

Data preparation

Socioeconomic and Gender Disparities: A Multi-Country Study

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1 Presentation

This is the data preparation code for the project “Socioeconomic and Gender Disparities: A Multi-Country Study.” The prepared dataset is `SOGEDI_dataset_V1.sav`

In this repository, data processing and cleaning exclude countries with insufficient sample sizes for robust statistical analysis, retaining only observations from Argentina, Chile, Colombia, Spain, and Mexico. However, for anyone wishing to use all cases and countries from the original dataset, it can be accessed at the following [link](#).

2 Libraries

First, we load the necessary libraries. In this case, we use `pacman::p_load` to load and call libraries in one move.

```
if (! require("pacman")) install.packages("pacman")

pacman::p_load(tidyverse,
               sjmisc,
               here,
               sjlabelled,
               haven,
               naniar,
               car,
```

```

      kableExtra)

options(scipen=999)
rm(list = ls())

```

3 Data

We load the database from the the Github [repository](https://github.com/sogedi-project/sogedi-data) project.

```

sogedi_db <- haven::read_sav(url("https://github.com/sogedi-project/sogedi-data/raw/re
glimpse(sogedi_db)

```

```

Rows: 4,386
Columns: 283
$ ID                <dbl> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,~
$ StartDate         <dtm> 2024-04-28 11:11:20, 2024-04-28 11:12:34,~
$ EndDate           <dtm> 2024-04-28 11:30:12, 2024-04-28 11:31:15,~
$ IPAddress         <chr> "90.167.243.1", "83.58.124.179", "79.152.1~
$ Duration__in_seconds <dbl> 1132, 1120, 1192, 1410, 1328, 645, 933, 88~
$ RecordedDate      <dtm> 2024-04-28 11:30:12, 2024-04-28 11:31:16,~
$ ResponseId       <chr> "R_1eqka09S3bZXYTp", "R_42oDc55cfSucfrX", ~
$ LocationLatitude  <chr> "41.6362", "41.3891", "41.4287", "41.5453"~
$ LocationLongitude <chr> "-4.7435", "2.1606", "2.2164", "2.4414", "~
$ aten_check_1     <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,~
$ aten_check_2     <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,~
$ aten_check_3     <dbl+lbl> 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,~
$ time_class_1_First_Click <dbl> 2.695, 12.941, 11.788, 13.477, 228.254, 8.~
$ time_class_1_Last_Click <dbl> 55.801, 60.736, 38.827, 50.411, 249.534, 2~
$ time_class_1_Page_Submit <dbl> 57.095, 62.226, 40.360, 51.672, 250.460, 2~
$ time_class_1_Click_Count <dbl> 20, 6, 6, 6, 12, 9, 6, 6, 6, 7, 11, 16, 6,~
$ eco_in_1         <dbl+lbl> 6, 6, 7, 6, 6, 4, 4, 3, 6, 3, 7, 7, 5,~
$ eco_in_2         <dbl+lbl> 6, 6, 7, 6, 6, 4, 5, 4, 3, 4, 1, 6, 5,~
$ eco_in_3         <dbl+lbl> 7, 6, 7, 6, 6, 4, 2, 3, 5, 3, 5, 4, 6,~
$ jus_ine          <dbl+lbl> 1, 2, 1, 1, 2, 5, 1, 1, 2, 1, 2, 5, 3,~
$ co_eco           <dbl+lbl> 7, 7, 6, 4, 5, 3, 6, 6, 3, 2, 1, 4, 5,~
$ time_class_2_First_Click <dbl> 4.004, 11.257, 7.633, 9.522, 6.466, 9.334,~
$ time_class_2_Last_Click <dbl> 88.112, 83.882, 68.033, 82.459, 61.386, 32~

