Patient Table: This table contains all patient information, including ID, first and last name, and date of birth. It is the primary table that all other information will connect to and will hold all patient records.

Device Table: This table contains all devices connected to a patient's account. The primary key is currently the instrumentID, but this may change based on how the devices are differentiated. Other columns include errorServiceCode (not required), Patient\_ID (a foreign key from the Patient Table), GSID, and test\_ID (a foreign key from the next table).

Test Table: This table serves as a connection point to the rest of the information. Each device will only perform one test, but this table allows for each device to perform an infinite number of tests. The primary key is the test\_ID, an integer created to keep track of each test. OperatorID is a given 13-character string from the XML file. fluid\_ID is a foreign key to the Fluid Method table, and calibration\_ID, time\_ID, and well\_reference\_ID are foreign keys to their respective tables.

Cartridge Table: This table holds the GSID and Assay\_Name and links to the Test Table using test\_ID. Assay\_Name is a 20-character string.

Fluid Method Table: This table contains information about the fluid data. The primary key is fluid\_ID, created in this table and referenced in the Test Table. SampleName is a 13-character string, and Method\_name, eChemName, and washName are all 20-character strings. Incubation is the final integer.

Calibration Setting Table: Calibration\_ID is the primary key for this table, and each data column is of type integer.

Test Time Table: This table uses the created primary key time\_ID and holds date information in three columns: Date for calendar date, Time, and TimeZone in a single integer form.

Well Reference Table: This table holds all samples taken in each test. It has only two columns: the created primary key for the table well\_reference\_ID, and well\_ID, which is the ID for each well.

Well Info Table: This table contains information for each well. The first column is the well\_ID, which is a created primary key. Well\_info is a large string of space for 4000 characters that will hold the JSON text containing the information for the well. This is done so that the information can be provided in varying formats.

Well Data Table: This table holds all JSON data for each well, and well\_ID is the ID for each well. It allows for different formats for the data in the future.