**R-driven Power BI: Demo notes**

## Importing data

## 

From a *csv* file:

* Get Data > Text/CSV
* Browse to your file

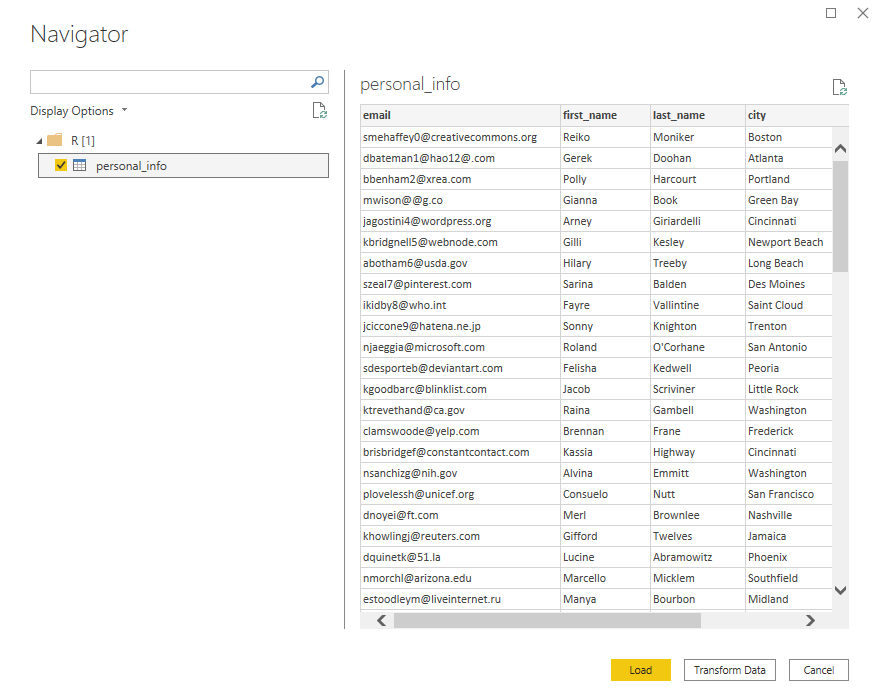
From an R Script:

* Get Data > More > R Script.
* A script box will appear. Read in the file. We will import a *csv*  file, but this is a great way to read in API data.

library(tidyverse)

personal\_info <- read\_csv('https://raw.githubusercontent.com/stringfestdata/satrday-r-power-bi/main/data/personal\_info.csv')

personal\_info

* From here you can check on the data frame you want and load it in.  
  

## Viewing relationships

One of Power BI’s most celebrated features is it relational data modeler.

* Click
* Browse to your file

## Data profiling and ETL

Power BI also has an in-built ETL and data profiling tool called Power Query. This is another place where R scripts can be used.

* Go to View. This gives us a bit of info about the data (a nice touch).
* We see there are some blank values. Power BI does not have very statistically-informed ways to handle, so this is another use case.

From an R Script:

## Conducting the analysis

Let’s run an R script to conduct the analysis.

* We are going to end up with a table containing the “tidied” results of the analysis, so it’s best to duplicate the query so we have a second table (thus not impacting the original data)
* We’ll run the paired samples t-test

## Inserting the visualization

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* We’ll run the paired samples t-test