```

\$ time_class_2_Page_Submit	<dbl> 89.238, 85.347, 69.004, 83.534, 62.577, 33~
\$ time_class_2_Click_Count	<dbl> 34, 12, 13, 16, 20, 18, 17, 13, 17, 12, 14~
\$ pp_pw_1	<dbl+lbl> 7, 4, 6, 2, 5, 5, 3, 3, 2, 5, 7, 5, 5,~
\$ pp_pw_2	<dbl+lbl> 7, 5, 6, 3, 6, 5, 5, 7, 2, 5, 2, 5, 5,~
\$ pp_pw_3	<dbl+lbl> 7, 6, 7, 2, 5, 3, 3, 5, 2, 4, 2, 4, 5,~
\$ pp_pw_4	<dbl+lbl> 7, 4, 4, 1, 5, 5, 3, 5, 2, 5, 4, 3, 5,~
\$ cc_pw_1	<dbl+lbl> 5, 4, 6, 3, 6, 4, 5, 6, 5, 4, 4, 6, 6,~
\$ cc_pw_2	<dbl+lbl> 4, 2, 4, 2, 5, 4, 4, 4, 2, 4, 2, 4, 4,~
\$ cc_pw_3	<dbl+lbl> 4, 3, 6, 4, 6, 4, 4, 4, 2, 5, 7, 5, 6,~
\$ cc_pw_4	<dbl+lbl> 3, 5, 5, 3, 6, 4, 5, 5, 4, 4, 7, 6, 6,~
\$ hc_pw_1	<dbl+lbl> 1, 1, 1, 1, 1, 4, 2, 2, 1, 3, 1, 2, 4,~
\$ hc_pw_2	<dbl+lbl> 2, 1, 2, 3, 3, 4, 2, 3, 1, 6, 1, 2, 5,~
\$ hc_pw_3	<dbl+lbl> 1, 1, 4, 2, 2, 4, 1, 2, 1, 3, 1, 2, 2,~
\$ hc_pw_4	<dbl+lbl> 2, 2, 2, 1, 2, 3, 4, 2, 1, 4, 1, 2, 5,~
\$ time_class_3_First_Click	<dbl> 1.784, 8.404, 5.983, 5.768, 68.795, 4.382,~
\$ time_class_3_Last_Click	<dbl> 53.633, 61.879, 60.551, 189.575, 121.331, ~
\$ time_class_3_Page_Submit	<dbl> 54.156, 63.590, 61.758, 190.098, 122.122, ~
\$ time_class_3_Click_Count	<dbl> 30, 12, 14, 13, 14, 19, 13, 12, 13, 13, 13~
\$ pp_pm_1	<dbl+lbl> 6, 5, 6, 4, 5, 5, 3, 6, 2, 5, 7, 5, 6,~
\$ pp_pm_2	<dbl+lbl> 7, 5, 7, 2, 6, 3, 2, 6, 2, 5, 5, 5, 4,~
\$ pp_pm_3	<dbl+lbl> 7, 6, 6, 3, 5, 3, 3, 6, 2, 5, 7, 3, 5,~
\$ pp_pm_4	<dbl+lbl> 7, 4, 6, 3, 5, 3, 3, 5, 2, 4, 7, 4, 6,~
\$ cc_pm_1	<dbl+lbl> 7, 4, 4, 3, 5, 4, 5, 3, 5, 3, 2, 5, 5,~
\$ cc_pm_2	<dbl+lbl> 4, 2, 1, 1, 4, 4, 3, 4, 2, 2, 2, 4, 4,~
\$ cc_pm_3	<dbl+lbl> 4, 3, 2, 3, 4, 4, 4, 4, 2, 3, 1, 4, 6,~
\$ cc_pm_4	<dbl+lbl> 3, 5, 5, 2, 4, 5, 4, 4, 2, 3, 2, 6, 3,~
\$ hc_pm_1	<dbl+lbl> 3, 1, 4, 3, 3, 3, 2, 4, 4, 4, 7, 3, 5,~
\$ hc_pm_2	<dbl+lbl> 3, 1, 5, 3, 3, 3, 2, 3, 2, 4, 7, 3, 5,~
\$ hc_pm_3	<dbl+lbl> 2, 1, 3, 1, 2, 4, 2, 3, 2, 5, 7, 3, 6,~
\$ hc_pm_4	<dbl+lbl> 3, 2, 4, 2, 5, 4, 2, 4, 1, 5, 7, 3, 5,~
\$ time_gender_1_First_Click	<dbl> 1.829, 12.693, 10.808, 18.682, 8.264, 6.60~
\$ time_gender_1_Last_Click	<dbl> 126.481, 112.822, 147.886, 102.824, 82.228~
\$ time_gender_1_Page_Submit	<dbl> 127.601, 114.335, 149.828, 104.069, 83.877~
\$ time_gender_1_Click_Count	<dbl> 49, 20, 28, 23, 20, 31, 25, 24, 20, 23, 27~
\$ gen_in_1	<dbl+lbl> 6, 7, 6, 7, 7, 3, 7, 7, 6, 5, 4, 6, 7,~
\$ gen_in_2	<dbl+lbl> 6, 7, 6, 5, 7, 3, 5, 6, 1, 6, 7, 7, 7,~
\$ gen_in_3	<dbl+lbl> 5, 7, 5, 7, 4, 3, 4, 7, 6, 6, 7, 5, 6,~
\$ gen_in_4	<dbl+lbl> 3, 6, 5, 6, 6, 3, 5, 5, 5, 6, 7, 5, 3,~
\$ gen_in_5	<dbl+lbl> 4, 6, 3, 5, 7, 3, 7, 4, 6, 5, 6, 5, 3,~
\$ gen_in_6	<dbl+lbl> 6, 7, 5, 6, 4, 2, 5, 7, 6, 6, 7, 5, 7,~
\$ ps_m_1	<dbl+lbl> 7, 2, 4, 1, 3, 3, 3, 4, 1, 4, 1, 7, 6,~

