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##### RISK PREDICTION - A PRACTICAL EXAMPLE USING R ############

# INTRODUCTION

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# This script was written to accompany the Risk Prediction

# e-Learning for Health module. It may be helpful to have a copy

# of the flow diagram which is available to download from within

# the module. You will also need to download the accompanying

# BirthsData.csv. This was adapted from the MASH data availabl

# for download at https://www.sheffield.ac.uk/mash/statistics/datasets.

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############################# THE SCENARIO ###############################################

# Health professionals are concerned about the high-rate of babies born with low birthweight

# and have contacted you to do some research to help understand the issue.

# The health professionals have provided you with a dataset containing data with different

# baby measurements taken at birth, along with characteristics collected about their parents.

# (This is a hypothetical dataset constructed purely for the purpose of this module).

# GETTING STARTED

# 1) INSTALL R and RStudio

# If you haven't already done so:

# Download the latest version of RStudio - https://rstudio.com/products/rstudio/download/

# and the latest version of R - https://www.r-project.org/

# (RStudio is a front end application which makes it easier to work with R).

# Option A: CREATING THE R PROJECT (MANUALLY, WITH THE .csv AND .R)

# A1) Create a working folder on your computer or network drive

# A2) Save this script and the .csv file to the folder

# A3) Create a new R project in RStudio:

# -- File --> New Project -- > Existing directory --> navigate

# to the folder you created in step 2) above

# Now you should see your .csv file and R script in the "Files" pane in the bottom

# right corner of your RStudio.

# Now you are ready to get started.

# Option B: OPENING THE EXISTING R PROJECT (GIT) [LINK / GIT TO BE ADDED. USE OPTION A FOR NOW]

# If using Git, you can either choose to download the project manually or - if familiar with Git and R integration - clone it into R Studio:

# B) Download manually

# B1) Access the git via the url provided

# B2) Click on the green button saying 'Code'

# B3) Click 'Download ZIP'

# B4) Unzip as folder in appropriate location

# B5) In R Studio, choose File --> Open Project ... --> navigate to .Rproj file in unzipped folder

# or

# C) Clone from Git

# C1) Access the git via the url provided

# C2) Click on the green button saying 'Code' and copy the 'HTTPS' link provided

# C 3) In R Studio, choose File --> New Project --> Version Control --> Git and paste the url provided. Click 'Create new project'