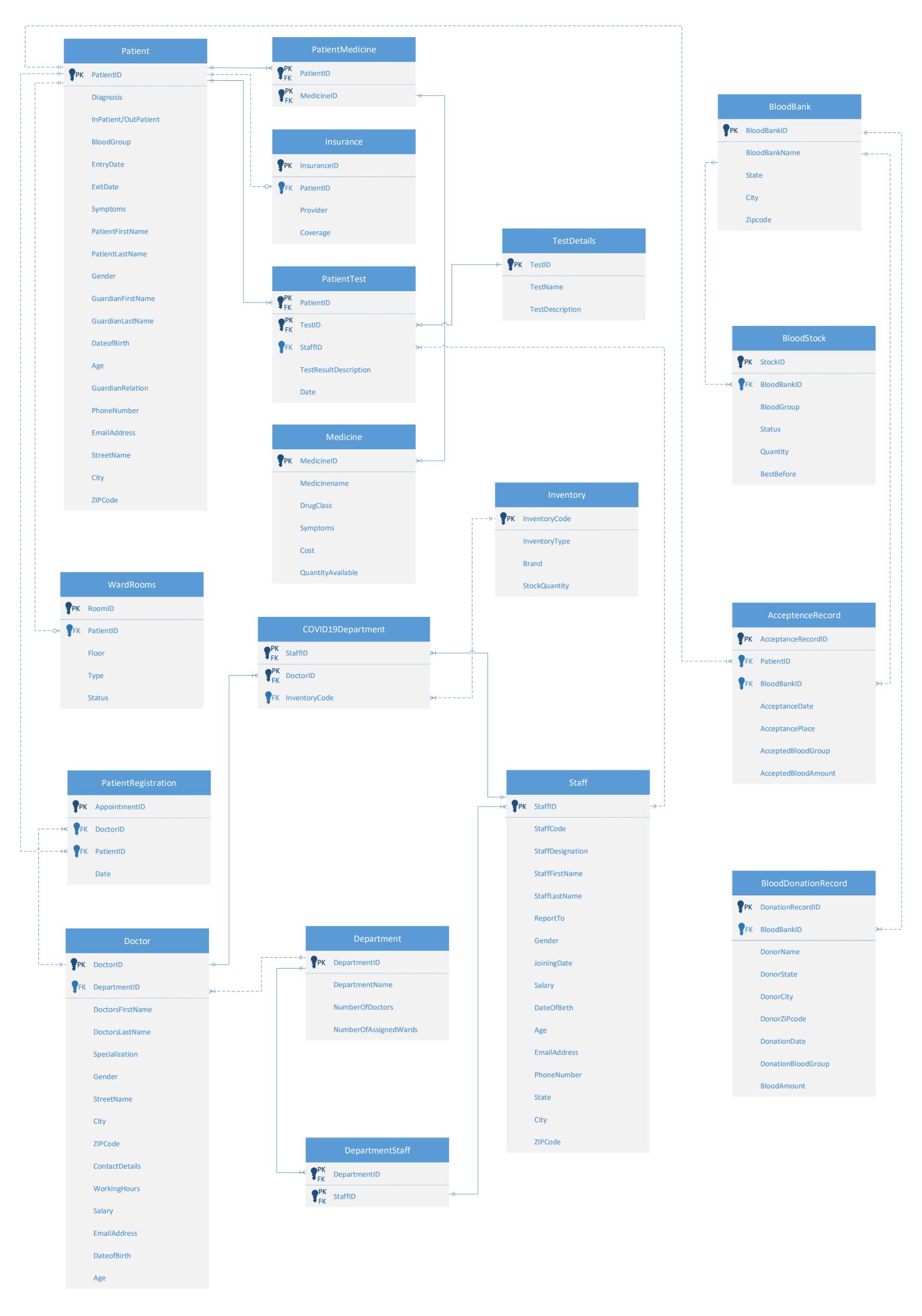
PROJECT GROUP – 10

INFO 6210: HOSPITAL MANAGEMENT SYSTEM

Final ERD

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Updates made to Initial ERD

Added Schemas:

- 1. BloodBank
 - a. AcceptanceRecord
 - b. BloodBank
 - c. BloodDonationRecord
 - d. BloodStock
- 2. COVID
 - a. COVID19Department
 - b. Inventory
 - c. View 1: COVID_Patient
- 3. Departments
 - a. Department
 - b. DepartmentStaff
 - c. Staff
 - d. View 2: StaffAllocations
- 4. Doctors
 - a. Doctor
- Medicine
 - a. Medicine
 - b. Patient Medicine
- 6. Patient:
 - a. Insurance
 - b. Patient
 - c. PatientRegistration
 - d. PatientTest
 - e. WardRooms
- 7. Test
 - a. TestDetails

Modified Entities:

- 1. The relationship connecting lines were updated to point to the attributes in each entity that were used to form the relationship.
- 2. PatientTest, TestResult and TestAdministrator were combined to form the PatientTest Entity.
- 3. PatientRegistration and PatientDoctor were combined as a single entity PatientRegistration.
- 4. AdminStaff was removed.
- 5. BloodBankID attribute has been added to BloodStock, AcceptanceRecord and BloodDonationRecord entities.

Changed relationship multiplicity:

- 1. The relationship multiplicity between Patient and PatientRegistration was changed to one-to-many, with many on PatientRegistration. A patient may have several appointments.
- 2. The one-to-many relationship between Department and DepartmentStaff was reversed, with many on DepartmentStaff.
- 3. The relationship multiplicity between Patient and AcceptanceRecord was changed to one-to-many, with many on AcceptanceRecord as a patient may have several blood donation acceptance records.
- 4. The relationship multiplicity between BloodBank and BloodStock was changed to one to many, many on the BloodStock side.

Changed to non-identifying relationship between:

- 1. Doctor and Department
- 2. Doctor and PatientRegistration
- 3. Patient and PatientRegistration
- 4. Patient and Insurance
- 5. Patient and WardRooms
- 6. COVID19Department and Inventory
- 7. PatientTest and Staff
- 8. BloodBank and BloodStock
- 9. BloodBank and AcceptanceRecord
- 10. BloodBank and BloodDonationRecord

Added/Deleted/Modified Attributes/Columns:

- 1. All Foreign Keys placed right below the primary keys for ease of reference.
- 2. RoomID, DoctorID and AppointmentID were removed from Patient Entity and Symptoms was added.
- 3. A computed column (Age) was added to Doctor, Staff and Patient Entities.
- 4. PatientID attribute was added to the PatientRegistration entity as a Foreign Key and removed from the Patient entity.
- 5. DepartmentID attribute was removed from the Staff entity.
- 6. DonorID attribute was removed from the BloodBank entity.
- 7. Merged DonationDate and DonationTime in BloodDonationRecord entity to DonationDate to show both Date and Time.
- 8. Columns State, City and Zip Code were added to BloodBank entity.
- 9. Merged AcceptanceDate and AcceptanceTime in AcceptenceRecord entity to AcceptanceDate to show both Date and Time.