

Assignment 1 Data Visualization

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Scenario

Data visualisation has become an essential business capability to help transform information into insights that can drive meaningful business outcomes and improved experiences. Today, most organizations have accumulated a wealth of data from the different corners of their businesses they are then unable to see how this data can help them make better decision's, making actions, and results.

You have been asked to Look at the data workbook and familiarize yourself with this data. You have also been asked to create a visual report that will show the data in the form of charts and maps using Tableau to the cliens requirements. You will also need to consider data protection and computer missuse policies.

First Task

Policies and Procedures

The first part of your assignments will be to outline what policies need to be adhered to when working with data.


You are going to be working with 'The Wealth of nations' data. Investigate by researching the internet or looking back at your notes to tell us what and why these policies need to be adhered to while you are using this data. Also tell us why it is important to be aware of these rules as a data analyst .

Second task

Excel

You will be working with 'The Wealth of nations' data which is in the week five folder under day 1 – student resources

<https://justit831.sharepoint.com/:x:/s/DataAnalyticsProgramme-NewStandards/EVK1dsCfWvZMpvJzG9QaQk8B1nxx7hYR0KtGfbzJauf94g?e=CR1LFE>

Documents > General > Week 5 Workshop Assignment Data Visualisation > Day 1 > 1. Morning Session > **Student files** 

  The Wealth of nations.xlsx  2 minutes ago Amanda Weaver

The data

Open the excel table and familiarise your self with its content. You will notice that there are three tabs. We will be working with the first tab GDP for the excel work.

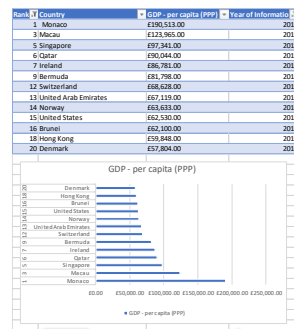
GDP (Gross domestic product)

Life Expectancy

Smartphones

GDP Tasks

1. Set a password to protect the workbook
2. Highlight column C and change the data to display in British Pound symbol
3. Turn the GDP sheet into a table.
4. Filter the table to display only the information for 2019
5. Next create a chart that will only display the following data 'Rank, Country and GDP - per capita (PPP)'. The chart can be anything as long as it is suitable.
6. Using your creative skills edit the chart
 - a. Add a title
 - b. Add X and Y axis labels
 - c. Make the chart visually pleasing
7. Move the chart to a new sheet tab and label with a suitable name
8. Create a sort for the top 20 highest ranking counties
9. Next create a new Bar chart to display the 20 highest ranking countries from your sort and then move the chart to be underneath the table, as shown below.



10. Colour the background by highlighting the area underneath the table as shown below. Find the add a fill colour icon and select a colour.

