ETL (Done through Excel/power Query)

- 1. ['Death Rates, 2015-2019.txt', 'Death Rates, 2015-2019.csv']
 - 1. Loaded Death Rates.txt document into an excel using get data
 - 2. Removed state codes section
 - 3. Changed null column that contained total into United States using find and replace
 - 4. Saved as CSV file
- 2. [2015.csv, 2016.csv, 2017.csv, 2018.csv, 2019.csv, combined insurance.xlsx]
 - 1. Renamed location to state
 - 2. Removed Puerto Rico row using filter
 - 3. Combined all CSV's mentioned into one file called combined_insurance.xlsx
 - 4. using the append function in power query
 - 5. Created another excel worksheet that separates the sheets by year value
 - 1. Done by just loading in data using get data
- 3. [SAIPESNC 2015-2019.csv]
 - 1. Rename column State to State Code contains state codes
 - 2. Rename State/County name to State
 - 3. Remove Columns with Under Age 18, Ages 5 to 17 and Under age 5 in header name
 - 4. Rename/Replace remaining column headers that have spaces with underscores
 - 5. Remove United States rows
 - 6. Filter on State/County Name where text does not contain left parenthesis to filter down to just states
 - 7. Remove Column County ID
 - 8. Remove Blank Rows
- 4. [numberOfHospitalsByState.csv/Hospital Statistics by State]
 - 1. Rename/Replace remaining column headers that have spaces with underscores
 - 2. Remove Rows American Samoa, Guam, Northern Mariana Islands, Puerto Rico, and Virgin Islands
 - 3. Rename Washington D.C. to District of Columbia
 - 4. Change Gross Patient Revenue(\$) type from currency to decimal
 - 5. Split column State by delimiter hyphen (-)
 - 6. Remove column with state abbreviations
 - 7. Rename column state. 2 to State that contain the state names
- 5. [api.census.gov]
 - 1. Call API for company summary (abscs) by state
 - 2. Filter for rows where NAICS2017 == '62'
 - 1. Returns Health care and social assistance companies

- 3. Replace 'EMP' column as integer type
- 6. [Death Rates and Poverty Merged.CSV]
 - 1. Created a workbook called Death Rates and Poverty Merged
 - 2. Merged Death Rates, 2015-2019.csv and SAIPESNC 2015-2019.csv together
 - 1. Merged using the State column on both CSV's in power query
 - 2. Removed Duplicated columns by using remove column
 - 3. Saved the current sheet as a CSV
- 7. [Hospital Death Rates Insurance Poverty Merged.csv]
 - 1. Used the SAIPESNC_2015-2019.csv and merged all values by years
 - 1. Merged by creating a pivot table and set row values by the State values
 - 2. Averaged all values so that it can be merged to other CSV's afterwards
 - 3. Saved the sheet as SAIPENC merged.csv
 - 2. Used the combined_insurance.xlsx and merged all values by years. Merged by creating a pivot table and set row values by the State values
 - a. Averaged all values so it can be merged to other CSV's afterwards
 - b. Saved the sheet as combined insurance.csv
 - Merged the following 4 csvs: Death Rates, 2015-2019.csv, numberOfHospitalsByState.csv, SAIPENC_merged.csv, and combined insurance.csv
 - a. Merged through inner join on the State column
 - b. Expanded the columns after merge and removed duplicated columns by just using remove column
 - c. Saved the finalized dataset as a CSV file to be used for visualizations

References for Datasets Used

- 1. American Hospital Directory Hospital Statistics by State. (n.d.). https://www.ahd.com/state_statistics.html.
- 2. Bureau, U. C. (2021, March 08). Annual Business Survey (ABS) APIs. Retrieved from https://www.census.gov/data/developers/data-sets/abs.2019.html
- 3. Health Insurance Coverage of the Total Population. KFF. (2020, October 23). https://www.kff.org/other/state-indicator/total-population/?currentTimeframe=0&sortModel=%7B%22colId%22%3A%22Location%22%2C%22sort%22%3A%22asc%22%7D.
- 4. Patil, P. (2020, May 24). Disease Symptom Prediction. Retrieved from https://www.kaggle.com/itachi9604/disease-symptom-description-dataset?select=symptom-precaution.csv
- 5. SAIPE. (n.d.). Retrieved from https://www.census.gov/data-tools/demo/saipe/#/?map_geoSelector=aa_c&map_yearSelector=2010&s_year=2019,2010
- 6. Underlying Cause of Death, 1999-2019 Request. (n.d.). Retrieved from https://wonder.cdc.gov/ucd-icd10.html