

**Assignment for PMIM102J**

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| **Module number:** | PMIM102J |
| **Module name:** | Scientific Computing and Health Care |
| **Title of assignment:** | *Database Project January* |
| **Student ID number:** | *445348* |
| **Word count:** |  |
| **Declaration:** | I understand the following conditions which apply throughout this course:   1. I confirm that I am the sole author of this work. 2. I understand that proof reading by a third party is discouraged, but if used, records should be available as per guidelines. 3. I understand the need for academic integrity and that all my submitted work will adhere to its principles. 4. I understand that the teaching team will take measures to deter, detect and report any academic misconduct. 5. I agree to my work being submitted to the TurnItIn academic database. 6. I understand the importance of assignment deadlines and the need to seek help in good time where personal circumstances interrupt my work. |
| **Please copy and paste this declaration onto the front of the submission.** | |

PMIM102J: Scientific Computing and Health Care – Database Project

Student ID: 445348

# Introduction:

This guide aims to give you a general overview of that R script presented to you. The program will consist of three r scrips, Main.R, Logic.R and DBS\_Connection.R.

The scripts designed to take full advantage of the R Studio IDE and require a PostgreSQL connection with PGAdmin. If these are currently not on your machine, please download them here:

R Studio: Link 1

Postgres: Link 2

This documentation takes an assumption that you have access to the gp\_data\_up\_to\_2015 available for your required Postgres database version.

# Code Overview

This program can be run either directly from the source run or by executing the script line by line within the IDE. However, depending on what method you use will depend on when the plots and tables will show in the plot and view areas. The console prints outs will happen as they are happening within the script sequence. Note, the general table exploring at the beginning of the script is better when the user runs the code manually as they are then also able to enter in tables that they would like. Pre-populated details have been added for instances where the source run method gets selected.

Additional pages required are:

If these packages are not installed on your machine, then please go to the Logic.R file and uncomment out (remove the #) in front of the required install.packages(X).