

Assignment 1 Data Visualization

[GLA 16]
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DATE SUBMITTED: 29/07/2023

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Research

What policies need to be adhered to when working with data? Why do these policies need to be adhered to while you are using this data?

As an individual working with data, I must adhere to various policies to ensure responsible and ethical handling of information. These policies play a crucial role in safeguarding the privacy, security, and integrity of the data we work with. The reason why each of these policies is essential:

Data Privacy Policy: This policy guides me on how to manage personal information with utmost care. It emphasizes obtaining explicit consent before using or sharing any personal data. Respecting people's privacy is essential to build trust and maintain legal compliance.

Data Security Policy: Protecting data from unauthorized access and cyber threats is paramount. By following this policy, I can ensure that appropriate measures like encryption and access controls are in place to safeguard sensitive information from potential breaches.

Data Retention Policy: Knowing how long to retain data and when to dispose of it is vital. This policy prevents the accumulation of unnecessary data and reduces the risk of data breaches or misuse.

Data Access and Authorization Policy: By adhering to this policy, I can ensure that only authorized personnel have access to specific data based on their roles and responsibilities. This minimizes the risk of data falling into the wrong hands.

Data Sharing Policy: When data needs to be shared with third parties, following this policy ensures that it is done securely and in compliance with any legal or contractual obligations. It helps maintain confidentiality and prevents data leaks.

Data Governance Policy: This policy provides a clear framework for managing and overseeing data across the organization. Adhering to it ensures that data is meticulously organized, owned, and held accountable for.

Data Ethics Policy: Ethical considerations are crucial when working with data. Following this policy ensures that data is used responsibly, avoiding any biased or harmful decisions that could adversely impact individuals or groups.

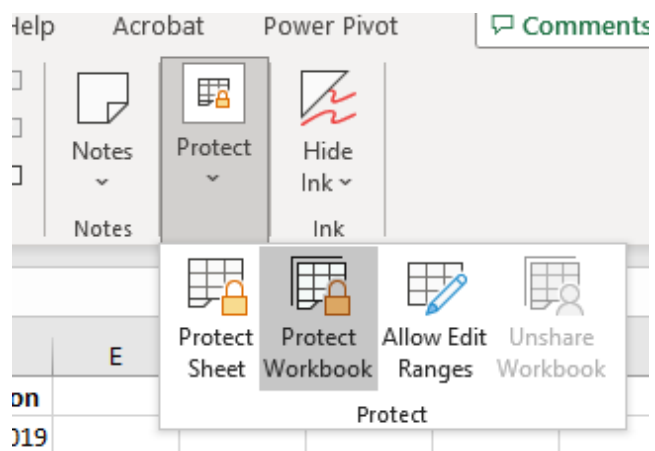
Data Breach Response Policy: Despite our best efforts, data breaches can occur. This policy outlines the steps to take in such situations, including containment, notification, and mitigation, to minimize damage and protect affected individuals.

By adhering to these policies diligently, I contribute to the overall protection of sensitive information, maintain the trust of stakeholders, and uphold the ethical standards necessary for responsible data handling. Regular training and awareness programs help me, and my colleagues always stay updated and compliant with these policies.

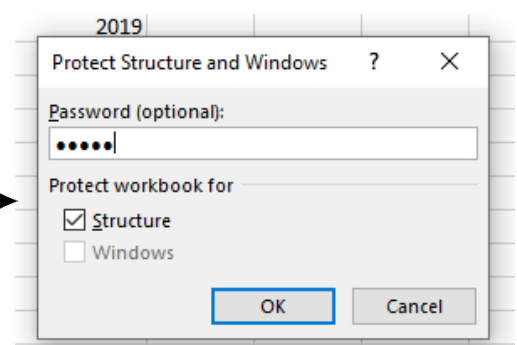
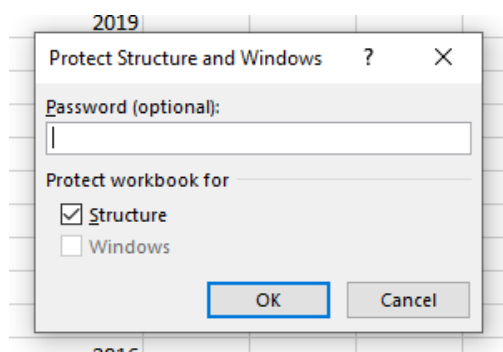
Working With Excel

Making a Workbook secure

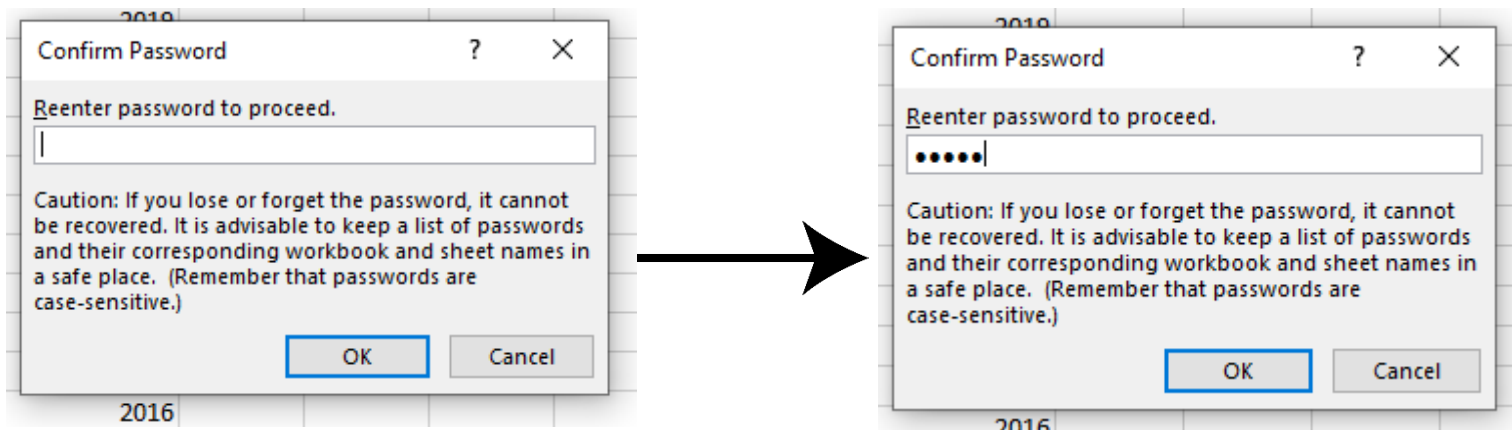
1. When opening the Excel Workbook, the first thing I did was protect the workbook by selecting the "Review" tab and then "Protect".



2. I set up a password that I can associate with the project



3. Then, I just have to confirm the password



Converting \$ to £

| Rank | Country | GDP - per capita (PPP) | Year of Information |
|------|---------------------------|------------------------|---------------------|
| 1 | Monaco | \$190,513.00 | 2019 |
| 2 | Liechtenstein | \$180,367.00 | 2018 |
| 3 | Macau | \$123,965.00 | 2019 |
| 4 | Luxembourg | \$115,874.00 | 2020 |
| 5 | Singapore | \$97,341.00 | 2019 |
| 6 | Qatar | \$90,044.00 | 2019 |
| 7 | Ireland | \$86,781.00 | 2019 |
| 8 | Isle of Man | \$84,600.00 | 2014 |
| 9 | Bermuda | \$81,796.00 | 2019 |
| 10 | Cayman Islands | \$73,549.00 | 2018 |
| 11 | Falkland Islands | \$70,800.00 | 2015 |
| 12 | Switzerland | \$68,628.00 | 2019 |
| 13 | United Arab Emirates | \$67,119.00 | 2019 |
| 14 | Norway | \$63,633.00 | 2019 |
| 15 | United States | \$62,530.00 | 2019 |
| 16 | Brunei | \$62,100.00 | 2019 |
| 17 | Gibraltar | \$61,700.00 | 2014 |
| 18 | Hong Kong | \$59,848.00 | 2019 |
| 19 | San Marino | \$59,439.00 | 2018 |
| 20 | Denmark | \$57,804.00 | 2019 |
| 21 | Netherlands | \$56,935.00 | 2019 |
| 22 | Jersey | \$56,600.00 | 2016 |
| 23 | Austria | \$56,188.00 | 2019 |
| 24 | Iceland | \$55,874.00 | 2019 |
| 25 | Germany | \$53,919.00 | 2019 |
| 26 | Sweden | \$53,240.00 | 2019 |
| 27 | Guernsey | \$52,500.00 | 2014 |
| 28 | Belgium | \$51,934.00 | 2019 |
| 29 | Taiwan | \$50,500.00 | 2017 |
| 30 | Andorra | \$49,900.00 | 2015 |
| 31 | Australia | \$49,854.00 | 2019 |
| 32 | Kuwait | \$49,854.00 | 2019 |
| 33 | Canada | \$49,031.00 | 2019 |
| 34 | Finland | \$48,668.00 | 2019 |
| 35 | Saudi Arabia | \$46,962.00 | 2019 |
| 36 | United Kingdom | \$46,659.00 | 2019 |
| 37 | Saint Pierre and Miquelon | \$46,200.00 | 2006 |

1. On the GPD Sheet, I convert the currency from American Dollars to British Pound Sterling by selecting column C (GDP - per capita (PPP)).

