exerciceSeance3

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## Installation des librairies

install.packages("gsheet")

## Installing package into '/cloud/lib/x86\_64-pc-linux-gnu-library/4.4'  
## (as 'lib' is unspecified)

install.packages("dplyr")

## Installing package into '/cloud/lib/x86\_64-pc-linux-gnu-library/4.4'  
## (as 'lib' is unspecified)

install.packages("tidyr")

## Installing package into '/cloud/lib/x86\_64-pc-linux-gnu-library/4.4'  
## (as 'lib' is unspecified)

install.packages("readr")

## Installing package into '/cloud/lib/x86\_64-pc-linux-gnu-library/4.4'  
## (as 'lib' is unspecified)

library(gsheet)  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(tidyr)  
library(readr)

# Etape 1 : Importer via un csv

gdp <- read.csv("/cloud/project/chapter6data.csv", na.strings = c("","NA"))

# Étape 2 : Importer via une feuille de calcul

locations <- gsheet2tbl(" https://docs.google.com/spreadsheets/d/1nehKEBKTQx11LZuo5ZJFKTVS0p5y1ysMPSOSX\_m8dS8/edit?usp=sharing")

# Etape 3 : Supprimer la colonne: X1 du bloc de données gdp

gdp$x1<- NULL  
  
colnames(gdp)

## [1] "X1" "country" "X1960" "X1961" "X1962" "X1963" "X1964"   
## [8] "X1965" "X1966" "X1967" "X1968" "X1969" "X1970" "X1971"   
## [15] "X1972" "X1973" "X1974" "X1975" "X1976" "X1977" "X1978"   
## [22] "X1979" "X1980" "X1981" "X1982" "X1983" "X1984" "X1985"   
## [29] "X1986" "X1987" "X1988" "X1989" "X1990" "X1991" "X1992"   
## [36] "X1993" "X1994" "X1995" "X1996" "X1997" "X1998" "X1999"   
## [43] "X2000" "X2001" "X2002" "X2003" "X2004" "X2005" "X2006"   
## [50] "X2007" "X2008" "X2009" "X2010" "X2011" "X2012" "X2013"   
## [57] "X2014" "X2015" "X2016" "X2017"

# Step 4 : Filter the data

gdp2 <- filter(gdp, country == "Canada" | country == "Japan" | country == "United States" | country == "Belgium" | country == "France")

# Etape 5 : “Rallonge” les données

gdp3 <- pivot\_longer(gdp2, cols = -country, names\_to = "year", values\_to ="gdp")

# Étape 6 : Fusionner les jeux de données

gdp4 <- left\_join(locations, gdp3, c("country"))