

Luxemburg Project

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0.1 Luxemburg Data Project

```
library(dplyr)####patates
library(purrr)
library(readxl)
library(stringr)
library(janitor)
```

0.2 Gettting Data

```
url <- "https://github.com/b-rodrigues/rap4all/raw/master/datasets/vente-maison-2010-2021."

# Shortened url

#url <- "https://is.gd/1vvBAc"

raw_data <- tempfile(fileext = ".xlsx")
```

```

download.file(url, raw_data, method = "auto", mode = "wb")

sheets <- excel_sheets(raw_data)

read_clean <- function(..., sheet){

  read_excel(..., sheet = sheet) |>

  mutate(year = sheet)

}

raw_data <- map(

  sheets,

  ~read_clean(raw_data,

               skip = 10,

               sheet = .)

) |>

bind_rows() |>

clean_names()

```

New names:

```

* `*` -> `*...3`
* `*` -> `*...4`

```

Let's see the neat data:

```
raw_data
```

A tibble: 1,343 x 9

```
commune    nombre_doffres prix_moyen_annonce_e~1 prix_moyen_annonce_a~2 year
```

	<chr>	<dbl>	<chr>	<chr>	<chr>
1	Bascharage	192	593698.310000000006	3603.57	2010
2	Beaufort	266	461160.29	2902.76	2010
3	Bech	65	621760.22	3280.51	2010
4	Beckerich	176	444498.68	2867.88	2010
5	Berdorf	111	504040.85	3055.99	2010
6	Bertrange	264	795338.87	4266.46	2010
7	Bettembou~	304	555628.29	3343.22	2010
8	Bettendorf	94	495074.38	3235.26	2010
9	Betzdorf	119	625914.47	3343.05	2010
10	Bissen	70	516465.57	3321.65	2010

```

# i 1,333 more rows
# i abbreviated names: 1: prix_moyen_annonce_en_courant,
#   2: prix_moyen_annonce_au_m2_en_courant
# i 4 more variables: bech <chr>, x12 <dbl>, x3 <chr>, x4 <chr>

```

Some variables has their original names and we will change them to English.

```

raw_data <- raw_data |>

  rename(

    locality = commune,

    n_offers = nombre_doffres,

    average_price_nominal_euros = prix_moyen_annonce_en_courant,

    # average_price_m2_nominal_euros = prix_moyen_annonce_au_m2_en_courant,

    average_price_m2_nominal_euros = prix_moyen_annonce_au_m2_en_courant

  ) |>

  mutate(locality = str_trim(locality)) |>

  select(year, locality, n_offers, starts_with("average"))

raw_data |>
  filter(grepl('Luxembourg', locality)) |>
  count(locality)

```

```
# A tibble: 2 x 2
  locality      n
  <chr>      <int>
1 Luxembourg      9
2 Luxembourg-Ville 2
```

```
raw_data |>
  filter(grepl('P.tange', locality)) |>
  count(locality)
```

```
# A tibble: 2 x 2
  locality      n
  <chr>      <int>
1 Petange      9
2 Pétange      2
```

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

0.3 Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

```
[1] 2
```

You can add options to executable code like this

```
[1] 4
```

The `echo: false` option disables the printing of code (only output is displayed).