CS480 – Course project

 Summer 2020

 Database: **Covid\_19\_Hospitalization**

**Description:**

We are creating a database where we keep the track of number of beds and patients are there. We have different hospitals that has a unique id, has a name, and the hospital type. The hospital where it has taken place can also have the address, county, state, zip code and FIPS for city. With all that in mind we finally have the information on the total beds that are in each hospitals, each hospital has licensed beds, staffed beds, ICU beds, PEDI-ICU beds, bed utilization, potential increase in beds and average ventilator use. With the help of information, we can maintain the overall traffic of people with COVID-19 under control!

Project Part 2 – CRUD (Create, read, update, and delete)

Deadline: July 18, 2020

**List of entities:**

1.    Hospital

2.    Location

3.    Beds

Based on the Demo (Part 1), implement the following functionality using Java and SQL with necessary GUI interfaces.

1.        Insert/delete/update/read a **Hospital** (all attributes)

2.        Insert/delete/update/read a **Location** (all attributes)

3.        Insert/delete/update/read a **Beds** (all attributes)

Project Part 3 – Queries

Deadline: August 1, 2020

Based on the Demo, implement the following functionality using Java and SQL with necessary GUI interfaces.

**Trivial Queries:**

1.    List all Hospitals

2.    List all Hospital Address Information

3.    List all Bed data per hospital

**Non-trivial Queries:**

1.           List all the Hospital Names by their types.

2.List all the Hospital Names by their specific locations (State/city/county/zip code/FIPS).

3.           Find all the hospitals with bed usage less than a specific number.

5.        List Hospitals, based on, Location, Emergency Service option, non-decreasing bed-usage/ventilator-use/icu-beds. (User can enter, their location (State/city/county/zip code).