\$ ps_m_2	<dbl+lbl> 6, 1, 2, 5, 1, 4, 1, 4, 1, 1, 1, 5, 4,~
\$ ps_m_3	<dbl+lbl> 6, 2, 4, 3, 4, 2, 4, 4, 1, 4, 7, 3, 6,~
\$ hs_m_1	<dbl+lbl> 1, 1, 2, 1, 2, 3, 2, 2, 1, 3, 1, 2, 4,~
\$ hs_m_2	<dbl+lbl> 1, 1, 5, 1, 3, 3, 1, 2, 1, 2, 1, 2, 5,~
\$ hs_m_3	<dbl+lbl> 1, 2, 1, 1, 2, 4, 1, 2, 1, 3, 1, 3, 5,~
\$ shif_1	<dbl+lbl> 1, 1, 2, 2, 2, 6, 1, 1, 1, 2, 1, 5, 5,~
\$ shif_2	<dbl+lbl> 1, 1, 2, 1, 2, 5, 1, 1, 1, 2, 1, 4, 2,~
\$ shif_3	<dbl+lbl> 1, 1, 1, 4, 2, 3, 1, 1, 1, 2, 3, 5, 3,~
\$ femi	<dbl+lbl> 7, 7, 3, 5, 5, 1, 7, 5, 6, 2, 4, 2, 1,~
\$ co_gen	<dbl+lbl> 7, 7, 3, 4, 5, 3, 6, 5, 2, 2, 1, 4, 4,~
\$ jus_gen	<dbl+lbl> 1, 2, 1, 2, 3, 3, 3, 1, 1, 1, 1, 5, 3,~
\$ gen_compe	<dbl+lbl> 4, 6, 5, 5, 4, 4, 1, 4, 4, 4, 1, 5, 5,~
\$ time_contac_1_First_Click	<dbl> 1.842, 12.194, 9.584, 4.779, 10.964, 8.097~
\$ time_contac_1_Last_Click	<dbl> 138.959, 125.608, 145.143, 147.327, 288.91~
\$ time_contac_1_Page_Submit	<dbl> 139.507, 126.906, 146.760, 148.154, 289.52~
\$ time_contac_1_Click_Count	<dbl> 59, 22, 26, 29, 36, 24, 39, 24, 28, 26, 27~
\$ ge_ra_wo	<dbl> 70, 70, 60, 60, 40, 20, 50, 20, 27, 60, 85~
\$ ge_ra_me	<dbl> 30, 30, 40, 40, 60, 80, 50, 80, 73, 40, 15~
\$ quan_pw	<dbl+lbl> 1, 4, 5, 3, 5, 3, 3, 2, 1, 2, 1, 3, 2,~
\$ quan_pm	<dbl+lbl> 1, 4, 5, 3, 5, 4, 3, 3, 1, 2, 1, 3, 2,~
\$ quan_rw	<dbl+lbl> 1, 5, 5, 4, 7, 3, 2, 2, 7, 1, 5, 3, 4,~
\$ quan_rm	<dbl+lbl> 1, 5, 5, 4, 7, 4, 2, 2, 7, 1, 5, 2, 4,~
\$ fri_pw	<dbl+lbl> 1, 1, 2, 3, 3, 4, 2, 1, 1, 3, 1, 2, 1,~
\$ fri_pm	<dbl+lbl> 1, 1, 1, 2, 3, 4, 2, 1, 1, 3, 1, 1, 1,~
\$ fri_rw	<dbl+lbl> 2, 4, 6, 4, 6, 4, 1, 1, 5, 1, 6, 4, 1,~
\$ fri_rm	<dbl+lbl> 2, 5, 6, 3, 6, 4, 1, 1, 5, 1, 7, 4, 1,~
\$ qual_pw	<dbl+lbl> 4, 5, 4, 4, 6, 4, 3, 3, 2, 4, 4, 3, 2,~
\$ qual_pm	<dbl+lbl> 4, 5, 3, 4, 4, 4, 3, 3, 2, 4, 4, 3, 2,~
\$ qual_rw	<dbl+lbl> 2, 5, 6, 3, 5, 4, 3, 4, 4, 4, 7, 4, 3,~
\$ qual_rm	<dbl+lbl> 2, 5, 5, 3, 5, 4, 3, 4, 4, 4, 7, 4, 3,~
\$ mobi_up_1	<dbl+lbl> 4, 3, 3, 5, 2, 3, 1, 3, 1, 4, 5, 5, 6,~
\$ mobi_up_2	<dbl+lbl> 4, 4, 5, 3, 3, 4, 1, 3, 1, 2, 4, 5, 5,~
\$ mobi_up_3	<dbl+lbl> 5, 3, 1, 6, 2, 4, 1, 4, 1, 3, 3, 5, 5,~
\$ mobi_down_1	<dbl+lbl> 5, 6, 6, 6, 5, 4, 5, 5, 6, 4, 5, 3, 2,~
\$ mobi_down_2	<dbl+lbl> 5, 4, 5, 2, 4, 3, 4, 4, 5, 4, 1, 3, 2,~
\$ mobi_down_3	<dbl+lbl> 4, 5, 3, 3, 5, 4, 3, 4, 6, 4, 1, 3, 2,~
\$ time_stere_pw_1_First_Click	<dbl> 1.813, 14.065, 21.732, 17.635, 11.730, 5.6~
\$ time_stere_pw_1_Last_Click	<dbl> 164.968, 172.405, 183.196, 163.738, 148.81~
\$ time_stere_pw_1_Page_Submit	<dbl> 165.908, 174.555, 185.603, 165.040, 149.59~
\$ time_stere_pw_1_Click_Count	<dbl> 106, 41, 55, 44, 48, 49, 53, 38, 45, 37, 4~
\$ condi_gender	<dbl+lbl> 0, 0, 0, 1, 0, 1, 1, 0, 1, 1, 1, 0, 1,~

