August 8, 2022

The results below are generated from an R script.

```
#### dataframe des attributs des sommets ####
df_nodes = data.frame(Anthroponyme = V(g)$name)
df_nodes <- cbind(df_nodes,</pre>
                    NumEscroete = rep(NA,nrow(df_nodes)),
                    NumConnetablie = rep(NA,nrow(df_nodes)),
                    RdV = rep(NA,nrow(df_nodes)),
                    NumRente = rep(NA,nrow(df_nodes)))
for (i in 1:length(df_nodes$Anthroponyme)) {
  nrente <- df_debiteur_rente[df_debiteur_rente[,1]==df_nodes$Anthroponyme[i],2]</pre>
  if (length(nrente) != 0) {
    nrente <- nrente[1]</pre>
    from main \leftarrow df main[df main$numRente == nrente, c(1,3,5,6)]
    from_main <- from_main[!is.na(from_main$numRente),]</pre>
    df_nodes[i,] <- c(df_nodes$Anthroponyme[i],from_main)</pre>
  }
## Completion de df_nodes sur base des sommets voisins ##
for (i in 1:length(df_nodes$Anthroponyme)) {
  if(is.na(df_nodes$NumRente[i])){
    d \leftarrow distances(g, v = V(g)[V(g)]name == df_nodes$Anthroponyme[i]], to = V(g))==1
    adj_node <- V(g)[d]$name
    v_escroetes_adj <- NULL</pre>
    v_connetablies_adj <- NULL
    v_RdV_adj <- NULL</pre>
    for (j in adj node) {
      escroete_adj <- df_nodes$NumEscroete[df_nodes$Anthroponyme == j]
      v_escroetes_adj <- c(v_escroetes_adj,escroete_adj)</pre>
      connetablie_adj <- df_nodes$NumConnetablie[df_nodes$Anthroponyme == j]</pre>
      v_connetablies_adj <- c(v_connetablies_adj,connetablie_adj)</pre>
      Rdv_adj <- df_nodes$RdV[df_nodes$Anthroponyme == j]</pre>
      v_RdV_adj <- c(v_RdV_adj,Rdv_adj)</pre>
    if (length(unique(v_connetablies_adj)) == 1) { #toutes les valeurs sont identiques
      df_nodes$NumConnetablie[i] <- v_connetablies_adj[1]</pre>
    } else if (length(unique(v_connetablies_adj)) >1 ) { #eqalite -> NA
      df_nodes$NumConnetablie[i] <- NA</pre>
    if (length(unique(v_escroetes_adj)) == 1) {
      df_nodes$NumEscroete[i] <- v_escroetes_adj[1]</pre>
    } else if (length(unique(v_escroetes_adj)) >1 ) {
      df_nodes$NumEscroete[i] <- NA</pre>
```

```
if (length(unique(v_RdV_adj)) == 1) {
    df_nodes$RdV[i] <- v_RdV_adj[1]
} else if (length(unique(v_RdV_adj)) >1 ) {
    df_nodes$RdV[i] <- NA
}
}

vertex_attr(g) <- df_nodes
</pre>
```

The R session information (including the OS info, R version and all packages used):

```
sessionInfo()
## R version 4.0.3 (2020-10-10)
## Platform: x86_64-apple-darwin17.0 (64-bit)
## Running under: macOS 12.3.1
##
## Matrix products: default
## LAPACK: /Library/Frameworks/R.framework/Versions/4.0/Resources/lib/libRlapack.dylib
## locale:
## [1] fr_BE.UTF-8/fr_BE.UTF-8/fr_BE.UTF-8/C/fr_BE.UTF-8/fr_BE.UTF-8
## attached base packages:
## [1] stats
                 graphics grDevices datasets utils
                                                                   base
##
## other attached packages:
## [1] RColorBrewer_1.1-3 concaveman_1.1.0
                                              ggforce_0.3.3
                                                                  scales_1.2.0
## [5] ggrepel_0.9.1
                           readxl_1.3.1
                                              tidygeocoder_1.0.5 ggraph_2.0.5.9000
## [9] ggmap_3.0.0
                           igraph_1.3.0
                                              comparator_0.1.2 forcats_0.5.1
## [13] dplyr_1.0.9
                           purrr_0.3.4
                                              readr_2.1.2
                                                                 tidyr_1.2.0
## [17] tibble_3.1.8
                           ggplot2_3.3.6
                                              tidyverse_1.3.1
                                                                 stringr_1.4.0.9000
##
## loaded via a namespace (and not attached):
## [1] bitops_1.0-7
                           fs_1.5.2
                                                lubridate_1.8.0
                                                                    httr_1.4.2
## [5] tools_4.0.3
                           backports_1.4.1
                                                utf8_1.2.2
                                                                     R6_2.5.1
## [9] DBI_1.1.2
                           colorspace_2.0-3
                                                withr_2.5.0
                                                                     sp_1.5-0
                                                curl_4.3.2
                                                                     compiler_4.0.3
## [13] tidyselect_1.1.2
                            gridExtra_2.3
## [17] cli_3.3.0
                            rvest_1.0.2
                                                xml2_1.3.3
                                                                     proxy_0.4-26
## [21] digest 0.6.29
                            jpeg 0.1-9
                                                pkgconfig 2.0.3
                                                                    highr 0.9
## [25] dbplyr_2.1.1
                                                                    farver_2.1.1
                            rlang_1.0.4
                                                rstudioapi_0.13
## [29] generics 0.1.3
                            jsonlite 1.8.0
                                                magrittr_2.0.3
                                                                     Rcpp 1.0.9
## [33] munsell_0.5.0
                            fansi_1.0.3
                                                viridis_0.6.2
                                                                    lifecycle_1.0.1
## [37] stringi_1.7.6
                            MASS 7.3-53
                                                plyr_1.8.7
                                                                     grid 4.0.3
## [41] crayon_1.5.0
                            lattice_0.20-41
                                                graphlayouts_0.8.0 haven_2.4.3
## [45] hms_1.1.1
                            knitr_1.37
                                                pillar_1.8.0
                                                                     rjson_0.2.21
## [49] reprex_2.0.1
                            glue_1.6.2
                                                evaluate_0.15
                                                                     renv_0.15.4
## [53] modelr_0.1.8
                            png_0.1-7
                                                vctrs_0.4.1
                                                                     tzdb_0.2.0
## [57] tweenr_1.0.2
                            RgoogleMaps_1.4.5.3 cellranger_1.1.0
                                                                     gtable_0.3.0
## [61] polyclip_1.10-0
                            clue_0.3-60
                                                assertthat_0.2.1
                                                                     xfun_0.30
## [65] broom_0.7.12
                            tidygraph_1.2.1
                                                viridisLite_0.4.0
                                                                     tinytex_0.37
## [69] cluster_2.1.0
                            ellipsis_0.3.2
Sys.time()
```