The overarching database design was to try and keep things as simple as possible. We did not have extensive experience building databases, so our keys are always just IDs and every piece of information needed in the back end is bundled in a way that is similar to the database as well.

Medication(String name, String purpose, String side effects, ID id)

Patient(String name, String pharmacy, String drug\_allergies, ID patientID, ID physicianID, String login, String password)

Physician(String name, ID physicianID, String hospital, String login, String password)

Prescription(ID patientID, ID physicianID, Integer general\_time, String medication, Boolean set, ID id, String day\_to\_take, Integer dose, String dose\_description)

Schedule(String time\_to\_take, String day\_to\_take, ID patientID, String medication, ID id, Integer dose, String dose\_description)

ID is a specific data type the MySQL database that DreamFactory uses to parse a lot of the data and structure things a way that are user friendly.

Much of the data types are strings due to the way that DreamFactory handles specific SQL data types. It was simply easier for us to hack together a solution using already agreed upon syntax than to deal with figuring out why it wasn’t working.