\$ condi_class	<dbl+lbl> 1, 1, 0, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0, ~
\$ mor_1	<dbl+lbl> 1, 4, 3, 6, 3, 4, 2, 3, 3, 5, 5, 2, 5, ~
\$ mor_2	<dbl+lbl> 2, 3, 4, 5, 2, 5, 3, 4, 4, 4, 5, 3, 4, ~
\$ mor_3	<dbl+lbl> 2, 3, 3, 4, 3, 4, 2, 3, 4, 3, 6, 3, 2, ~
\$ inm_1	<dbl+lbl> 7, 5, 6, 3, 6, 4, 2, 3, 3, 4, 1, 7, 4, ~
\$ inm_2	<dbl+lbl> 6, 4, 4, 2, 3, 3, 2, 3, 5, 2, 1, 6, 3, ~
\$ inm_3	<dbl+lbl> 5, 5, 4, 1, 6, 5, 2, 4, 4, 4, 2, 5, 5, ~
\$ war_1	<dbl+lbl> 4, 4, 2, 4, 5, 4, 5, 4, 5, 5, 5, 3, 5, ~
\$ war_2	<dbl+lbl> 2, 3, 4, 5, 4, 3, 3, 4, 4, 4, 5, 3, 4, ~
\$ war_3	<dbl+lbl> 4, 4, 2, 6, 5, 3, 5, 5, 4, 5, 5, 3, 4, ~
\$ com_1	<dbl+lbl> 7, 6, 4, 5, 5, 5, 3, 4, 4, 3, 6, 5, 3, ~
\$ com_2	<dbl+lbl> 6, 6, 5, 5, 5, 5, 3, 5, 5, 4, 6, 5, 2, ~
\$ com_3	<dbl+lbl> 5, 5, 3, 5, 5, 6, 3, 4, 5, 5, 6, 4, 3, ~
\$ ph_1	<dbl+lbl> 4, 1, 2, 1, 6, 2, 1, 1, 5, 1, 1, 6, 3, ~
\$ ph_2	<dbl+lbl> 4, 1, 6, 1, 6, 2, 1, 1, 5, 4, 1, 5, 4, ~
\$ ah_1	<dbl+lbl> 2, 2, 1, 1, 5, 2, 2, 1, 1, 1, 1, 1, 2, ~
\$ ah_2	<dbl+lbl> 2, 1, 2, 1, 5, 2, 2, 1, 1, 1, 1, 1, 1, ~
\$ pf_1	<dbl+lbl> 4, 4, 5, 5, 3, 4, 2, 7, 3, 5, 7, 5, 5, ~
\$ pf_2	<dbl+lbl> 1, 5, 1, 4, 3, 5, 5, 2, 5, 2, 4, 3, 4, ~
\$ af_1	<dbl+lbl> 1, 4, 1, 5, 3, 3, 3, 7, 2, 2, 7, 2, 3, ~
\$ af_2	<dbl+lbl> 1, 3, 2, 7, 4, 4, 2, 7, 4, 5, 4, 4, 5, ~
\$ ad_1	<dbl+lbl> 1, 4, 2, 5, 3, 5, 1, 5, 2, 3, 2, 3, 4, ~
\$ ad_2	<dbl+lbl> 4, 4, 5, 6, 2, 5, 3, 7, 2, 6, 7, 4, 6, ~
\$ co_1	<dbl+lbl> 2, 1, 1, 1, 6, 2, 4, 1, 5, 1, 1, 1, 3, ~
\$ co_2	<dbl+lbl> 2, 2, 2, 1, 6, 2, 2, 1, 4, 1, 1, 3, 4, ~
\$ en_1	<dbl+lbl> 1, 1, 1, 2, 2, 2, 4, 1, 3, 1, 1, 1, 1, ~
\$ en_2	<dbl+lbl> 1, 1, 1, 1, 2, 2, 4, 1, 4, 1, 1, 1, 1, ~
\$ pi_1	<dbl+lbl> 1, 1, 6, 4, 5, 1, 2, 6, 4, 3, 6, 6, 6, ~
\$ pi_2	<dbl+lbl> 1, 1, 6, 3, 1, 2, 1, 7, 2, 4, 7, 5, 5, ~
\$ sk_1	<dbl+lbl> 7, 6, 6, 7, 6, 2, 7, 6, 4, 5, 7, 5, 3, ~
\$ sk_2	<dbl+lbl> 7, 7, 6, 5, 7, 2, 7, 7, 5, 6, 7, 3, 5, ~
\$ sk_3	<dbl+lbl> 7, 7, 7, 7, 7, 2, 7, 5, 4, 6, 7, 7, 5, ~
\$ ex_po_1	<dbl+lbl> NA, NA, 5, 7, NA, NA, NA, 7, NA, 7~
\$ ex_po_2	<dbl+lbl> NA, NA, 6, 5, NA, NA, NA, 6, NA, 7~
\$ in_po_1	<dbl+lbl> NA, NA, 4, 2, NA, NA, NA, 4, NA, 4~
\$ in_po_2	<dbl+lbl> NA, NA, 2, 1, NA, NA, NA, 5, NA, 5~
\$ ex_we_1	<dbl+lbl> 7, 7, NA, NA, 7, 4, 7, NA, 6, NA~
\$ ex_we_2	<dbl+lbl> 7, 7, NA, NA, 7, 4, 7, NA, 6, NA~
\$ in_we_1	<dbl+lbl> 7, 5, NA, NA, 3, 5, 3, NA, 2, NA~
\$ in_we_2	<dbl+lbl> 3, 5, NA, NA, 3, 5, 2, NA, 1, NA~
\$ carin_control_1	<dbl+lbl> NA, NA, 4, 7, NA, NA, NA, 2, NA, 4~