2. Then, in the "Home" tab, under the "Number" section in the drop down menu, I "Currency". For me, showed GBP, which is the currency that I needed.

Page Layout Formulas Data Review View Help

Font Paragraph Alignment Background Styles

Number

General No specific format

123

Number

GDP - per capita (PPP)

Currency

GDP - per capita (PPP)

Accounting

GDP - per capita (PPP)

Short Date

GDP - per capita (PPP)

Long Date

GDP - per capita (PPP)

Time

GDP - per capita (PPP)

Percentage

GDP - per capita (PPP)

Fraction

GDP - per capita (PPP)

Scientific

GDP - per capita (PPP)

Text

GDP - per capita (PPP)

More Number Formats...

GDP - per capita (PPP)

Year of Information

£190,513.00

£180,367.00

£123,965.00

£115,874.00

£97,341.00

£90,044.00

£86,781.00

£84,600.00

£81,796.00

£73,549.00

£70,800.00

£68,628.00

£67,119.00

£63,633.00

£62,530.00

£62,100.00

£61,700.00

£59,848.00

£59,439.00

£57,804.00

£56,935.00

£56,600.00

£56,188.00

£55,874.00

£53,919.00

£53,240.00

£52,500.00

£51,934.00

£50,500.00

£49,900.00

£49,854.00

£49,031.00

£48,668.00

£46,962.00

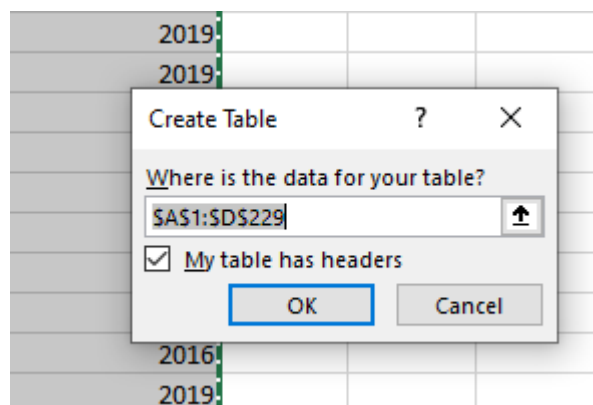
£46,659.00

£46,200.00

Converting the Data into a Table

1. The next step was converting the GPD sheet into a table. I used **ctrl + A** to select all the information and then **ctrl + T**, to create a table.

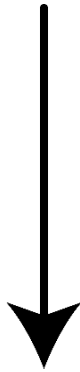
| | A | B | C | D | E |
|-----|-----|--------------------------|-----------|------|---|
| 198 | 197 | Haiti | £2,905.00 | 2019 | |
| 199 | 198 | Syria | £2,900.00 | 2015 | |
| 200 | 199 | Zimbabwe | £2,836.00 | 2019 | |
| 201 | 200 | Lesotho | £2,704.00 | 2019 | |
| 202 | 201 | Solomon Islands | £2,663.00 | 2019 | |
| 203 | 202 | Tanzania | £2,660.00 | 2019 | |
| 204 | 203 | Guinea | £2,562.00 | 2019 | |
| 205 | 204 | Yemen | £2,500.00 | 2017 | |
| 206 | 205 | Mali | £2,322.00 | 2019 | |
| 207 | 206 | Kiribati | £2,272.00 | 2019 | |
| 208 | 207 | Rwanda | £2,227.00 | 2019 | |
| 209 | 208 | Gambia | £2,223.00 | 2019 | |
| 210 | 209 | Ethiopia | £2,221.00 | 2019 | |
| 211 | 210 | Uganda | £2,187.00 | 2019 | |
| 212 | 211 | Burkina Faso | £2,178.00 | 2019 | |
| 213 | 212 | Afghanistan | £2,065.00 | 2019 | |
| 214 | 213 | Guinea-Bissau | £1,989.00 | 2019 | |
| 215 | 214 | Sierra Leone | £1,718.00 | 2019 | |
| 216 | 215 | North Korea | £1,700.00 | 2015 | |
| 217 | 216 | Madagascar | £1,647.00 | 2019 | |
| 218 | 217 | Eritrea | £1,600.00 | 2019 | |
| 219 | 218 | South Sudan | £1,600.00 | 2017 | |
| 220 | 219 | Togo | £1,597.00 | 2019 | |
| 221 | 220 | Chad | £1,580.00 | 2019 | |
| 222 | 221 | Liberia | £1,428.00 | 2019 | |
| 223 | 222 | Mozambique | £1,281.00 | 2019 | |
| 224 | 223 | Niger | £1,225.00 | 2019 | |
| 225 | 224 | DR Congo | £1,098.00 | 2019 | |
| 226 | 225 | Malawi | £1,060.00 | 2019 | |
| 227 | 226 | Central African Republic | £945.00 | 2019 | |
| 228 | 227 | Somalia | £875.20 | 2020 | |
| 229 | 228 | Burundi | £752.00 | 2019 | |
| 230 | | | | | |



Sorting the table to show only 2019 data.

1. Once the table has been generated, I want to filter out any year that is not 2019. I do that by clicking on the dropdown arrow next to "Year of Information" in cell D1 and deselecting all the years by clicking on the tick box next to "(Select All)". Then, I only tick the box next to 2019 and click on "OK".

| | A | B | C | D |
|----|------|----------------------|------------------------|---------------------|
| 1 | Rank | Country | GDP - per capita (PPP) | Year of Information |
| 2 | 1 | Monaco | £190, | |
| 3 | 2 | Liechtenstein | £180, | |
| 4 | 3 | Macau | £123, | |
| 5 | 4 | Luxembourg | £115, | |
| 6 | 5 | Singapore | £97,3 | |
| 7 | 6 | Qatar | £90,0 | |
| 8 | 7 | Ireland | £86,7 | |
| 9 | 8 | Isle of Man | £84,6 | |
| 10 | 9 | Bermuda | £81,7 | |
| 11 | 10 | Cayman Islands | £71,5 | |
| 12 | 11 | Falkland Islands | £70,8 | |
| 13 | 12 | Switzerland | £68,6 | |
| 14 | 13 | United Arab Emirates | £67,1 | |
| 15 | 14 | Norway | £63,6 | |
| 16 | 15 | United States | £62,5 | |
| 17 | 16 | Brunei | £62,1 | |
| 18 | 17 | Gibraltar | £61,7 | |
| 19 | 18 | Hong Kong | £59,8 | |
| 20 | 19 | San Marino | £59,4 | |
| 21 | 20 | Denmark | £57,8 | |
| 22 | 21 | Netherlands | £56,9 | |
| 23 | 22 | Jersey | £56,6 | |
| 24 | 23 | Austria | £56,188.00 | 2019 |
| 25 | 24 | Iceland | £55,874.00 | 2019 |
| 26 | 25 | Germany | £53,919.00 | 2019 |
| 27 | 26 | Sweden | £53,240.00 | 2019 |



| C | D |
|------------------------|---|
| GDP - per capita (PPP) | Year of Information |
| £190,000 | Sort Smallest to Largest |
| £180,000 | Sort Largest to Smallest |
| £123,000 | Sort by Color |
| £115,000 | Sheet View |
| £97,300 | Clear Filter From "Year of Information" |
| £90,000 | Filter by Color |
| £86,700 | Number Filters |
| £84,600 | Search |
| £81,700 | (Select All) |
| £71,500 | 2003 |
| £70,800 | 2004 |
| £68,600 | 2005 |
| £67,100 | 2006 |
| £63,600 | 2008 |
| £62,500 | 2014 |
| £62,100 | 2015 |
| £61,700 | 2016 |
| £59,800 | |
| £59,400 | |
| £57,800 | |
| £56,900 | |
| £56,600 | |
| £56,188.00 | |

| C | D |
|------------------------|---|
| GDP - per capita (PPP) | Year of Information |
| £190,000 | Sort Smallest to Largest |
| £180,000 | Sort Largest to Smallest |
| £123,000 | Sort by Color |
| £115,000 | Sheet View |
| £97,300 | Clear Filter From "Year of Information" |
| £90,000 | Filter by Color |
| £86,700 | Number Filters |
| £84,600 | Search |
| £81,700 | 2006 |
| £71,500 | 2008 |
| £70,800 | 2014 |
| £68,600 | 2015 |
| £67,100 | 2016 |
| £63,600 | 2017 |
| £62,500 | 2018 |
| £62,100 | 2019 |
| £61,700 | 2020 |
| £59,800 | |
| £59,400 | |
| £57,800 | |
| £56,900 | |
| £56,600 | |
| £56,188.00 | 2019 |

