query: <Describe the query you pursued and the insights you gained. >

Image: < Provide images of the visualization with each such question/insight. >

(optional) Any other comments or information you may have

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## Information about DATASETS

### DATASET-1

```
{
  "Date": "Date in yyyy-mm-dd",
  "Country": "Name of country",
  "Confirmed": "Number of confirmed cases",
  "Recovered": "Number of recovered cases",
  "Deaths": "Number of deaths"
}
```

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## DATASET-2

```
{
  "Province/State": "Name of province/state",
  "Country/Region": "Name of country/region",
  "Lat": "Latitude",
  "Long": "Longitude",
  "1/22/20....4/10/20": "NUmber of cases on a given date (mm/dd/yyyy)"
}
```

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## DATASET-3

```
{
  "Date": "Date in yyyy-mm-dd",
  "China": "Name of cases in China",
  "US": "Name of cases in US",
  "United_Kingdom": "Name of cases in UK",
  "Italy": "Name of cases in Italy",
  "France": "Name of cases in France",
  "Germany": "Name of cases in Germany",
  "Spain": "Name of cases in Spain",
  "Iran": "Name of cases in Iran"
}
```

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## DATASET-4

```
{
  "date": "Date in yyymmdd",
  "states": "Number of states infected",
  "positive": "Number of positive cases",
  "negative": "Number of negative cases",
  "pending": "Number of pending cases",
  "hospitalizedCurrently": "Number of patients hospitalised currently",
  "inIcuCurrently": "Number of patients in ICU currently",
  "onVentilatorCurrently": "Number of patients on ventilator currently",
  "recovered": "Number of recovered cases",
  "death": "Number of deaths",
  "total": "Total number of cases",
  "totalTestResults": "Total number of tests conducted",
  "deathIncrease": "Increase in the number of deaths",
  "negativeIncrease": "Increase in the number of negative cases",
  "positiveIncrease": "Increase in the number of positive cases",
  "totalTestResultsIncrease": "Increase in the number of tests conducted"
}
```

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