\$ carin_control_2	<dbl+lbl> NA, NA, 3, 1, NA, NA, NA, 2, NA, 4~
\$ carin_attitude_1	<dbl+lbl> NA, NA, 5, 1, NA, NA, NA, 4, NA, 2~
\$ carin_attitude_2	<dbl+lbl> NA, NA, 7, 1, NA, NA, NA, 2, NA, 3~
\$ carin_reciprocity_1	<dbl+lbl> NA, NA, 3, 4, NA, NA, NA, 3, NA, 3~
\$ carin_reciprocity_2	<dbl+lbl> NA, NA, 5, 1, NA, NA, NA, 2, NA, 4~
\$ carin_identity_1	<dbl+lbl> NA, NA, 3, 1, NA, NA, NA, 1, NA, 1~
\$ carin_identity_2	<dbl+lbl> NA, NA, 1, 2, NA, NA, NA, 5, NA, 1~
\$ carin_need_1	<dbl+lbl> NA, NA, 6, 1, NA, NA, NA, 1, NA, 5~
\$ carin_need_2	<dbl+lbl> NA, NA, 5, 1, NA, NA, NA, 1, NA, 5~
\$ greedy_1	<dbl+lbl> 7, 6, NA, NA, 7, 2, 3, NA, 7, NA~
\$ greedy_2	<dbl+lbl> 7, 6, NA, NA, 7, 3, 4, NA, 6, NA~
\$ greedy_3	<dbl+lbl> 7, 6, NA, NA, 7, 3, 4, NA, 5, NA~
\$ punish_1	<dbl+lbl> 7, 7, NA, NA, 7, 2, 6, NA, 7, NA~
\$ punish_2	<dbl+lbl> 7, 7, NA, NA, 7, 2, 7, NA, 7, NA~
\$ punish_3	<dbl+lbl> 7, 7, NA, NA, 7, 2, 7, NA, 7, NA~
\$ time_dh_1_First_Click	<dbl> 1.898, 22.881, 20.927, 11.899, 12.041, 12.~
\$ time_dh_1_Last_Click	<dbl> 48.775, 34.978, 31.391, 25.883, 21.264, 43~
\$ time_dh_1_Page_Submit	<dbl> 49.622, 37.663, 32.915, 27.970, 22.766, 44~
\$ time_dh_1_Click_Count	<dbl> 26, 4, 5, 6, 4, 9, 5, 5, 5, 4, 4, 8, 4, 4,~
\$ asc_pw	<dbl> 50, 61, 69, 53, 80, 51, 50, 73, 51, 65, 51~
\$ asc_pm	<dbl> 50, 61, 61, 54, 70, 47, 51, 39, 51, 65, 30~
\$ asc_rw	<dbl> 50, 76, 40, 48, 80, 65, 51, 73, 51, 15, 80~
\$ asc_rm	<dbl> 50, 75, 61, 51, 70, 64, 51, 58, 51, 15, 70~
\$ time_sexu_First_Click	<dbl> 1.181, 9.759, 7.360, 8.072, 8.461, 2.646, ~
\$ time_sexu_Last_Click	<dbl> 71.999, 79.570, 76.440, 46.009, 56.913, 35~
\$ time_sexu_Page_Submit	<dbl> 72.541, 81.801, 77.506, 47.515, 57.619, 36~
\$ time_sexu_Click_Count	<dbl> 51, 13, 17, 13, 13, 19, 20, 14, 13, 16, 15~
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\$ wel_abu_2	<dbl+lbl> 1, 1, 2, 1, 2, 2, 3, 2, 1, 2, 2, 4, 3,~
\$ wel_pa_1	<dbl+lbl> 7, 2, 7, 1, 6, 2, 3, 6, 5, 7, 7, 5, 6,~
\$ wel_pa_2	<dbl+lbl> 7, 2, 7, 1, 6, 2, 5, 6, 4, 6, 7, 7, 5,~
\$ wel_ho_1	<dbl+lbl> 1, 1, 1, 1, 2, 2, 2, 3, 1, 5, 1, 1, 2,~
\$ wel_ho_2	<dbl+lbl> 1, 1, 1, 1, 2, 2, 4, 4, 1, 6, 1, 4, 2,~
\$ pro_pw	<dbl+lbl> 4, 2, 3, 1, 2, 3, 3, 2, 1, 2, 1, 2, 5,~
\$ pro_rw	<dbl+lbl> 4, 2, 6, 1, 5, 4, 3, 4, 1, 6, 7, 5, 6,~
\$ ris_pw	<dbl+lbl> 6, 2, 6, 1, 6, 4, 3, 3, 4, 4, 7, 6, 6,~
\$ ris_rw	<dbl+lbl> 3, 1, 5, 1, 4, 4, 3, 3, 5, 5, 5, 4, 2,~
\$ pre_pw	<dbl+lbl> 6, 3, 6, 3, 6, 4, 4, 3, 5, 5, 7, 4, 6,~
\$ pre_rw	<dbl+lbl> 3, 1, 4, 3, 2, 4, 2, 3, 3, 2, 2, 5, 1,~
\$ time_poli_1_First_Click	<dbl> 1.453, 15.591, 12.917, 12.337, 40.588, 5.5~
\$ time_poli_1_Last_Click	<dbl> 106.685, 99.407, 95.733, 90.936, 112.949, ~