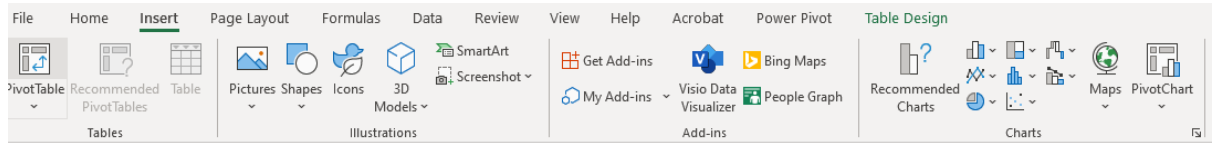
Creating a chart

1. I started off with selecting the data we would like to use, which, in this case is columns A, B and C.

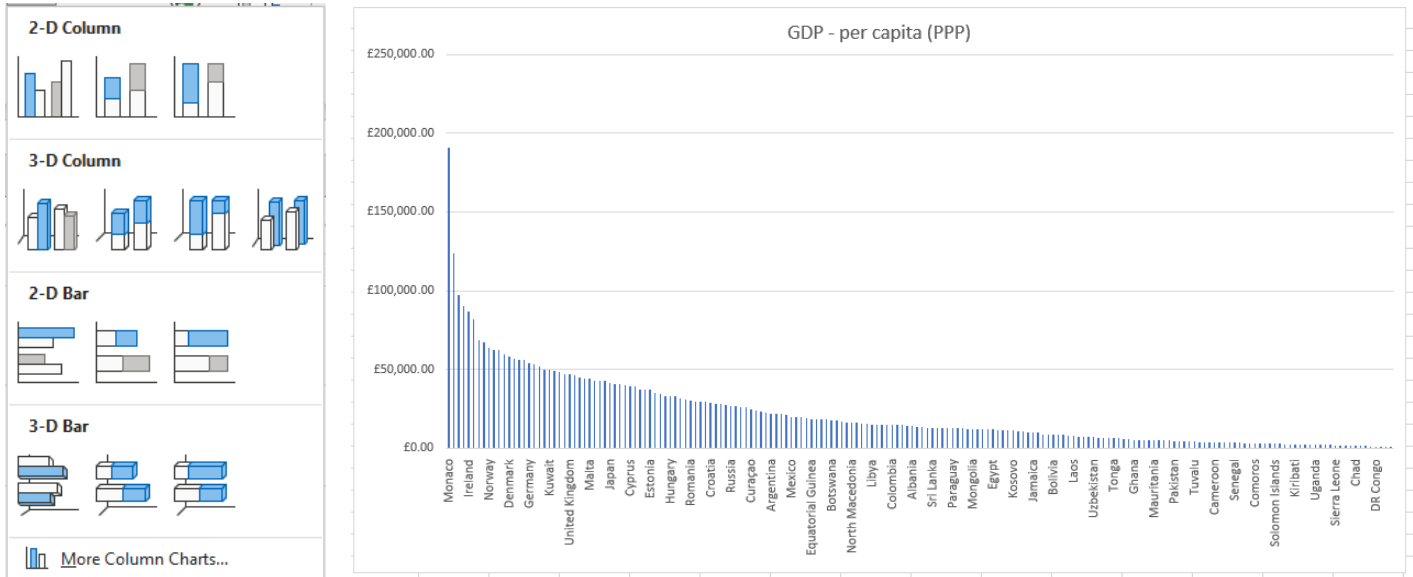
| | A | B | C | D |
|----|------|----------------------|------------------------|---------------------|
| 1 | Rank | Country | GDP - per capita (PPP) | Year of Information |
| 2 | 1 | Monaco | £190,513.00 | 2019 |
| 4 | 3 | Macau | £123,965.00 | 2019 |
| 6 | 5 | Singapore | £97,341.00 | 2019 |
| 7 | 6 | Qatar | £90,044.00 | 2019 |
| 8 | 7 | Ireland | £86,781.00 | 2019 |
| 10 | 9 | Bermuda | £81,798.00 | 2019 |
| 13 | 12 | Switzerland | £68,628.00 | 2019 |
| 14 | 13 | United Arab Emirates | £67,119.00 | 2019 |
| 15 | 14 | Norway | £63,633.00 | 2019 |
| 16 | 15 | United States | £62,530.00 | 2019 |
| 17 | 16 | Brunei | £62,100.00 | 2019 |
| 19 | 18 | Hong Kong | £59,848.00 | 2019 |
| 21 | 20 | Denmark | £57,804.00 | 2019 |
| 22 | 21 | Netherlands | £56,935.00 | 2019 |
| 24 | 23 | Austria | £56,188.00 | 2019 |
| 25 | 24 | Iceland | £55,874.00 | 2019 |
| 26 | 25 | Germany | £53,919.00 | 2019 |
| 27 | 26 | Sweden | £53,240.00 | 2019 |
| 29 | 28 | Belgium | £51,934.00 | 2019 |
| 32 | 31 | Australia | £49,854.00 | 2019 |
| 33 | 32 | Kuwait | £49,854.00 | 2019 |
| 34 | 33 | Canada | £49,031.00 | 2019 |
| 35 | 34 | Finland | £48,668.00 | 2019 |
| 36 | 35 | Saudi Arabia | £46,962.00 | 2019 |
| 37 | 36 | United Kingdom | £46,659.00 | 2019 |
| 39 | 38 | France | £46,184.00 | 2019 |
| 40 | 39 | Bahrain | £45,011.00 | 2019 |
| 41 | 40 | EU | £44,436.00 | 2019 |
| 42 | 41 | Malta | £44,032.00 | 2019 |
| 43 | 42 | New Zealand | £42,888.00 | 2019 |
| 44 | 43 | South Korea | £42,765.00 | 2019 |
| 45 | 44 | Italy | £42,492.00 | 2019 |
| 47 | 46 | Japan | £41,429.00 | 2019 |
| 48 | 47 | Spain | £40,903.00 | 2019 |
| 49 | 48 | Czech Republic | £40,862.00 | 2019 |
| 50 | 49 | Israel | £40,145.00 | 2019 |
| 52 | 51 | Cyprus | £39,545.00 | 2019 |

←
→
GDP
Life Expectancy
Smartphones
Sheet1
+

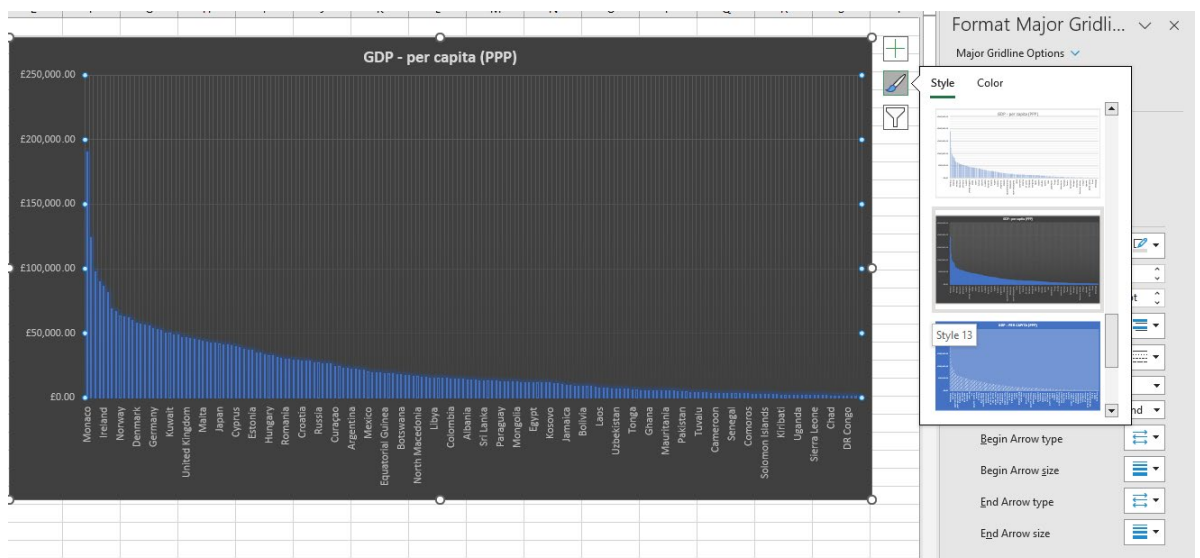
2. In the “Insert” tab, in the “charts” area, I can choose an appropriate style of chart to use.



