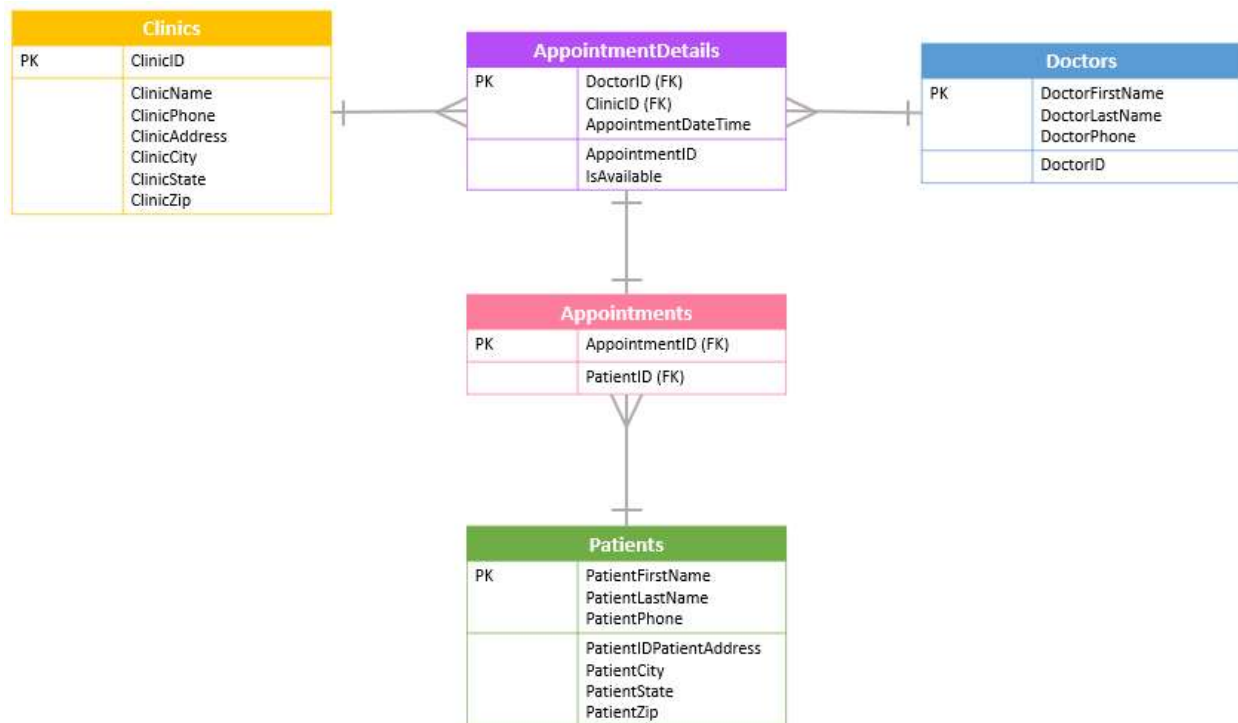Arghya Kannadaguli
June 6, 2020
INFO 330
Assignment 07

INFO 330 Final: Milestone 01

Entity Relationship Diagram
(ERD colors correspond with cell shading in metadata spreadsheet, for easier viewing.)

Rationale

I used multi-field Primary Keys in several of the tables because each row in those tables should have unique combinations of the Primary Key fields to avoid duplicating inserted data. I still included ID columns for those tables because they're foreign keys for other tables.

The AppointmentDetails table is going to hold all available combinations of doctors, clinics, and AppointmentDateTimes. When the user tries to enter a new appointment entity, the sproc for inserting appointments (that I'll make in the future) will test first whether an appointment with the requested doctor/clinic/datetime combination exists. If it does, the sproc will test whether the IsAvailable column value corresponding to that combination is 1, and then

decide whether to reserve the requested appointment (and change the IsAvailable value to 0) or return a message to the user that the appointment is unavailable. I think it will go something like that.

I also noticed the application has a calendar display on it. The AppointmentDetails table and its IsAvailable column could also be helpful to the app developer by letting them mark the available appointments onto the calendar. Being able to see appointments on the calendar would be a helpful features for users to have as well.