**US Census Data Housing Trends**

* Utilize the census Python module
* Different Regions – 5-year timeline (each member will analyze a separate region)
  + Compare homeownership rates
  + Analyze rental affordability
  + Home value over time
* Come back with 5 regions to create a general report analyzing all regions in total
* Determine which fields have the greatest ***correlation*** with home value/homeownership rates/rental affordability.
  + An example might be poverty rate/crime/etc.
* Our time window will be 2018 – 2022, we should try and determine what effects covid had on this data and if it will bring up any issues in the analysis.

**Data Availability within the Census Python Module**

* Home Value
* Poverty Count
* Racial Breakdown
* Move in Year
* Which households spend > 50% income on housing costs
* Population
* Household Income
* Per Capita Income
* Median Age

**Region Analysis**

* Northeast (Malika)
  + Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Maryland, and Delaware
* Southeast (Chad)
  + Virginia, West Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, and Arkansas
* Midwest (Will)
  + Ohio, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, and Kansas
* Southwest (Alice)
  + New Mexico, Oklahoma, Texas, and Arizona
* West (Jonathan)
  + Montana, Wyoming, Colorado, Idaho, Utah, Nevada, Washington, Oregon, California, Alaska, and Hawaii

**Regional Reports**

* Median Home Value / Year (Line Graph)
* Home Value / % Spent on housing (Scatter)
* Homeownership Rate / Year
* Find The greatest field correlation (all fields vs fields)
  + Graph will be dependent on results
* Housing Costs / Income

**Income and Poverty Levels by Year**

* Median Household Income (B19013) / Poverty Status (B17021)
* Analyzing income inequality across states/regions
* Analyze correlations between income levels and poverty rates over time

**Housing Affordability and Cost Burden**

* Median Home Value (B25077) / Median Gross Rent (B25064) / Monthly Owner Costs (B25105)
* Analyzing housing affordability by comparing median income with median home values or rent across regions
* Identify if there is anywhere that housing costs have outpaced income levels?

**Home Values and Property Trends**

* Value of Owner-Occupied Housing Units (B25075)
* Analyze property value trends over time across different regions
* Identify high-growth areas where home values are increasing

https://www2.census.gov/programs-surveys/acs/tech\_docs/pums/data\_dict/PUMS\_Data\_Dictionary\_2021.pdf