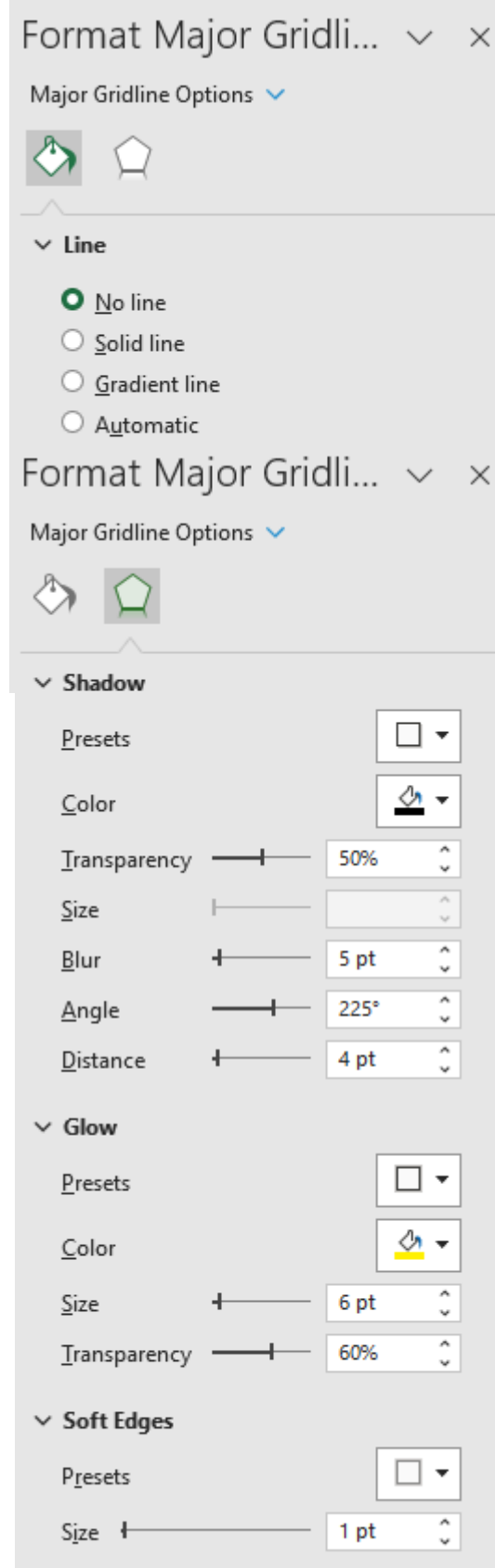
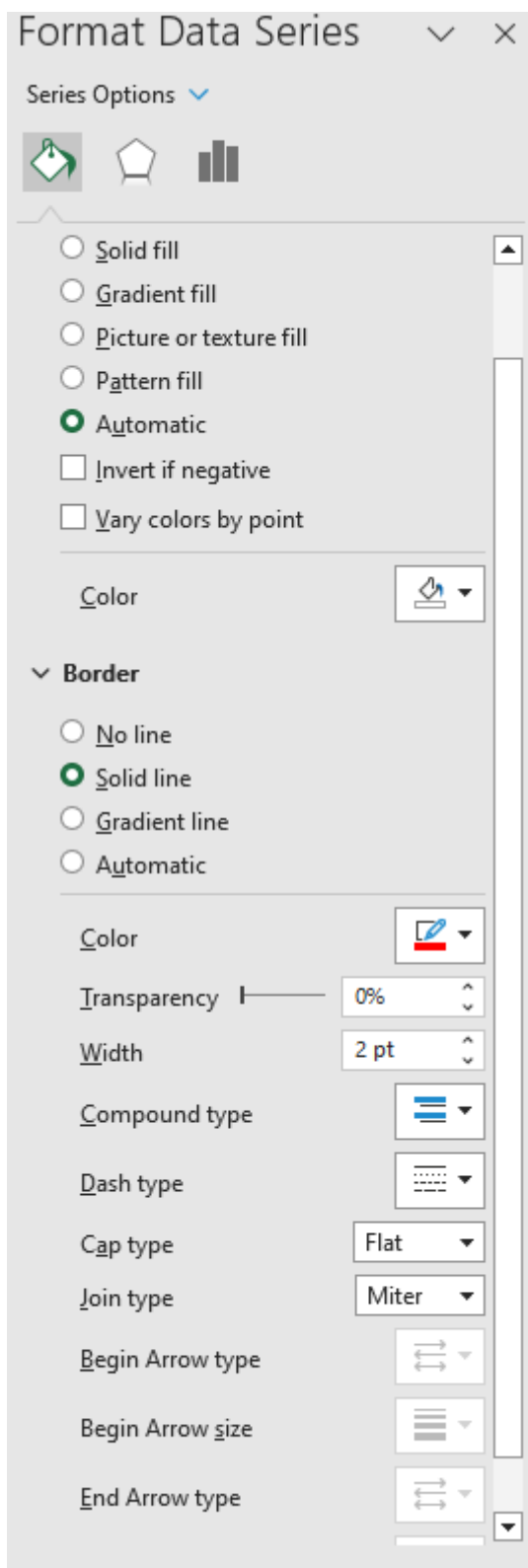
3. The chart I wanted to use for this visualisation was a 2D Column chart.



4. I then chose a basic style that I am comfortable working with.

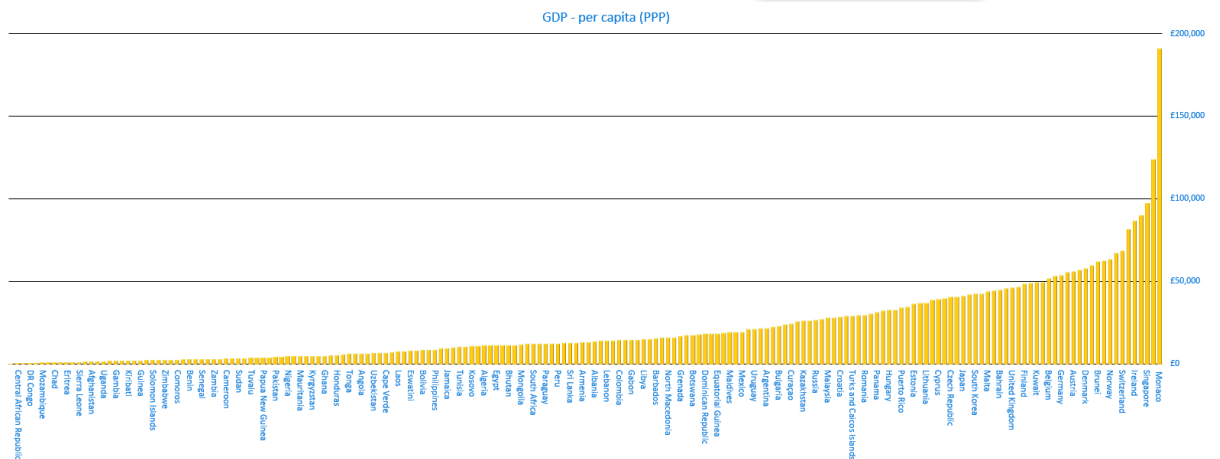
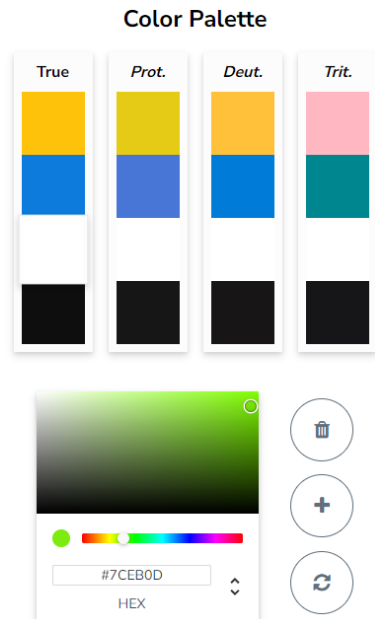


5. The next thing I did was change a few of the settings on the chart until I was happy with the look of the 2D Column Chart.



Even though this data would not be shown to the stakeholder, I was keeping in mind that the stakeholder is colourblind. Therefore, I used a tool to create a colour palette which would be appropriate for this client.

I used [THIS](#) website for this colour palette.

