Cap Stone ReadMe

This capstone it is to see if there is any correlation between child birth and COVID.

This capstone is multilayered the first layer is the uncover if women conceive more during the winter season or during the summer season and also see it as any correlation between the states with warmer weather versus cooler weather during the winter season and see if there’s a correlation between that data and COVID.

January 20, 2020 CDC confirms the first U.S. laboratory-confirmed case of COVID-19 in the U.S. from samples taken on January 18 in Washington state.

<https://www.cdc.gov/museum/timeline/covid19.html#:~:text=January%2020%2C%202020%20CDC,18%20in%20Washington%20state>.

The years that will be used to evaluate temperature for the states, will be the years 2017, 2018,2019

<https://www.ncdc.noaa.gov/cag/statewide/mapping>

Criteria that will be used are:

* Average temperature for each state for the winter months:
  + Winter months ranges from November – March of the following year
    - Year 2017 (Dec 2016 – Feb 2017)
    - Year 2018 (Dec 2017 – Feb 2018)
    - Year 2019 (Dec 2018 – Feb 2019)

The CDC states that that the childbearing age range for an healthy baby ranges from **16-49 years of age.** A health condition that develops and persists over a long period of time.

<https://www.cdc.gov/biomonitoring/glossary.html>

Range of ages during which a woman may become pregnant. For example: Can be defined as **16-49 years of age**. A health condition that develops and persists over a long period of time.

1. Determine the states to evaluate
   1. Evaluate the top three (3) coldest states and the warmest states
      1. Average temperatures for 2017, 2018,2019

Tue, Jun 21, 2022 – Thu, Sep 22, 2022

Action Plan:

1. Pull data for weather by months for all the states for 2017-2019
   1. Isolate the summer months (**June, July, August**) and winter months (**Dec-Feb**)
   2. Separate the winter months by the cold vs. warm states
2. Get the female birth age range population for step 1.b
   1. determine the mean
   2. determine the

conception