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SI 664

Final Project Proposal

I am interested in creating a database and Django app for a dataset related to healthcare. So, after looking through a number of datasets on Kaggle, I decided on the “Hospital Payment and Value of Care dataset (<https://www.kaggle.com/cms/paymentandvalue2017>) for the final project . This dataset includes information on payment and value of care for a number of hospitals in the United States. The dataset includes data for a variety of common ailments, such as heart attack and pneumonia.

This dataset has 23 columns and I believe this is sufficient to create a database of 7-10 tables. There are a number of columns with longer text descriptions that can be better modeled using lookup tables. For example, the “value of care category” column has a few options of longer text, such as “Average mortality and average payment”. Therefore, a lookup table would make a cleaner database since there are a finite number of categories and they are not unique to the hospital itself.

As for the Django application, I believe it would be helpful to have a list of states to choose from. Once a state is chosen, it will show all of the hospitals within that state that have data. The user can then choose a hospital, where they will then see a list of the different ailments. Once the user chooses a specific ailment to look at, they will see the payment and value of care information for that particular illness at that specific hospital. I think this is the best way to do it because the hospitals have data for different ailments. I also think it would be

a good idea to have a hospital information tab, where the user can choose a specific hospital and it will display the address and phone information for the hospital.