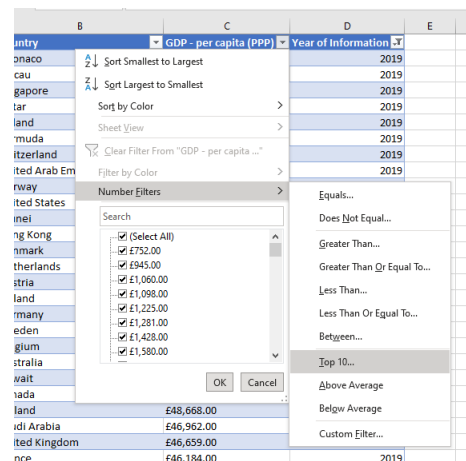
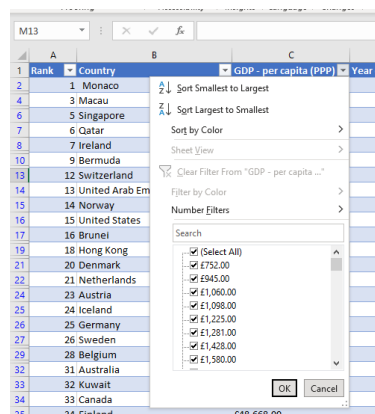


In the end, I settled on this as the style of my 2D Column chart.

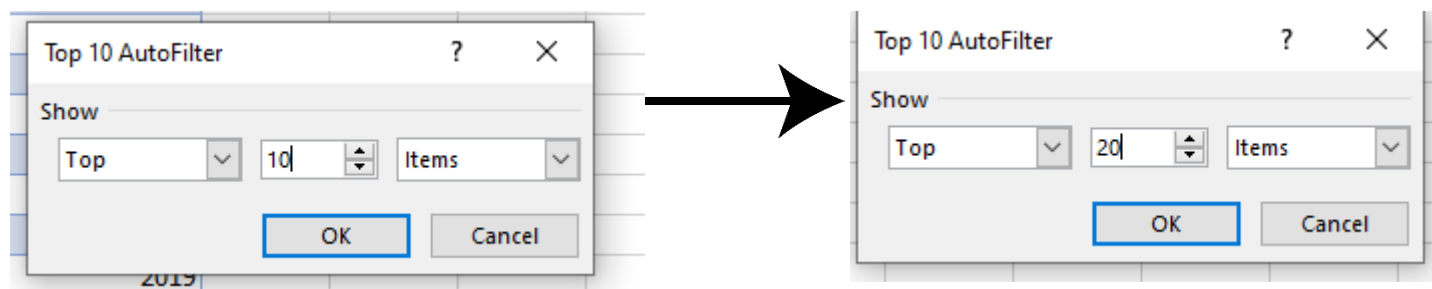
I then moved the chart to its own sheet, which I called "GDP chart all data".

Sorting the table to shown only the Top 20

1. By clicking on the dropdown next to "GDP - per capita (PPP)" in cell C1 I selected



“Number Filters” and then “Top 10”. Here, I just changed it from 10 to 20.

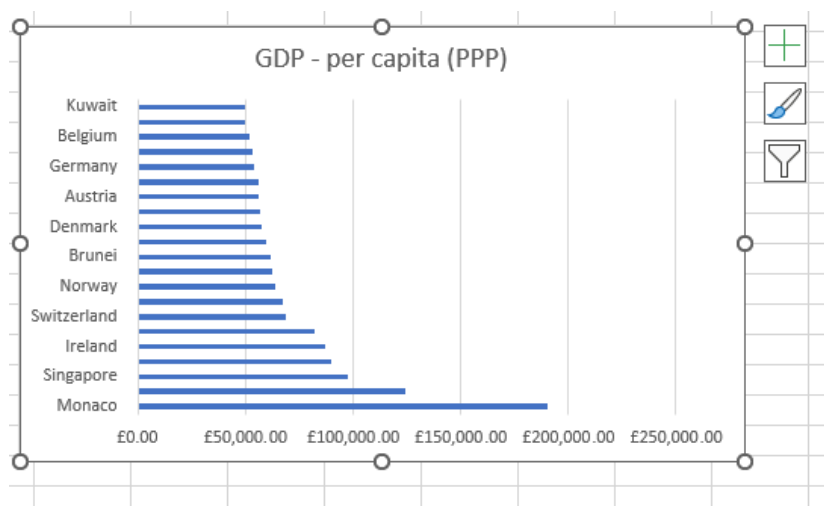


| | | | |
|----|----------------------|-------------|------|
| 1 | Monaco | £190,513.00 | 2019 |
| 3 | Macau | £123,965.00 | 2019 |
| 5 | Singapore | £97,341.00 | 2019 |
| 6 | Qatar | £90,044.00 | 2019 |
| 7 | Ireland | £86,781.00 | 2019 |
| 9 | Bermuda | £81,798.00 | 2019 |
| 12 | Switzerland | £68,628.00 | 2019 |
| 13 | United Arab Emirates | £67,119.00 | 2019 |
| 14 | Norway | £63,633.00 | 2019 |
| 15 | United States | £62,530.00 | 2019 |
| 16 | Brunei | £62,100.00 | 2019 |
| 18 | Hong Kong | £59,848.00 | 2019 |
| 20 | Denmark | £57,804.00 | 2019 |
| 21 | Netherlands | £56,935.00 | 2019 |
| 23 | Austria | £56,188.00 | 2019 |
| 24 | Iceland | £55,874.00 | 2019 |
| 25 | Germany | £53,919.00 | 2019 |
| 26 | Sweden | £53,240.00 | 2019 |
| 28 | Belgium | £51,934.00 | 2019 |
| 31 | Australia | £49,854.00 | 2019 |
| 32 | Kuwait | £49,854.00 | 2019 |

This gave me a list of 21 countries as Australia and Kuwait have the same GDP, therefore, they are on the same level. The only reason they do not have the same rank is because ranks are assigned in this database by sorting by GDP and then alphabetically.

Bar chart

1. From this database. I made a Bar chart the same way I created the Column chart earlier.



Format Axis

Axis Options ☒ Text Options

> Axis Options

> Tick Marks

> Labels

> Number

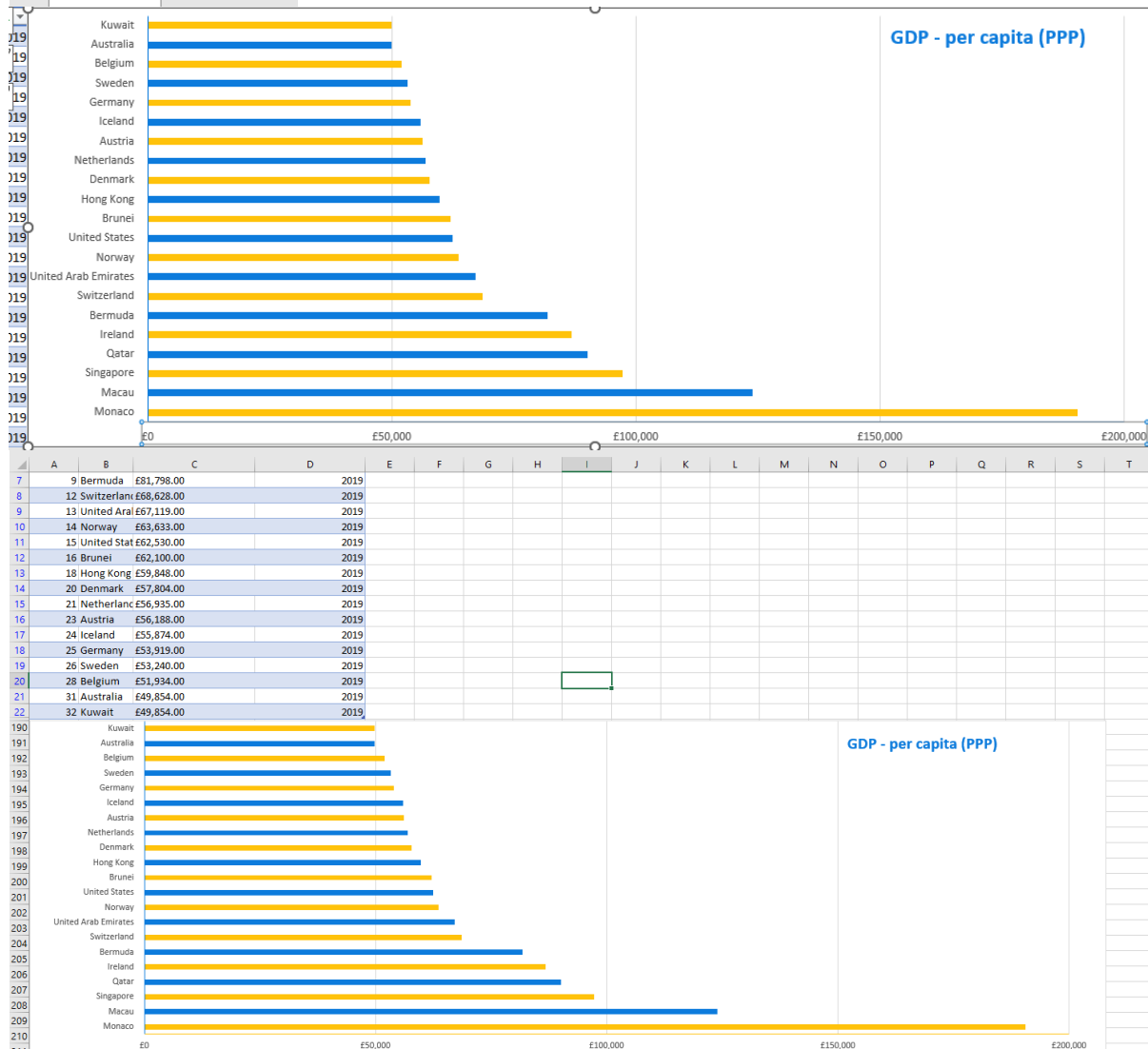
Category:

