

SPEC Lab R Resources: Powersharing Problem Set

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Data Investigations: States & Religion

Download the power sharing dataset from the shared google drive. Load the dplyr package and save the dataframe as an object.

Exercise 1: Load and view the dataset.

Question 1: What is the second variable in the dataset? What is the eighth?

FYI

When you use the **select()** function, you will keep only the variables you mention. You can use **rename()** to keep all variables. There are several additional functions you can use inside **select()** such as **starts_with()**, **ends_with()**, **num_range()**, **matches()**. You can use the **filter()** command to find rows/ cases based on certain conditions. The **mutate()** function adds new variables while preserving old ones. When you use **mutate()**, make sure to make a unique variable name so you do not overwrite existing variables. You can use **transmute()** to add new variables and drop existing ones. In this problem set you will use piping with the notation **%>%** to make your code more efficient.

We will be focusing on variables relating to religion in the power sharing dataset. These variables have the prefix “rel” and include state establishment of religion, state restriction of religion, protection of religion, and protection against discrimination on the basis of religion.

DIY

State Establishment of Religion

Exercise 2: select the variables related to religion: “releestablish”, “relrestrict”, “relconstp”, “relconstd”

Exercise 3: using the **filter()** function, find cases where the state has at least one established religion. The variable “releestablish” is coded 0 if the state has no established religions.

Question 2: Name a country that has a single established religion. What is a country with more than one established religion? *hint: you can also use the arrange command*

State Protection of Religion

Exercise 4 & 5: Use the **groupby()** and **mutate()** commands to create a variable to indicate whether a state has a clause in their constitution regarding religious protection by combining **relconstp** and **relconstd** into “relfreedom”.

Last thing: Put it all together. Use piping to combine all the exercises done in the State Protection of Religion section.