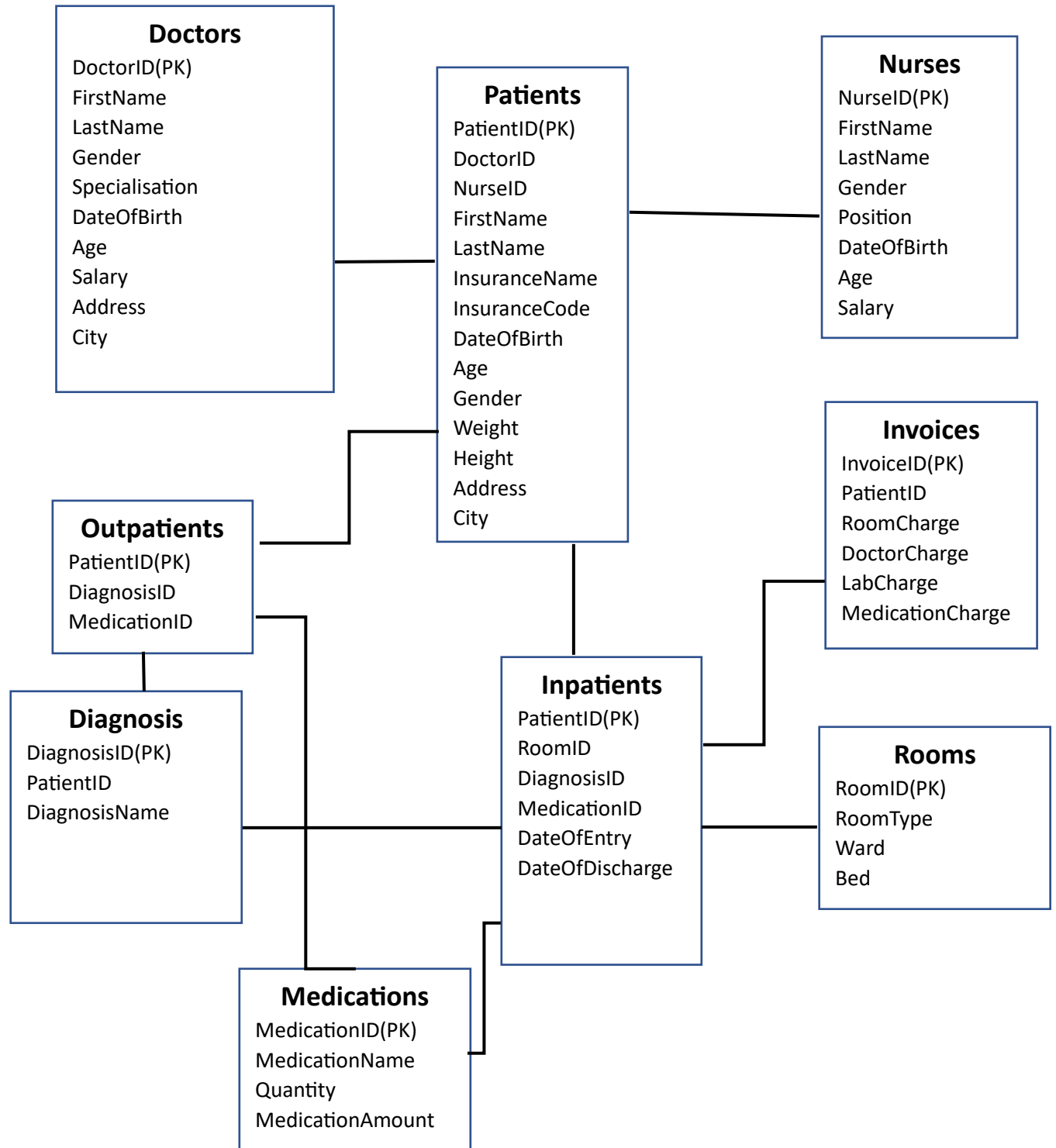


HOSPITAL DATABASE By Nyengeterayi

Mawire(w66964)



Relationships

1. Doctors and Patients: (1 to Many). One doctor can have many patients but 1 patient can only be assigned 1 doctor.
2. Nurses and Patients: (1 to Many). One nurse can have many patients but 1 patient can only be assigned 1 nurse.
3. Inpatients and Rooms: (Many to 1). Many patients can be assigned to 1 room, but 1 patient cannot be assigned to many rooms.
4. Inpatients and Invoices: (1 to 1). Only 1 invoice can be assigned to 1 patient and vice versa.

