

Dear Student,

The objective of the final project is to put into practice one (or more) of the tools that you have seen in this course. You can use **Excel, Power Query, Power BI, SQL, Python, Machine Learning** or any **other visualisation tool, method or software** that can help you to implement the final project.

IMPORTANT: The focus of the project is on **Visualisation!** That means that the grading will be mainly based on how you visualised and represented the data (e.g. answers to your research questions).

You can take a scenario where an executive from the company X for which you work will receive the final presentation and will have to take a decision based on the insights he/she saw in the PPT/PDF or else the presentation that you sent to him/her (this is just an illustrative example).

COVID-19 Project: The aim of the Final project is to make some basic data manipulations and visualisation of the geographic distribution of COVID-19 cases worldwide.

Research questions:

- 1. Do the curves of cases and deaths have an upward trend globally?**
- 2. Does any continent have a distinct ascending curve of cases?**
- 3. What date was noted with the highest daily number of new cases? In which country?**
- 4. Does the epidemiological situation in France differ in comparison to Cuba?**

Overall, you should aim at applying some of the techniques that include, but are not limited to, data cleaning, data verification, data exploration, aggregation, visualisation, etc.

Dataset can be downloaded from [HERE](#).

Possible manipulations:

- Clean the data
- Validate data
- Use slicers by continent/month
- Use the geographical map to represent the top 10 countries by deaths
- Use a pivot table (of cases and deaths by months (globally))
- Answer research questions.

Delivery & Submission

The outcome of the project should be a **PowerPoint presentation** where you will explain:

- **Executive Summary**
- **The background of the project**
- **The research questions**
- **Steps taken to clean the data/verify/automate/explore/etc** (these are just examples)
- **The approach/method/tool used**
- **Results (visualisation)**

IMPORTANT NOTE: You should position the deliverable (the result) as if you were to send it for a high-level overview to a CEO/Director of the company who has to take an important strategic decision based on the data analysis/insights that you have prepared.