

Employee: (<u>UniqueID</u> , Name, CertificationNum) Primary key: { <u>UniqueID</u> } EmployeePhoneNums(<u>EmpID</u> , <u>Phone</u>) Primary key: { <u>EmpID</u> , <u>Phone</u> } Foreign key: {EmpID references Employee(UniqueID)} EmployeeAddresses(<u>EmpID</u> , <u>Address</u>) Primary key: { <u>EmpID</u> , <u>Address</u> } Foreign key: {EmpID references Employee(UniqueID)}
Nurse(<u>NurNum</u>) Primary key: {NurNum} Foreign key: {NurNum references Employee(UniqueID)}
Physician(<u>PhyNum</u> , FieldOfExperience) Primary key: {PhyNum} Foreign key: {PhyNum references Employee(UniqueID)}
Room(<u>RoomNum</u> , Capacity, Price) Primary key: {RoomNum}
Patient(<u>PatID</u> , PhysAssigned, RoomAssigned, Name) Primary key: {PatID} Foreign key: {PhysAssigned references Physician(PhyNum), RoomAssigned references Room(RoomNum)} PatientPhoneNums(<u>PID</u> , <u>Phone</u>) Primary key: {PID, Phone} Foreign key: {PID references Patient(PatID)} PatientAddresses(<u>PID</u> , <u>Address</u>) Primary key: {PID, Address} Foreign key: {PID references Patient(PatID)}
Instructions(<u>UniqueID</u> , PhysPrescribed, Price, Description, Date_ordered) Primary key: {UniqueID} Foreign key: {PhysPrescribed references Physician(PhyNum)}
Orders(<u>PhysicianID</u> , <u>PatientID</u> , <u>InstructionID</u> , Date) Primary key: {PhysicianID, PatientID} Foreign key: {PhysicianID references Physician(PhyNum), PatientID references Patient(PatID), InstructionID references Instructions(UniqueID)}
Medication(<u>ProductNum</u> , Dose, Name, Price) Primary key: {ProductNum}
Administers_Medicine(<u>AdminID</u> , <u>NurseID</u> , <u>MedicineID</u> , <u>PatientGiven</u>) Primary key: {AdminID, NurseID, ProductID, PatientGiven} Foreign key: {NurseID references Nurse(NurNum), MedicineID references Medication(ProductNum), PatientGiven references Patient(PatID)}
Health_Record(<u>RecordID</u> , <u>PatientID</u> , Status, Date, Description) Primary key: {RecordID, PatientID} Foreign key: {PatientID references Patient(PatID)} Diseases(<u>PID</u> , <u>Disease</u>) Primary key: {PID, Disease} Foreign key: {PID references Health_Record(PatientID)}
Invoice_Payable(<u>InvoiceNum</u> , PatientTreated, RoomOccupied, InstructionsPerformed, MedicineGiven, Date, Amount, Fee) Primary key: {InvoiceNum} Foreign key: {PatientTreated references Patient(PatID), RoomOccupied references Room(RoomNum), InstructionsPerformed references Instructions(UniqueID), MedicineGiven references Administers_Medicine(AdminID) }
Nurse_Executes_Instructions(<u>NurseID</u> , <u>InstructionID</u> , <u>PatientID</u> , Date, Status) Primary key: {NurseID, InstructionID, PatientID} Foreign key: {NurseID references Nurse(NurNum), InstructionID references Instructions(UniqueID), PatientID references Patient(PatID)}
Physician_Moniors(<u>PhysicianID</u> , <u>PatientID</u> , <u>DurationInHours</u>) Primary key: {PhysicianID, PatientID} Foreign key: {PhysicianID references Physician(PhyNum), PatientID references Patient(PatID)}

Assumptions:

- Added an attribute for medicine price for any in-house given medicine which can be referenced in invoice payable.
- Created Relations, shaded in blue, for multivariable attributes.