- 1. Download the candidate, constituency and count details files from Brightspace. This exercise will merge the three files and plot graphs from it in the following steps.
- 2. Using the candidate csv, load the data into a data frame called canddf (Please note, because of the accents (e.g. Eamon Ó Cuiv), you will need to use a latin1 file encoding). Check if you need to change anything else.
 - a. Display the Surname and First.Name of candidates from the Wexford constituency.
 - b. How many candidates are there in the Laois constituency?
 - c. How many constituencies are there?
- 3. Download the Constituency details file from Brightspace, load it into a dataframe called constdf.
 - a. How many constituencies are there in this source?
- 4. Assuming the constituency source is correct, look at the data and make a decision about any inconsistencies.
- 5. Using the count csv, load the data into a data frame called countdf.
 - a. How many candidates are there in the Laois constituency according to countdf?
- 6. Check the constituency data for consistency with the new count data. If you find inconsistencies, make a decision on how you will handle them.
- 7. Check the candidate data for consistency with the count data.
- 8. Merge the data sources as you see fit, to end up with a new data frame df, with columns:Candidate.First.Name, Candidate.surname, Constituency.Name, Constituency.Number, Count.Number, Gender, Number.Of.Candidates, Number.of.Seats, Party.Abbreviation, Party, Quota, Result, Seats.in.Constituency, Total.Votes, Votes
- 9. Write a function that takes a parameter of the constituency name and returns a dataframe with the candidate's first and surnames, the constituency name, gender, party and party abbreviation for all elected candidates in that constituency.
- 10. Using df, create plots to show the solutions to the following:
 - a. In a constituency (pick one), show the spread of elected candidates across the parties.

- b. Treating the top 5 parties as individual parties and the remaining parties as 'other', repeat the exercise from part a.
- c. Across all constituencies, show the number of candidates from each party that was elected.