

**CA ASSIGNMENT:** REPEAT MS Excel Report and Infographic Assignment

**ISSUE DATE:** 12/07/2021

**SUBMISSION DATE:** 30/07/2021

**LECTURER:** Dr Ger Loughnane

**TYPE OF ASSESSMENT:** **Individual** Project: Statistical Report

**% OF TOTAL MARKS:** 100%

**WORD LENGTH FOR REPORT:** Max 1000 words (*excluding* tables, graphs and charts)

**SUBMISSION OF ASSESSMENT:**

- **Soft copy** submitted via Turnitin/Moodle only, no hardcopy required.
- Submission must be completed by **Friday 30<sup>th</sup> July** to meet the submission deadline, be marked, and avoid late submission penalties

**GENERAL REQUIREMENTS FOR STUDENTS:**

1. Presentation and the communication of the content is extremely important.
2. **The content of your work will be checked for originality** – do not copy work from the internet or others, but you may *reference* work from the internet.
3. Students should submit along with their poster a document which shows their name, their student ID and the assignment title.
4. Students are expected to take responsibility for their own time-management; co-ordination of group work; management of IT; etc. Extensions will only be given in Exceptional Circumstances. Extensions will not be granted for conflict or lack of co-ordination between group members; IT problems; or any other circumstance which should be the responsibility of students.
5. Note the submission requirements above to avoid a penalty.
6. Students should keep a copy of their submission.

## ASSIGNMENT REQUIREMENTS:

**This reassessment project is a *subset* of the whole group project undertaken previously, focussing only on the analytics and interpretation of results that was in the previous group project. You only need to write up an Abstract, Methods and Results section.**

**Data Source: “ESS Ireland Data CA 2019” MS Excel File** – available on Moodle

**NB:** A supplementary materials file containing the Codebook for this dataset (**PDF File, Filename: “Codebook ESS Data CA 2019”**) is also available on Moodle. It is essential that you consult this file in order to understand the dataset presented.

The data selected for use in this assignment is sourced from the European Social Survey (ESS) which provides data on a range of issues across the EU community. The dataset presented to you comprises a sample of persons aged 15 and over, resident within private households in Ireland who participated in the survey. The dataset contains a selected set of 21 variables from the overall ESS dataset, concerning demographic factors as well as health, activity, work and wellbeing variables. **The codebook is essential in terms of understanding the dataset, so please read it carefully.**

Note: For the purposes of this assignment, I have created a cut-down version of this dataset which contains only 21 variables, adds bespoke data for this project, and removes cases that have missing data for relevant quantitative variables. Also, for simplicity, the number of respondents (i.e. the size of the sample) is reduced to 100.

You have been asked to consider **at least 8 variables** of your choice from the dataset, and to use the data to **create a statistical report and supporting infographic** about **any topic/questions of your choice**.

Of the minimum of 8 variables, **at least one variable must be quantitative and at least one variable must be categorical/ordinal**.

**This reassessment project is a *subset* of the whole group project undertaken previously, focussing on the analytics and interpretation of results that was in the group project. As part of the project you will need to perform the following tasks:**

- (a) Compile a **report** to include:
  - a. An **Abstract**, containing a brief justification of your chosen topic of analysis, approx. 200 words.
  - b. A **Methods** section, containing a brief description of the statistical Methods used, approx. 200 words.
  - c. A **Results** section, approx. 600 words containing:
    - (i) key results in tabular and graphical form.
    - (ii) A brief discussion/analysis of main findings, creating a narrative around the results.

- (iii) Data work and Statistical Analysis you will need to execute the following tasks:
- At least 6 different graphics** of your choice (bear in mind the scale of measurement when selecting). At least 2 of the graphics should be scatterplots with a regression equation. **NOTE: All graphs must be original productions. Students may NOT use reproductions of graphs from other sources.**
  - Representation of at least **2 variables** in table format, featuring two variables of your choice.
  - Descriptive Statistics including measure(s) of central tendency and measure(s) of dispersion for at least **4 selected variables** with appropriate narrative.
  - Regression analysis and significance testing for **a minimum of 2 relationships (including  $R^2$ , interpretation)**

**INDICATIVE MARKING SCHEME:**

Requirements	Marks Allocated
<b>Report</b>	<b>100</b>
Graphs	<b>10</b>
Tables	<b>10</b>
Descriptive Statistics	<b>10</b>
Inferential Statistics (e.g. T-Tests, Regression)	<b>25</b>
Narrative, analysis and interpretation of findings	<b>30</b>
Clarity of analysis and presentation of results	<b>5</b>
Level of detail/complexity of the analysis	<b>10</b>
<b>Total Marks</b>	<b>100</b>