1. Data Source:
   1. <https://www.kaggle.com/datasets/goldenoakresearch/us-acs-mortgage-equity-loans-rent-statistics>
   2. Original sources:
      1. <https://www2.census.gov/programs-surveys/acs/summary_file/2016/data/5_year_by_state/>
      2. https://www2.census.gov/geo/docs/maps-data/data/gazetteer/2016\_Gazetteer/
   3. Bias: There should be little to no bias as these are government sources.
   4. Collection methods: US Census information gathered from self-identified surveys, phone calls, door to door campaigns. As such, there is the possibility for human error in collection and the self-identification as some groups may want to hide data as to avoid detection for persons living with them (or not), income, etc.
   5. Contents: The Kaggle data set is comprised of 1 file:
      1. real\_estate\_db.csv with 39,030 rows of data not including the header and 80 variables (Column F had to be removed before importing to Python as it was corrupted).
   6. Relevance: The data is slightly out of date as we just had a census in 2020 but the overall trends should remain the same.
2. I have chosen this data set for its breadth and depth of information available and by using census data, I hope to showcase relevant information and skills to potential federal employers.
3. Data Profile: 
4. Limitations and ethics:
   1. Limitations:
      1. The data is limited to what the original poster (ALEXANDERGEIGER) has deemed useful to his analysis.
      2. The data is from 2017 and is a snapshot in time instead of a trend over years.
      3. The data does not account for higher degrees, only high school diplomas, which could be misleading.
   2. Ethics:
      1. The data separates out males and females, which could be problematic in gender bias, depending on what the use of the analysis would be.
5. Key Questions:
   1. Does gender distribution play a role in percentage of home ownership per area?
      1. Need tableau and the map function to truly see this
   2. Does high school diploma play a role in family income?
      1. Yes
   3. Does high school diploma play a role in mortgage and expenses?
   4. **Hypothesis:** Where there are more male population and a higher percentage of high school diplomas, there will be a higher percentage of home ownership.
   5. Additional questions:
      1. How does population per state change income?
      2. Does population spread (male vs female per location) affect rent?
      3. Does population spread (male vs female per location) affect income?
      4. Is there anything we can see that impacts percent of population that owns a home vs renting?
   6. **Hypotheses:** Distance to larger population centers will mean that percent ownership will go down as it's typically more affordable to rent in a city than it is to own.