Database Design

Gaby Frayjo

For my project I have chosen to go with a relational database design because of the relationships of which for which the data can be displayed to the users. There may be instances where some data will be a one to one, one to many, and/or a many to many relationships with some tables possibly having a join. Because my app focuses on providing users with healthcare resources, some providers and/or facilities may have partnerships or provide services at more than one location.

Because of the different types of relationships, the use of primary and foreign keys, and the need for data normalization will be necessary. It would be best suited to have a relational database like PostgreSQL to store and retrieve data based on relationships.

Based on recent feedback from both my peer and instructor, there will be changes to the design of my tables within my database. The changes will include removing the demographics from each of the individual tables and creating a table specific to demographics. This will allow for one to many and a many to many relationships within the tables. In addition, I will be including a description column for all Provider, Facility, BH Facility, and Hospital tables to provide the users with a description of what services are offered at each location. In the formSubmission table I will be adding an additional column that supports a category. This will allow users to choose the category for which they are wanting to contact the owner of the application.

Demographics Table

Id	Int identity – Primary Key
Address	Varchar(150)
City	Varchar(100)
State	Varchar(100)
Zip	Int(10)
Phone	Int(10)
Url	NVarchar(100)

Provider Table –

The following table retrieves all queries that are specific to searching for a Healthcare Provider

providerID	Int identity – Primary Key
ProviderName	Varchar(100)
ProviderSpecialty	Varchar(100)
providerDesc	Varchar(max)
demographicsId	Foreign Key

Facility Table –

The following table retrieves all queries that are specific to searching for a Community Health Center

facilityID	Int identity – Primary Key
facilityName	Varchar(100)
facilitySpecialty	Varchar(100)
facilityDesc	Varchar(max)

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demographicsId	Foreign Key

BHFacility Table –

The following table retrieves all queries that are specific to searching for BH Providers/Facilities

BHfacilityID	Int identity – Primary Key
BHfacilityName	Varchar(100)
BHSpecialty	Varchar(100)
BHfacilityDesc	Varchar(max)
demographicsId	Foreign Key

Hospital Table –

The following table retrieves all queries that are specific to searching for a Healthcare Provider

hospitalID	Int identity – Primary Key
HospitalName	Varchar(100)
hospitalSpecialty	Varchar(100)
hospitalDesc	Varchar(max)
demographicsId	Foreign Key

FormSubmissions Table –

Creates a new record or item when a comment or suggestion is submitted through the Contact Us fillable form.

Id	Int identity – Primary Key
firstName	Varchar(50)
lastName	Varchar(50)
Email	Varchar(100)
Phone	Int(10)
Category	Varchar(50)
Comments	Varchar(max)