SQL CODE

- Creation Of Database called Hospital

Create Database Hospital

```
Create table Doctors(  
DoctorID int not null PRIMARY KEY,  
FirstName varchar(20) not null,  
LastName varchar(20) not null,  
Gender varchar(10) not null,  
Specialisation varchar(20) not null,  
DateOfBirth date not null,  
Age int not null,  
Salary int not null,  
Address varchar(24) ,  
City varchar(24)  
)
```

```
Create table Patients(  
PatientID int not null PRIMARY KEY ,  
DoctorID int,  
NurseID int,
```

```
FirstName varchar(20) not null,  
LastName varchar(20) not null,  
InsuranceName varchar(20),  
InsuranceCode varchar(20),  
Gender varchar(10) not null,  
DateOfBirth date not null,  
Age int not null,  
Weight decimal not null,  
Height decimal not null,  
Address varchar(24) ,  
City varchar(24),  
FOREIGN KEY (DoctorID) REFERENCES Doctors(DoctorID)  
FOREIGN KEY (NurseID) REFERENCES Nurses(NurseID))  
)
```

```
Create table Nurses(  
NurseID int not null ,  
FirstName varchar(20) not null,  
LastName varchar(20) not null,  
Gender varchar(10) not null,  
Position varchar(20) not null,  
DateOfBirth date not null,  
Age int not null,  
Salary int not null,  
Address varchar(24) ,  
City varchar(24),  
Constraint PK_Nurse PRIMARY KEY (NurseID)  
)
```

```
Create table Diagnosis(  
DiagnosisID int not null PRIMARY KEY,  
PatientID int  
DiagnosisName varchar(30),  
FOREIGN KEY (PatientID) REFERENCES Patients(PatientID))
```

)

```
Create table Medications(  
MedicationID int not null PRIMARY KEY,  
PatientID int not null,  
MedicationName varchar(30),  
)
```

```
Create table Inpatients(  
PatientID int not null,  
RoomID int not nul,  
DiagnosisID int not null,  
MedicationID int,  
DateOfEntry date not null,  
DateOfDischarge date not null,  
FOREIGN KEY (PatientID) REFERENCES Patients(PatientID))  
FOREIGN KEY (RoomID) REFERENCES Rooms(RoomID))  
FOREIGN KEY (DiagnosisID) REFERENCES Diiagnosis(DiagnosisID))  
FOREIGN KEY (MedicationID) REFERENCES Medications(Medication  
ID))
```

)

```
Create table OutPatients(  
PatientID int not null,  
DiagnosisID int,  
MedicationID int,  
FOREIGN KEY (PatientID) REFERENCES Patients(PatientID)),  
FOREIGN KEY (DiagnosisID) REFERENCES Diiagnosis(DiagnosisID))  
,  
FOREIGN KEY (MedicationID) REFERENCES Medications(Medication  
ID))  
)
```

```
Create table Rooms(  

```

```
RoomID int not null,  
RoomType varchar(20),  
Ward varchar (24),  
Bed int not null,  
)
```

```
Create table Invoices(  
InvoiceID int not null PRIMARY KEY,  
PatientID int,  
RoomCharge int not null,  
DoctorCharge int not null,  
LabCharge int not null,  
MedicationCharge int not null,  
FOREIGN KEY (PatientID) REFERENCES Patients(PatientID))  
)
```

JOINING TABLE QUERY

```
Select*  
From Patients  
Join Doctors ON Patients.DoctorID = Doctors.DoctorID  
Join Nurses ON Patients.NurseID = Nurses.NurseID
```

```
Select*  
From Invoices  
Join InPatients ON Invoices.PatientID = InPatients.PatientID
```

```
Select*  
From InPatients  
Join Patients ON InPatients.PatientID = Patients.PatientID  
Join Medications ON InPatients.MedicationID = Medications.MedicationID  
Join Rooms ON InPatients.RoomID = Rooms.RoomID  
Join Diagnosis ON InPatient.DiagnosisID = Diagnosis.DiagnosisID
```

Select*

From Diagnosis

Join InPatients ON Diagnosis.PatientID = InPatients.PatientID

Join OutPatients ON Diagnosis.PatientID = OutPatients.PatientID

Select*

From OutPatients

Join Patients ON OutPatients.PatientID = Patients.PatientID

Join Diagnosis ON OutPatients.PatientID = Diagnosis.PatientID

Join Medications ON OutPatients.PatientID = Medications.PatientID