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# -----
# R programming statements for h206if2 data
#
# This file contains programming statements needed to import the ASCII data
# file (.dat) into R. The R programming language has the capability to produce
# appropriate standard errors for estimates from a survey with a complex sample
# design such as the Medical Expenditure Panel Survey (MEPS).
#
# The input file is the ASCII data file (h206if2.dat) supplied in this PUF
# release, which can be extracted from the .zip file supplied at the MEPS
# website: https://meps.ahrq.gov/mepsweb/data_stats/download_data_files.jsp
#
# This code imports the MEPS data into R as a data frame called 'h206if2'.
#
# Note that additional packages are needed to successfully run this code. To
# install these packages, run the 'install.packages' function (shown below).
# Once installed, the packages can be called using the 'library' function.
# Packages only need to be installed once, but they must be called using the
# 'library' function every time a new R session is started.
#
# Two options are available to run this code:
#
# 1. Copy and paste the code into an interactive R session.
#
#     The user must first download the ASCII (.dat) file from the MEPS website
#     and save it to a local directory, which must be defined in the
#     'meps_path' variable below. In this example, the local directory is
#     called "C:/MEPS". Note that the path structure will differ on Mac and PC.
#
# 2. Call this code directly from an interactive R session.
#
#     (a) If the ASCII (.dat) file has already been downloaded from the MEPS
#     website and saved to a local directory, the following code can be run
#     (after re-defining the 'meps_path' variable to point to the location
#     of the h206if2.dat file.)
#
#         meps_path <- "C:/MEPS/h206if2.dat"
#         source("https://meps.ahrq.gov/mepsweb/data_stats/download_data/pufs/h206i/h206if2ru.txt")
#         head(h206if2) # view data
#
#     (b) Alternatively, the ASCII (.dat) file can be downloaded directly from
#     the MEPS website. The following code can be used to download and
#     import the h206if2 data into R without having to manually download,
#     unzip, and store the file on your local computer.
#
#         url <- "https://meps.ahrq.gov/mepsweb/data_files/pufs/h206if2dat.zip"
#         download.file(url, temp <- tempfile())
#
#         meps_path <- unzip(temp, exdir = tempdir())
#         source("https://meps.ahrq.gov/mepsweb/data_stats/download_data/pufs/h206i/h206if2ru.txt")
#
#         unlink(temp) # Unlink to delete temporary file
#
#         head(h206if2) # view data
#
# -----

# DEFINE 'meps_path' -----
# 'meps_path' should point to the file path of the ASCII file (h206if2.dat)
# Here, the 'exists' function checks whether meps_path is already defined. This
# feature is useful if calling this file from an external source.

if(!exists("meps_path"))
  meps_path = "C:/MEPS/h206if2.dat"

# INSTALL PACKAGES -----
# Uncomment and run this portion if packages are not yet installed
#
# install.packages("readr")

# LOAD PACKAGES -----
# Run this for every new R session

library(readr)

# DATA FILE INFO -----

# Define start and end positions to read fixed-width file

pos_start <-
  c(1, 11, 43, 59, 75, 76)

pos_end <-
  c(10, 42, 58, 74, 75, 77)

# Define variable names and types ('c' = character, 'n' = 'numeric')

var_names <-
  c("DUPERSID", "RXLKIDX", "EVNTIDX", "LINKIDX", "EVENTYPE",
    "PANEL")

var_types <-
  c("c", "c", "c", "c", "n", "n")

var_types <- setNames(var_types, var_names)

# IMPORT ASCII (.dat) file -----

h206if2 <- read_fwf(
  meps_path,
  col_positions =
    fwf_positions(
      start = pos_start,
      end   = pos_end,
      col_names = var_names),
  col_types = var_types)

# OPTIONAL: save as .Rdata file for easier loading -----
# Run this to save a permanent .Rdata file in the local working directory
#
# save(h206if2, file = "h206if2.Rdata")

# -----
# NOTES:
#
# 1. This program has been tested on R version 3.6.0
#
# 2. This program will create a temporary data frame in R called 'h206if2'.
#     You must run the 'save' command to permanently save the data to a local
#     folder
#
# -----
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