Spark (MIS 381) Nov 2020.v1

* **What to turn in**
  + Save your code into one .docs file with the naming format: LastName\_FirstName\_UTEid. Please make sure the lastname and firstname you use matches what is in Canvas. In this document you should explain:
    - **The dataset you found**
      * **Hospital beds information dataset.**
    - **Why did you chose it?**
      * **I wanted to find out about effects on hospitals due to COVID and after searching online and testing out some different datasets I found the hospital information dataset.**
    - **What question does it help you answer?**
      * **Different number of beds utilized by states along with how many were adult beds versus pediatric beds.**
      * **Which counties in certain states were affected depending on their bed situation? For example in Florida?**
      * **How did the beds and deaths compare between certain selected states?**
    - **Any data cleaning/aligning you had to do (Transformations)**
      * **Joining the datasets together with different views to see different patterns that emerged from the data.**
      * **There were some null values, but I wanted to get a larger trend of the patterns in the dataset.**
    - **Outputs from below**

**Analysis and Insights:**

A picture containing graphical user interface

Description automatically generated

* + - * Comparing the 3 states: Florida, Texas, Georgia. The above graph shows which state had the most deaths by max cases for each state. Texas shows to have the most deaths.

Graphical user interface, application

Description automatically generated

* + - * To look at the larger picture of pediatric beds and adult beds by each state according the number of total staffed beds. Texas and California have the most adult and pediatric beds on hand available. It makes sense as they are larger states and can accommodate for more capacity in their efforts.

dfGraphical user interface, application

Description automatically generated

* + - * The graph shows how in the state of Florida and its counties there were differences in the number of adult beds that were available versus the pediatric beds in there. Orange county had the most adult beds while some other counties had higher pediatric beds. The counties were sorted by having the greatest number of staffed beds for each county.

Chart, histogram

Description automatically generated

**The graph shows the maximum number of beds that were staffed for each different state and Florida had the most staffed beds at a certain time. The data was grouped by the state, county and population while joining the COVID dataset with the hospital dataset.**