Decimal places:

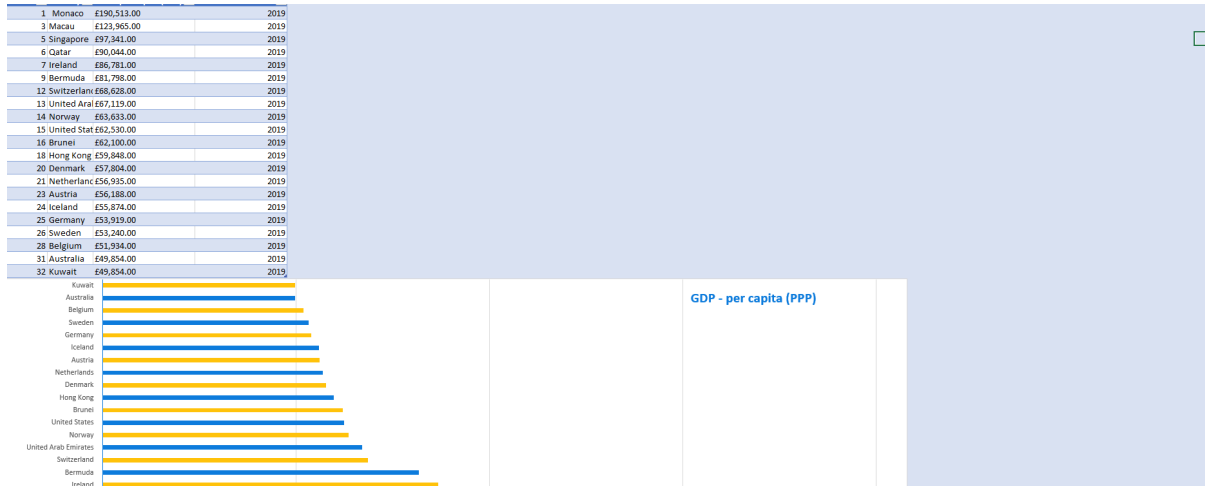
Symbol:

Negative numbers:

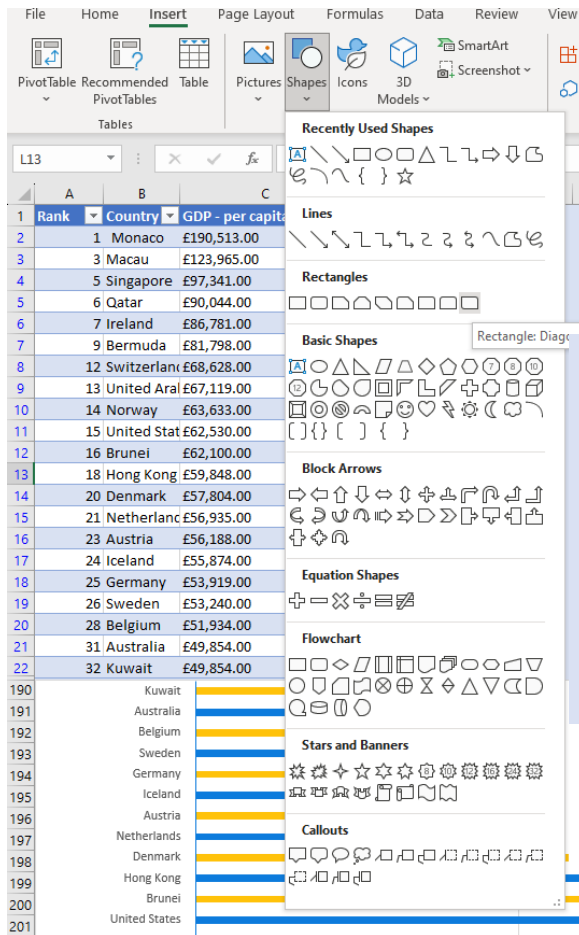
I then customised my bar chart until I was happy with the layout and colours, the same way I had already done with the Column chart. Then, I moved my chart from next to my table to underneath it, as instructed in the assignment document.



As I wanted a nice base for the buttons, I coloured my full sheet instead of just underneath the table as requested in the assignment document.



Macros



1. From the “Shapes” tab in “Insert”, I selected a shape I wanted my buttons to be. Then, I coloured them using a colour from my colour-blind palette and I added text to them. Once I was happy with the look of the button, I duplicated it twice and changed the text on the new ones to Save and Print as those were the functions I will be giving them.



Copy

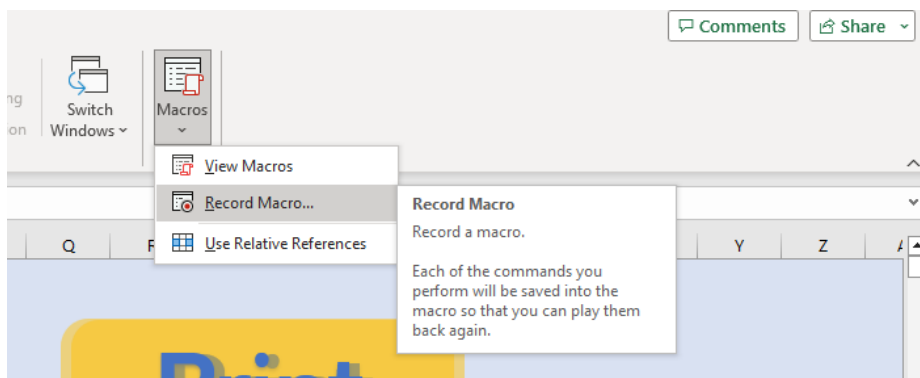
Save

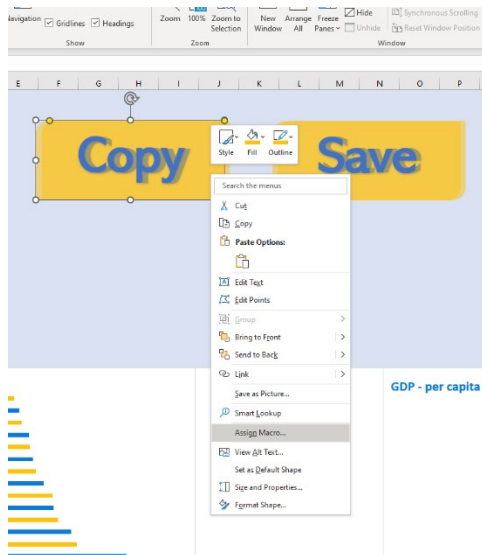
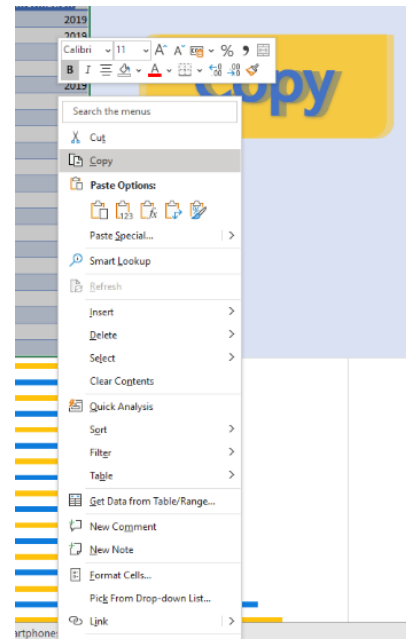
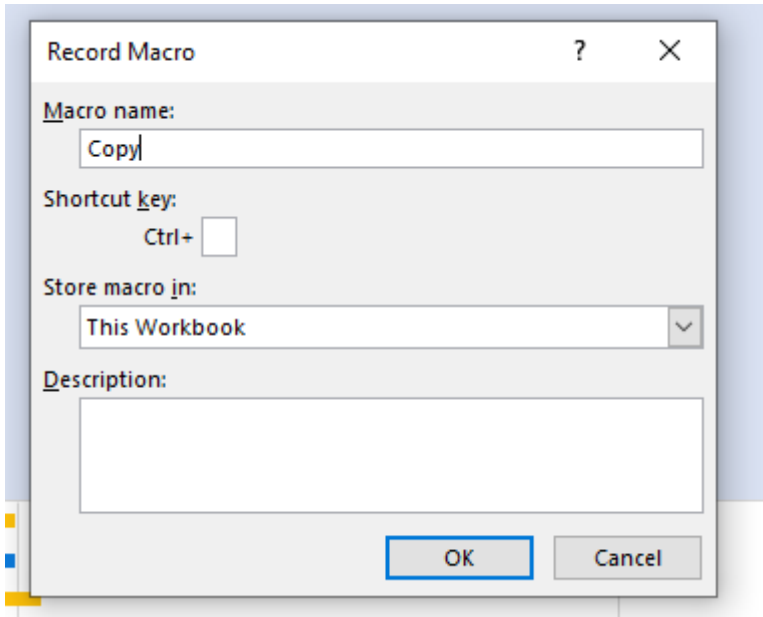
Print

