

START

Make Dictionaries for each csv with GEO.id & Id of interest (where GEO.id is the keys, and id's are the values)

input: census csv
output: census dict

Have user select variable of interest from Dictionary of GEO.id & Id and create list from keys (GEO.ids) of select variables

input: census dict
output: list with select variables Geo.ID;
list with select variables iD

Use newly created list to find coluns in census csv and make new csv with just those variables (where unique id is the census tract and the rows are the GEO.id are colums)

input: select variable list
output: csv with select variables and census tract as unique id

Make feature layer from census tract shapefile, join new csv to this feature layer and save as new shapefile with unique name

input: select variable csv & census tract shapefile
output: new census tract shapefile with select variables

Use list of select variables' Id to set field aliases in the new shapefile.

input: new shapefile ; select variable Id list
output: updated shapefile

STOP

Modules/Functions:

- Pandas
 - tolist()
 - read_csv()
- ArcPy
 - MakeFeatureLayer_management
 - JoinField_management
- Python
 - dict()