Exercise 4: Census Exercise 1

For the exercise, execute a ‘filtered’ get\_pums request for the variables used in the presentation for a single state (of your choice), including at least 2 additional variables.

Save that request as a csv file and include it with your submission.

Include a summary table for all the variables in this word document.

I used the “survey” library to use the “PWGTP” weight for summary statistics including means, standard deviations, and proportions for categorical variables. I referenced the website <https://www.bookdown.org/rwnahhas/RMPH/survey-desc.html> when creating the summary table with “gtsummary”. I further compressed the schooling and class of worker variables as the number of categories was too large for “gtsummary” to process originally. The R code files used to create the original and recoded 2018 California PUMS data are included with the submission.

***Weighted Summary Statistics for 2018 PUMS California Data***

|  |  |
| --- | --- |
| **Characteristic** | **N = 39,557,045**1 |
| **Age** | 37.9 (22.7) |
| **Household Income** | 113,382.8 (121,894.0) |
| **Class of worker** |  |
| Government | 3,149,026.0/39,557,045.0 (8.0%) |
| N/A (less than 16 years old/NILF who last worked more than 5 years ago or never worked) | 16,420,432.0/39,557,045.0 (41.5%) |
| Private Sector | 16,920,908.0/39,557,045.0 (42.8%) |
| Self-Employed/Unpaid | 2,815,938.0/39,557,045.0 (7.1%) |
| Unemployed | 250,741.0/39,557,045.0 (0.6%) |
| **Non-English language spoken at home** |  |
| N/A (less than 5 years old) | 2,430,611.0/39,557,045.0 (6.1%) |
| No, speaks only English | 20,576,095.0/39,557,045.0 (52.0%) |
| Yes, speaks another language | 16,550,339.0/39,557,045.0 (41.8%) |
| **Sex** |  |
| Female | 19,896,843.0/39,557,045.0 (50.3%) |
| Male | 19,660,202.0/39,557,045.0 (49.7%) |
| **Nativity** |  |
| Foreign born | 10,609,674.0/39,557,045.0 (26.8%) |
| Native | 28,947,371.0/39,557,045.0 (73.2%) |
| **Race Group** |  |
| Alaska Native alone | 1,658.0/39,557,045.0 (0.0%) |
| American Indian alone | 218,175.0/39,557,045.0 (0.6%) |
| American Indian and Alaska Native tribes specified; or American Indian or Alaska Native, not specified and no other races | 82,695.0/39,557,045.0 (0.2%) |
| Asian alone | 5,837,058.0/39,557,045.0 (14.8%) |
| Black or African American alone | 2,280,514.0/39,557,045.0 (5.8%) |
| Native Hawaiian and Other Pacific Islander alone | 144,147.0/39,557,045.0 (0.4%) |
| Some Other Race alone | 5,440,897.0/39,557,045.0 (13.8%) |
| Two or More Races | 2,028,963.0/39,557,045.0 (5.1%) |
| White alone | 23,522,938.0/39,557,045.0 (59.5%) |
| **Schooling** |  |
| Associate Degree | 2,347,370.0/39,557,045.0 (5.9%) |
| Bachelor’s+ | 9,647,483.0/39,557,045.0 (24.4%) |
| High School | 6,758,339.0/39,557,045.0 (17.1%) |
| N/A (less than 3 years old) | 8,466,470.0/39,557,045.0 (21.4%) |
| No High School | 5,148,960.0/39,557,045.0 (13.0%) |
| Some College | 7,188,423.0/39,557,045.0 (18.2%) |
| 1Mean (SD); n/N (%) | |