2. This is the macro script that was generated by recording the macros:

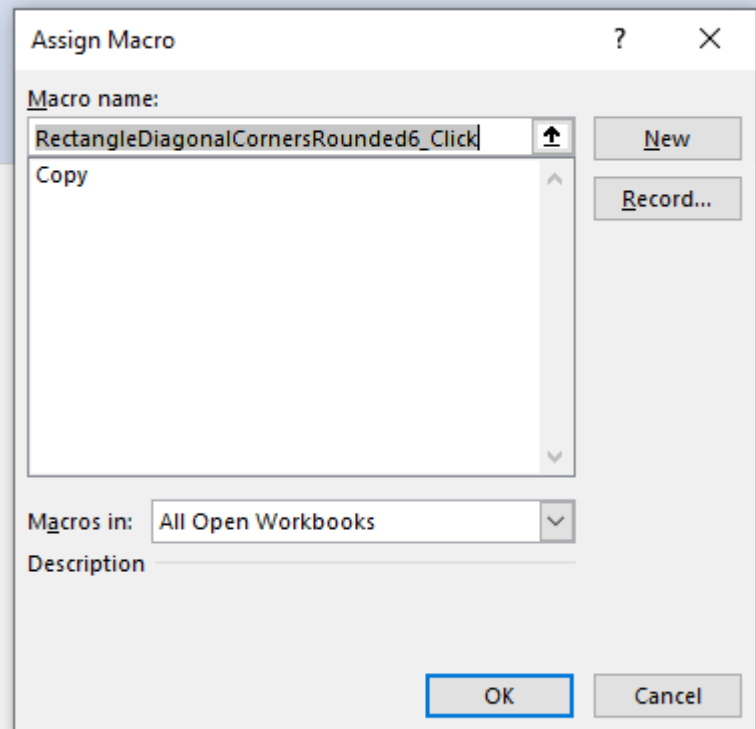
```
Sub Copy()
'
' Copy Macro
'
'
'
Range("B1:D22").Select
Selection.Copy
End Sub
Sub Save()
'
' Save Macro
'
'
'
ChDir "C:\Users\████████Desktop"
ActiveWorkbook.SaveAs Filename:= _
"C:\Users\████████Desktop\The Wealth of nations.xlsm", FileFormat:= _
xlOpenXMLWorkbookMacroEnabled, CreateBackup:=False
End Sub
Sub Print()
'
' Print Macro
'
'
'
ActiveWindow.SelectedSheets.PrintOut Copies:=1, Collate:=True, _
IgnorePrintAreas:=False
End Sub
```

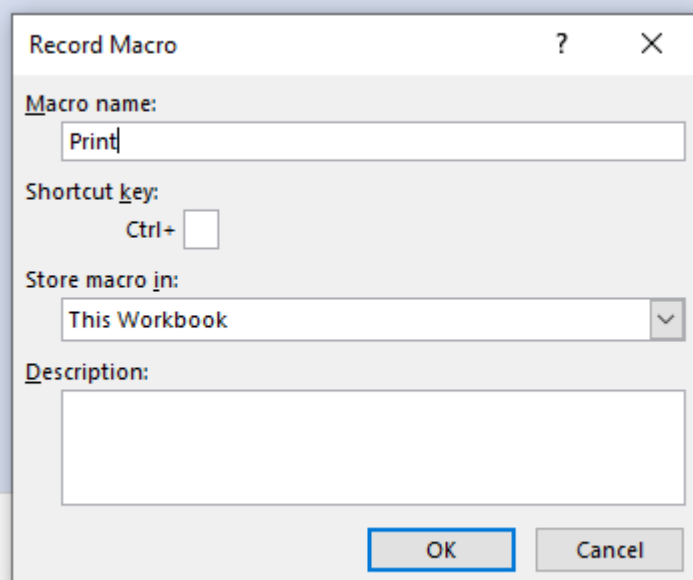
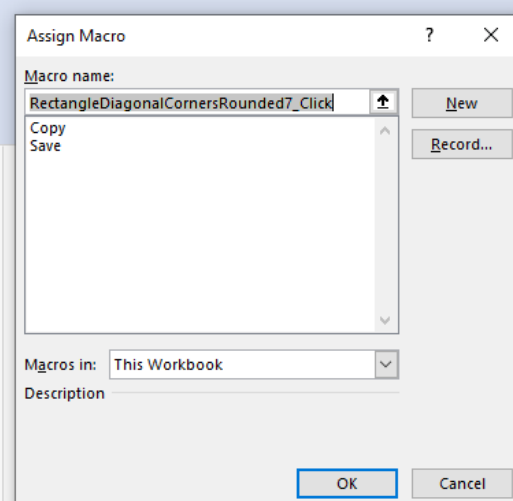
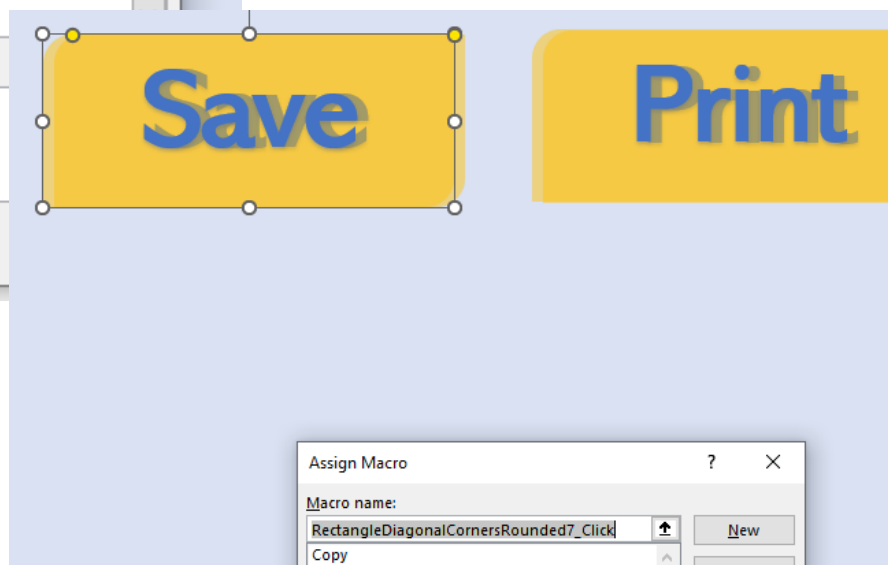
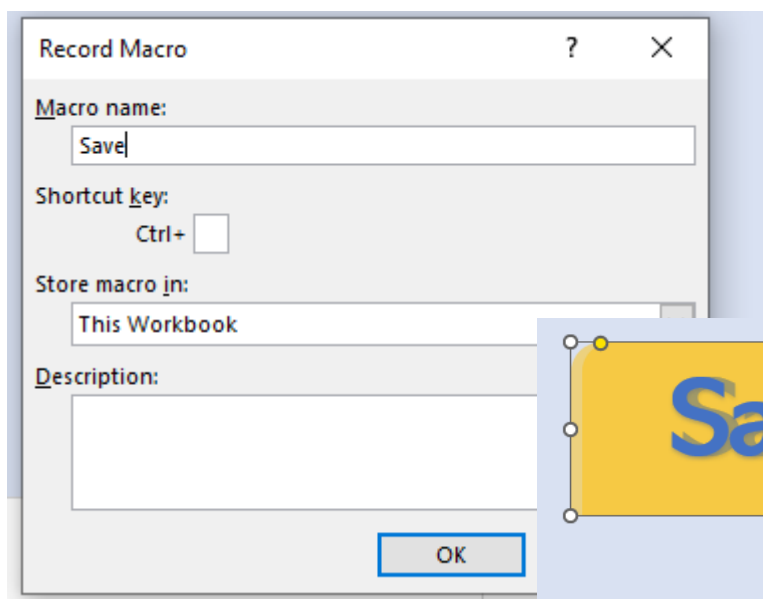
3. This was achieved by selecting “Macro” from the “View” tab and then “Record Macro” for each function. Then, every Macro was named according to what its function would be (Save, Print and Copy).
4. Once a Macro has been saved, I assigned it to the corresponding button by right-clicking on the shape and selecting “Assign Macro” and then selecting the correctly corresponding one.