\$ time_poli_1_Page_Submit	<dbl> 107.394, 101.436, 96.779, 92.410, 114.003,~
\$ time_poli_1_Click_Count	<dbl> 56, 15, 16, 17, 16, 16, 16, 15, 16, 16, 16~
\$ redi_1	<dbl+lbl> 7, 7, 7, 5, 7, 4, 7, 7, 6, 7, 6, 5, 6,~
\$ redi_2	<dbl+lbl> 7, 7, 6, 1, 7, 3, 7, 7, 7, 7, 1, 6, 7,~
\$ effec_pw_1	<dbl+lbl> 1, 1, 5, 1, 3, 3, 2, 2, 2, 3, 2, 4, 2,~
\$ effec_pw_2	<dbl+lbl> 7, 6, 3, 5, 4, 3, 3, 5, 2, 3, 4, 3, 6,~
\$ effec_pm_1	<dbl+lbl> 1, 1, 6, 1, 4, 4, 3, 3, 2, 5, 7, 5, 5,~
\$ effec_pm_2	<dbl+lbl> 7, 6, 3, 4, 3, 4, 3, 4, 2, 4, 7, 5, 3,~
\$ poli_progre_1	<dbl+lbl> 7, 7, 5, 6, 7, 2, 7, 6, 6, 6, 7, 6, 5,~
\$ poli_progre_2	<dbl+lbl> 7, 7, 5, 6, 7, 3, 5, 7, 6, 6, 7, 6, 6,~
\$ poli_restri_1	<dbl+lbl> 7, 4, 6, 1, 6, 3, 4, 4, 4, 6, 6, 3, 4,~
\$ poli_restri_2	<dbl+lbl> 3, 6, 5, 1, 4, 3, 2, 6, 3, 4, 7, 5, 5,~
\$ aut_pw_1	<dbl+lbl> 7, 6, 3, 5, 5, 4, 2, 2, 3, 4, 7, 3, 3,~
\$ aut_pm_1	<dbl+lbl> 7, 6, 3, 5, 4, 4, 2, 3, 4, 4, 7, 2, 3,~
\$ depe_pw_1	<dbl+lbl> 6, 2, 5, 1, 6, 4, 5, 4, 4, 4, 7, 5, 5,~
\$ depe_pm_1	<dbl+lbl> 6, 3, 5, 1, 6, 4, 5, 4, 4, 4, 7, 5, 5,~
\$ time_violence_First_Click	<dbl> 1.529, 11.600, 32.419, 63.577, 13.948, 6.5~
\$ time_violence_Last_Click	<dbl> 85.503, 117.811, 121.627, 225.891, 87.475,~
\$ time_violence_Page_Submit	<dbl> 86.202, 120.009, 122.810, 235.969, 93.996,~
\$ time_violence_Click_Count	<dbl> 58, 22, 27, 26, 25, 40, 30, 22, 23, 25, 25~
\$ condi_viole	<dbl+lbl> 0, 1, 0, 0, 1, 1, 1, 1, 0, 0, 0, 1, 1,~
\$ hara_pw_1	<dbl+lbl> 7, 6, 3, 7, 5, 5, 5, 5, 5, 6, 4, 5, 4,~
\$ hara_pw_2	<dbl+lbl> 7, 7, 7, 7, 7, 7, 7, 7, 6, 7, 7, 7, 7, 5,~
\$ hara_pw_3	<dbl+lbl> 7, 6, 2, 7, 6, 7, 7, 5, 6, 7, 7, 7, 6,~
\$ abu_pw_1	<dbl+lbl> 7, 7, 3, 7, 5, 7, 7, 6, 6, 7, 7, 7, 7,~
\$ abu_pw_2	<dbl+lbl> 7, 7, 4, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7,~
\$ abu_pw_3	<dbl+lbl> 7, 7, 6, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,~
\$ viole_pw_1	<dbl+lbl> 7, 5, 7, 2, 3, 3, 3, 6, 4, 7, 6, 5, 2,~
\$ viole_pw_2	<dbl+lbl> 7, 6, 7, 2, 5, 4, 4, 5, 4, 6, 6, 5, 3,~
\$ viole_pw_3	<dbl+lbl> 7, 7, 6, 2, 7, 4, 4, 6, 6, 7, 6, 5, 5,~
\$ viole_pw_4	<dbl+lbl> 7, 5, 6, 2, 5, 4, 4, 6, 4, 6, 6, 4, 2,~
\$ viole_pw_5	<dbl+lbl> 7, 2, 6, 2, 2, 3, 4, 4, 7, 6, 4, 3, 3,~
\$ viole_pw_6	<dbl+lbl> 7, 6, 5, 2, 6, 5, 4, 6, 6, 6, 7, 4, 4,~
\$ barri_pw_1	<dbl+lbl> 6, 5, 7, 2, 2, 3, 6, 6, 6, 7, 7, 7, 5,~
\$ barri_pw_2	<dbl+lbl> 6, 1, 7, 2, 1, 3, 5, 7, 6, 7, 7, 6, 3,~
\$ barri_pw_3	<dbl+lbl> 6, 6, 6, 2, 4, 4, 3, 7, 6, 6, 7, 4, 5,~
\$ barri_pw_4	<dbl+lbl> 6, 3, 6, 2, 3, 4, 6, 7, 6, 6, 7, 4, 2,~
\$ barri_pw_5	<dbl+lbl> 6, 6, 5, 2, 6, 4, 6, 5, 4, 7, 7, 3, 3,~
\$ perpe_1	<dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
\$ perpe_2	<dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~
\$ perpe_3	<dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~

