

Team 2 – Final Project – COVID Severity

Members:

- Stacey Conley - □ (Repository)
- Ben Shelburn – ○ (Database)
- Djasila Us – X (Technologies)
- Lisa Wagner – Δ (Machine Learning)

Week 1 Deliverables:

1. Dataset
 - a. <https://data.cdc.gov/Case-Surveillance/COVID-19-Case-Surveillance-Public-Use-Data-with-Ge/n8mc-b4w4>
 - i. See last page for column details.
 - b. Other datasets may be added ... a lot of the datasets are redundant.
 - c. Question: Can the severity of a Covid diagnosis be predicted and what do the severity levels look like based on state, gender, and age group?

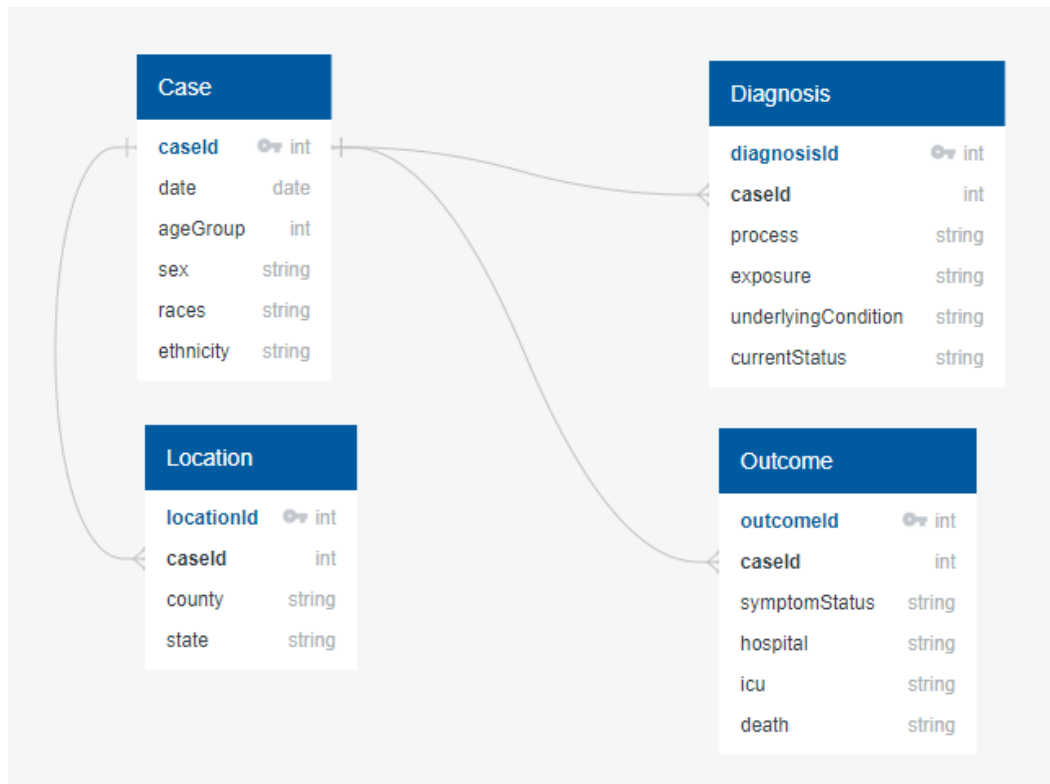
2. Github Setup

- a. https://github.com/c2j185/Final_Project

	Active branches
	Lisa Updated 2 days ago by WagnerLisaK
	Ben Updated 3 days ago by bshelburn
	Stacey Updated 5 days ago by c2j185
	Djasila Updated 5 days ago by c2j185
Default branch	
main Updated 3 days ago by c2j185	

3. Mock-up of Machine Learning
 - a. Use classification Machine Learning to predict severity of COVID diagnosis
 - i. Not Severe = Asymptomatic or Hospitalization
 - ii. Severe = ICU or Death

4. Mock-up of Database (ERD)



5. Mock-up / Ideas of Visualizations (Dashboard)

- Severity by State
- Severity by Gender
- Severity by AgeGroup

Columns in this Dataset

Column Name	Description	Type	
case_month	The earlier of month the Clinical Date (date related to the il...	Plain Text	T
res_state	State of residence	Plain Text	T
state_fips_code	State FIPS code	Plain Text	T
res_county	County of residence	Plain Text	T
county_fips_code	County FIPS code	Plain Text	T
age_group	Age group [0 - 17 years; 18 - 49 years; 50 - 64 years; 65 + ye...	Plain Text	T
sex	Sex [Female; Male; Other; Unknown; Missing; NA, If value s...	Plain Text	T
race	Race [American Indian/Alaska Native; Asian; Black; Multiple...	Plain Text	T
ethnicity	Ethnicity [Hispanic; Non-Hispanic; Unknown; Missing; NA, If...	Plain Text	T
case_positive_specimen_interval	Weeks between earliest date and date of first positive spec...	Number	#
case_onset_interval	Weeks between earliest date and date of symptom onset.	Number	#
process	Under what process was the case first identified? [Clinical e...	Plain Text	T
exposure_yn	In the 14 days prior to illness onset, did the patient have an...	Plain Text	T
current_status	What is the current status of this person? [Laboratory-confi...	Plain Text	T
symptom_status	What is the symptom status of this person? [Asymptomatic...	Plain Text	T
hosp_yn	Was the patient hospitalized? [Yes, No, Unknown, Missing]	Plain Text	T
icu_yn	Was the patient admitted to an intensive care unit (ICU)? [Y...	Plain Text	T
death_yn	Did the patient die as a result of this illness? [Yes; No; Unkn...	Plain Text	T
underlying_conditions_yn	Did the patient have one or more of the underlying medica...	Plain Text	T