

CS157A Project Third Normal Form

Third normal form is when all attributes are single value, attributes rely on the UID for all value, and when attributes do not rely on non-UID attributes for values.

The tables Country, Zip, State, Work_Status, and Occupation do not rely on other tables for its values. Thus, they are our reference tables for information needed to achieve 3NF for the patient and visits table.

The patient table has THC as its primary key, which then gives us the information corresponding to the patient: name, DOB, gender, phone etc. For the zip, state, and country, we referred to their respective tables so third normal form is maintained. We used the THC number as the UID because each patient has their own THC and there will be no duplicate numbers.

The Visit table uses an ID that is the primary key, which refers to the visit of a specific patient. The ID will provide all information regarding that visit, which is the filled fields of the form. We used the Visit ID because each visit ID will correspond to a specific visit from a specific patient.

To store our patient demographics, we created a new table with all the information needed. We used the THC as the identifier which referred to all the other information that was filled out in the form. Similarly to the patient table, the THC was the UID because it is different for every user, but provides us with all the information needed to retrieve the table columns.