\$ perpe_4	<dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
\$ perpe_5	<dbl+lbl> 1, 1, 1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, ~
\$ time_demo_1_First_Click	<dbl> 1.801, 1.418, 2.388, 1.532, 1.449, 0.778, ~
\$ time_demo_1_Last_Click	<dbl> 151.620, 113.887, 108.556, 125.513, 61.897~
\$ time_demo_1_Page_Submit	<dbl> 152.193, 115.771, 110.955, 126.555, 63.446~
\$ time_demo_1_Click_Count	<dbl> 64, 24, 27, 29, 22, 26, 25, 25, 19, 26, 22~
\$ age	<dbl+lbl> 54, 58, 57, 30, 25, 22, 27, 29, 22, 41~
\$ sex	<dbl+lbl> 2, 1, 2, 1, 2, 2, 1, 1, 1, 2, 1, 1, 2, ~
\$ sex_other	<chr> "", "", "", "", "", "", "", "", "", "", "", ""~
\$ edu	<dbl+lbl> 5, 5, 5, 6, 5, 5, 5, 4, 5, 5, 6, 5, 6, ~
\$ ses	<dbl+lbl> 6, 6, 6, 7, 7, 7, 6, 5, 5, 4, 6, 8, 6, ~
\$ hig_ide	<dbl+lbl> 2, 1, 1, 4, 2, 4, 1, 2, 2, 1, 3, 4, 3, ~
\$ mid_ide	<dbl+lbl> 5, 6, 6, 6, 6, 5, 4, 6, 4, 3, 7, 6, 6, ~
\$ low_ide	<dbl+lbl> 3, 1, 2, 2, 1, 2, 3, 2, 3, 5, 1, 3, 2, ~
\$ po	<dbl+lbl> 1, 2, 2, 3, 2, 5, 1, 2, 2, 1, 5, 6, 6, ~
\$ country_residence	<dbl+lbl> 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, ~
\$ country_residence_other	<chr> "", "", "", "", "", "", "", "", "", "", "", ""~
\$ country_residence_recoded	<dbl+lbl> 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, ~
\$ natio_arge	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_colom	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_espa	<dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
\$ natio_mex	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_chile	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_peru	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_boli	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_cost	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_cuba	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_ecua	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_elsa	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_guat	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_eqgu	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_hond	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_nica	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_pana	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_para	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_puer	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_domi	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_urug	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_vene	<dbl+lbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_other	<dbl> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
\$ natio_other_text	<chr> "", "", "", "", "", "", "", "", "", "", "", ""~


```

$ lang                <dbl+lbl> 1, 1, 3, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
$ lang_other          <chr> "", "", "Catalán", "Catalán", "", "", "", ~
$ lang_recoded        <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
$ inc                 <dbl> 3200, 1300, 3000, 60000, 3500, 600, 1800, ~
$ currency            <dbl+lbl> 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, ~
$ post_code           <chr> "40197", "47001", "08020", "00001", "41005~
$ municipality        <chr> "Segovia", "Valladolid", "sant marti", "-~
$ n_perso             <dbl+lbl> 3, 1, 4, 2, 3, 3, 3, 2, 1, 3, 1, 3, 4, ~
$ ori_sex             <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 3, 1, 1, 1, 1, ~
$ ori_sex_other       <chr> "", "", "", "", "", "", "", "", "", "", "", ~
$ relation            <dbl+lbl> 1, 2, 1, 1, 1, 2, 1, 1, 2, 1, 2, 1, 1, ~
$ natio_recoded       <dbl+lbl> 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, ~
$ regional_area       <dbl+lbl> 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, ~
$ PrimarioÚltimo     <dbl+lbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~

