**ETL-Assessment-8**

**Introduction**

The purpose of this project is to examine the characteristics of businesses in Iowa, Washington, and Louisiana and to compare them. This is done by exploring several characteristics that would fall under the demographics of business in each state (sex and race) as well as details about the businesses themselves (particularly business size by total employees, revenue, and longevity). The data that is primarily used is the Census API data, particularly the data gathered from the [Annual Business Survey (ABS)](https://www.census.gov/data/developers/data-sets/abs.2019.html) which will be described in further detail in the following section. The data itself contains the results of a sample survey for stratified groups.

**Data Sources (Citations)**

1. Bureau, U. S. C. (2021, September 4). Annual Business Survey (ABS). The United States Census Bureau. Retrieved October 8, 2021, from <https://www.census.gov/data/developers/data-sets/abs.2019.html>.
2. Bureau, U. S. C. (2021, April 20). State Population Totals: 2010-2019. The United States Census Bureau. Retrieved October 9, 2021, from <https://www.census.gov/data/tables/time-series/demo/popest/2010s-state-total.html#par_textimage_1574439295>.

**Extraction, Transformation, Load:**

Please see the Jupyter Notebook in the folder to see these sections.

**Conclusion**

In summary the goal of this project is to explore the Census data collected from the Annual Business Survey (ABS) and to determine what relationships we can find between the states of Washington, Iowa, and Louisiana. To that end the Census ABS API was queried using python for the variables we wanted to explore (see report for the variables). After extracting the data from the API they were transformed in python, turned into a CSV file format and then loaded back into python using the CSVs to explore the data and to create visualizations. Please the report for the analysis that was done.