



View

File (voter-turn...rName).arr

Insert

Publish

Run

Stop


ntials2021

>>>

```

3
4
5 include shared-gdrive("Bootstrap-DataScience-v1.5.arr",
6 "1btFfKCcas4zkQ6-SYCYMkcDCqmduzQqB")
7 include gdrive-sheets
8 include tables
9 include image
10
11 voter-data-2020 = load-
12 spreadsheet("1kSAXNDRTuQidwFuTGvQRMc7HtsIkczZGqG8q_r4iZR0")
13 voter-table = load-table: state, total-pop, total-citizen, total-
14 register, total-voted, white-pop, white-register, white-voted, black-
15 pop, black-register, black-voted, hispanic-pop, hispanic-register,
16 hispanic-voted, asian-pop, asian-register, asian-voted
17
18 source: voter-data-2020.sheet-by-name("Sheet1", true) end
19
20 #Note: This dataset contains information about the total US
21 population which can be used for comparison.
22
23 #Part I: In this part of the project, you will practice writing
24 functions and applying table methods using the voter-table.
25
26 #####
27 # Practice 1: Look at the spreadsheet "voter-data-2020." Choose three
28 states and define the rows below.
29
30 #State #1:
31
32 #State #2:
33
34 #State #3:
35
36 #####
37 # Practice 2: Define a table called "population-sort" that sorts the
38 table by total population starting with the greatest population.
39
40
41
42
43 #####
44 # Practice 3a: Write a function called "states-only" that consumes a
45 row and returns true if the population of the state is less than
46 250,000.
47
48
49 # Practice 3b: Define a table called "states" that only shows the
50 states. Note: This table will be used for many of your graphs.
51
52

```



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55 #####

56 # Practice 4a: Write a function called "percent-voted" that
calculates the percent of total voters out of the total population.
Round your percent by adding the code num-round().

57

58

59 # Define the function.

60

61

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63 # Practice 3b: Define a table adds a column with the percent of total
voters to the total population.

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69 #####

70 # Practice 5: Define a small random sample with 15 states and medium
random sample with 25 states.

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72

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76 #####

77 # Practice 6: Create a scatter plot showing the total registered
population to the total voters for only the states.

78

79

80

81

82 #####

83 # Part II: In this part, you will analyze the data from the table to
see if there are differences between voter turnout rates of people of
different races in different states. You should look at different
groups of states individually, smaller samples of states or all of
the states.

84

85 # Write your code in the definitions area. You can save different
tables or comment out the code when not required. Refer to the google
slides for specific directions.

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