| Country | GDP - per capita (PPP) | Year of Information |
|----------------|------------------------|---------------------|
| 1 Monaco | 2190,313.00 | 2019 |
| 2 Marcus | 1123,965.00 | 2019 |
| 3 Singapore | 597,341.00 | 2019 |
| 4 Qatar | 690,044.00 | 2019 |
| 5 Ireland | 686,781.00 | 2019 |
| 6 Bermuda | 681,798.00 | 2019 |
| 7 Switzerland | 668,628.00 | 2019 |
| 8 United Arab | 667,119.00 | 2019 |
| 9 Norway | 663,633.00 | 2019 |
| 10 United Stat | 662,530.00 | 2019 |
| 11 Brunei | 662,100.00 | 2019 |
| 12 Hong Kong | 659,448.00 | 2019 |
| 13 Denmark | 657,804.00 | 2019 |
| 14 Netherlands | 656,933.00 | 2019 |
| 15 Austria | 656,188.00 | 2019 |
| 16 Iceland | 655,874.00 | 2019 |
| 17 Germany | 653,919.00 | 2019 |
| 18 Sweden | 653,240.00 | 2019 |
| 19 Belgium | 651,934.00 | 2019 |
| 20 Australia | 649,854.00 | 2019 |
| 21 Kuwait | 648,854.00 | 2019 |
| 190 Kuwait | | |
| 191 Australia | | |
| 192 Belgium | | |
| 193 Sweden | | |





The Table

1. This is the Information that the “Copy” macro copies.

| Country | GDP - per capita (PPP) | Year of Information |
|----------------------|------------------------|---------------------|
| Monaco | £190,513.00 | 2019 |
| Macau | £123,965.00 | 2019 |
| Singapore | £97,341.00 | 2019 |
| Qatar | £90,044.00 | 2019 |
| Ireland | £86,781.00 | 2019 |
| Bermuda | £81,798.00 | 2019 |
| Switzerland | £68,628.00 | 2019 |
| United Arab Emirates | £67,119.00 | 2019 |
| Norway | £63,633.00 | 2019 |
| United States | £62,530.00 | 2019 |
| Brunei | £62,100.00 | 2019 |
| Hong Kong | £59,848.00 | 2019 |
| Denmark | £57,804.00 | 2019 |
| Netherlands | £56,935.00 | 2019 |
| Austria | £56,188.00 | 2019 |
| Iceland | £55,874.00 | 2019 |
| Germany | £53,919.00 | 2019 |
| Sweden | £53,240.00 | 2019 |
| Belgium | £51,934.00 | 2019 |
| Australia | £49,854.00 | 2019 |
| Kuwait | £49,854.00 | 2019 |

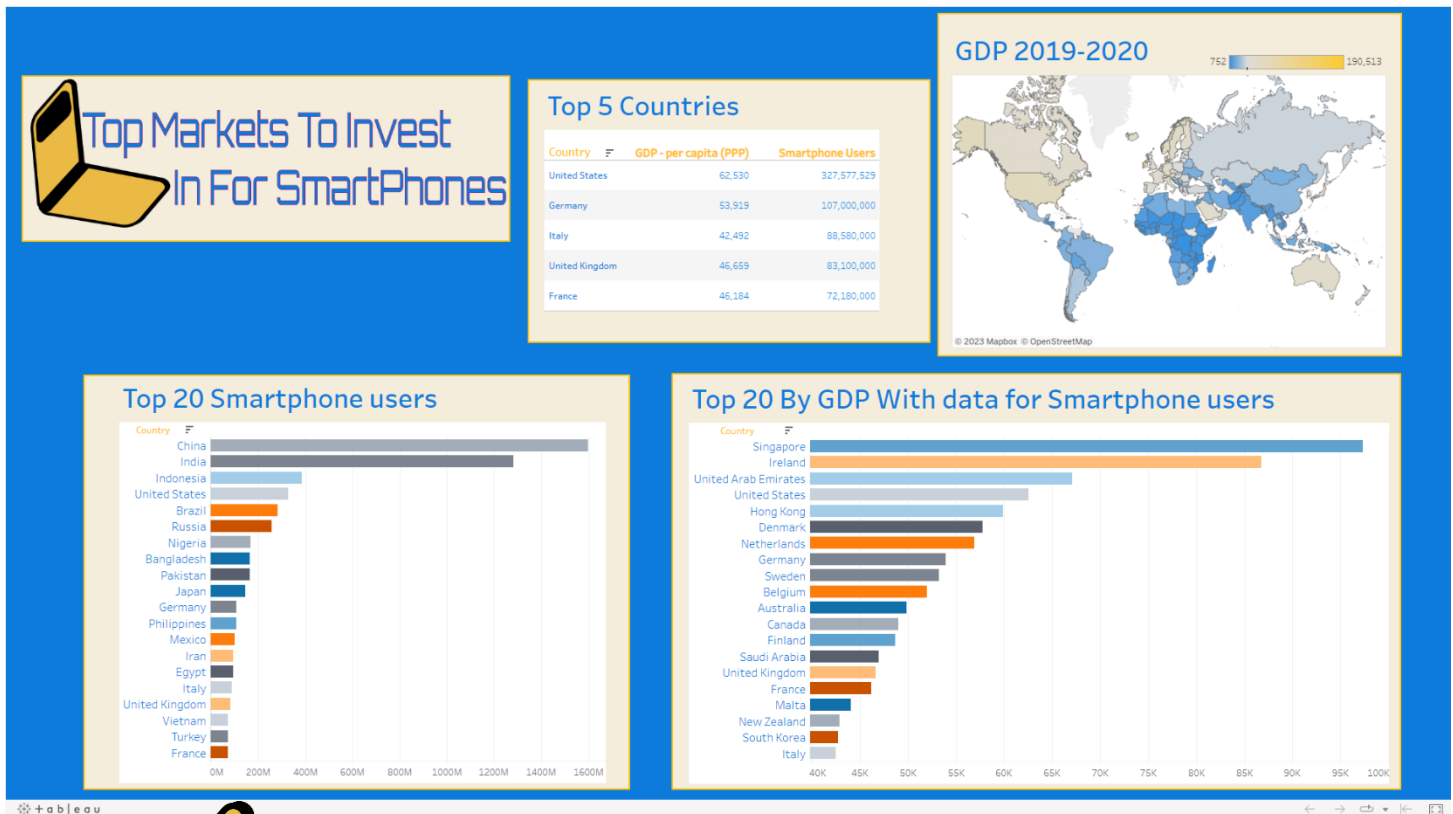
2. Next, I create a new Sheet and paste this same information in it. Then, from the “View” tab, I select “Page Layout” and then I add the requested header and footer. After that, I changed the formatting to make the sheet more visually appealing.

The screenshot displays the Microsoft Excel interface. The active worksheet is 'Sheet1', which contains the data from the table above. The data is formatted with blue headers and alternating row colors. The Excel ribbon shows the 'View' tab selected, with 'Page Layout' and 'Formulas' options visible. The status bar at the bottom shows 'GDP - Top 20' and 'Sheet1'.

| Country | GDP - per capita (PPP) | Year of Information |
|----------------------|------------------------|---------------------|
| Monaco | £190,513.00 | 2019 |
| Macau | £123,965.00 | 2019 |
| Singapore | £97,341.00 | 2019 |
| Qatar | £90,044.00 | 2019 |
| Ireland | £86,781.00 | 2019 |
| Bermuda | £81,798.00 | 2019 |
| Switzerland | £68,628.00 | 2019 |
| United Arab Emirates | £67,119.00 | 2019 |
| Norway | £63,633.00 | 2019 |
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| Brunei | £62,100.00 | 2019 |
| Hong Kong | £59,848.00 | 2019 |
| Denmark | £57,804.00 | 2019 |
| Netherlands | £56,935.00 | 2019 |
| Austria | £56,188.00 | 2019 |
| Iceland | £55,874.00 | 2019 |
| Germany | £53,919.00 | 2019 |
| Sweden | £53,240.00 | 2019 |
| Belgium | £51,934.00 | 2019 |
| Australia | £49,854.00 | 2019 |
| Kuwait | £49,854.00 | 2019 |

Tableau

Based on the data the stakeholder had provided me with and their request to look at the top 20 ranked countries, I have managed to create a report highlighting the top five countries they should invest in for the smartphone market. This is based off the number of potential users and the potential highest returns financially. I used my Adobe Illustrator skills to make my own, custom title. For the backgrounds, I used containers. I did this to show all of my abilities I can use to improve my visuals.



Top Markets To Invest In For SmartPhones

Top Markets To Invest In For SmartPhones