```

We have 4,386 cases or rows and 283 variables or columns.

4 Processing

4.1 Select

We exclude variables related to attention checks, survey response time, dummy nationalities and the auxiliary variable `PrimarioÚltimo`, which indicates whether there are duplicate cases.

```

db_proc <- sogedi_db %>%
  dplyr::select(-c(matches("^(aten|time)"), 247:269, 283))

```

4.2 Filter

We filter out cases from countries without a sufficiently large sample size for statistical analysis, retaining only those from Argentina, Chile, Colombia, Spain, and Mexico.

```

frq(db_proc$natio_recoded)

```

Recodification of nationality based on country of residence, declared nationality, and
 # total N=4386 valid N=4386 mean=6.46 sd=5.00

Value	Label	N	Raw %	Valid %	Cum. %
<hr/>					
1	Argentine	857	19.54	19.54	19.54
2	Bolivian	1	0.02	0.02	19.56
3	Chilean	860	19.61	19.61	39.17
4	Colombian	824	18.79	18.79	57.96
5	Costa Rican	0	0.00	0.00	57.96
6	Cuban	5	0.11	0.11	58.07
7	Ecuadorian	3	0.07	0.07	58.14
8	Salvadoran	2	0.05	0.05	58.19
9	Spanish	831	18.95	18.95	77.13
10	Guatemalan	1	0.02	0.02	77.15
11	Equatoguinean	0	0.00	0.00	77.15
12	Honduran	2	0.05	0.05	77.20
13	Mexican	837	19.08	19.08	96.28
14	Nicaraguan	1	0.02	0.02	96.31
15	Panamanian	1	0.02	0.02	96.33
16	Paraguayan	2	0.05	0.05	96.37
17	Peruvian	70	1.60	1.60	97.97
18	Puerto Rican	0	0.00	0.00	97.97
19	Dominican	0	0.00	0.00	97.97
20	Uruguayan	7	0.16	0.16	98.13
21	Venezuelan	75	1.71	1.71	99.84
22	Rusian	1	0.02	0.02	99.86
23	Swiss	1	0.02	0.02	99.89
24	EEUU	1	0.02	0.02	99.91
25	Brasilian	4	0.09	0.09	100.00
<NA>	<NA>	0	0.00	<NA>	<NA>

```
db_proc <- db_proc %>%
  dplyr::filter(natio_recoded %in% c(1,3,4,9,13))
```

4.3 Recode and transform

Not required.

4.4 Missing values

There is a total of 50.569 missing values in the database, which represents the 5.7% of the total.

```
n_miss(db_proc) # total of NA's
```

```
[1] 50569
```

```
prop_miss(db_proc)*100 # proportion of NA's
```

```
[1] 5.667214
```

Let's see the number and percentage of missing values per variable:

```
db_proc %>%  
  select(-c(ex_we_1, ex_we_2, in_we_1, in_we_2,  
            ex_po_1, ex_po_2, in_po_1, in_po_2,  
            matches("^ (greedy|punish|carin)"))) %>%  
  miss_var_summary(.) %>%  
  filter(pct_miss > 0) %>%  
  kable(., "markdown")
```

variable	n_miss	pct_miss
po	25	0.594
age	21	0.499
ori_sex	11	0.261
inc	10	0.238
relation	8	0.190
country_residence	5	0.119
lang_recoded	2	0.0475
n_perso	1	0.0238

5 Save and export

Finally, we save and export the processed database `db_proc` in `.RData`, `.dta` and `.sav` formats.

```
save(db_proc, file = here("output/data/db_proc.RData"))
haven::write_dta(db_proc, path = here("output/data/db_proc.dta"))
haven::write_sav(db_proc, path = here("output/data/db_proc.sav"))
```