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Step 3 and 4: Databases and Data mining

**Nurse:** Nurse\_Name, Address, Nurse\_ID, Salary, Patient\_ID, Sex

**Patient:** Patient\_Name, Patient\_ID, Age, Sex, Address

**Accountant:** Age, Acct\_Name, Acct\_ID, Address, Salary

**Bill:** Bill\_reason, Bill\_ID, Bill\_Total, Acct\_ID

**Medicine:** Med\_ID, Price, Company, Med\_Name, Doc\_ID, Pres\_Date, Pres\_Time

**Prescription:** Med\_ID, Date, Time, Fee

**Doctor:** Sex, Doct\_Type, Salary, Doc\_ID, Doc\_Name, Age, Salary, Address, Apt\_ID, Apt\_time, Apt\_date

**Department:** Dept\_Name, Dept\_ID

**From\_Department:** Dept\_ID, Doc\_ID

**Appointment:** Apt\_Date, Apt\_Time, Apt\_ID, Patient\_ID, Doc\_ID

**Receptionist:** Salary, Address, Recep\_ID, Age, Recep\_Name

**Admission:** Admission\_ID, Time, date, Admission, Recep\_ID, Patient\_ID

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CREATE DATABASE Hospital;

CREATE TABLE Nurse (Sex varchar(1), Nurse\_Name varchar, Street varchar, City varchar, State varchar, Zip int, Nurse\_ID int NOT NULL, Salary int, PRIMARY KEY(Nurse\_ID), FOREIGN KEY(Patient\_ID) REFERENCES Patient(Patient\_ID));

CREATE TABLE Patient(Patient\_Name varchar, Patient\_ID int NOT NULL, Age int, Sex varchar(1), Street varchar, City varchar, State varchar, Zip int, Age int, PRIMARY KEY(Patient\_ID));

CREATE TABLE Accountant(Age varchar, Acct\_Name varchar, Acct\_ID int NOT NULL, Salary int, Street varchar, City varchar, State varchar, Zip int, PRIMARY KEY(Acct\_ID));

CREATE TABLE Bill( Bill\_reason varchar,Acct\_ID int, Bill\_ID int NOT NULL, Bill\_Total int, PRIMARY KEY(Bill\_ID), FOREIGN KEY (Acct\_ID) REFERNCES Accountant(Acct\_ID));

CREATE TABLE Medicine( Med\_ID int NOT NULL, Price int, Company varchar, Med\_Name varchar, int, Pres\_Date int, Pres\_Time time, PRIMARY KEY(Med\_ID), FOREIGN KEY (Doc\_ID) REFERENCES Doctor(Doc\_ID));

CREATE TABLE Prescription (Med\_ID int NOT NULL, Date date, Time time, Fee int, FOREIGN KEY(Med\_ID) REFERENCES Medicine(Med\_ID));

CREATE Doctor( Sex varchar, Doct\_Type varchar, Salary int, Doc\_ID int NOT NULL, Doc\_Name varchar, Age int(2), Salary int, Street varchar, City varchar, State varchar, Zip int, Apt\_ID int NOT NULL, Apt\_time time, Apt\_date date, PRIMARY KEY(Doc\_ID), FOREIGN KEY(Apt\_ID) REFERENCES Appointment(Apt\_ID));

CREATE TABLE Department (Dept\_Name varchar, Dept\_ID int NOT NULL, PRIMARY KEY(Dept\_ID));

CREATE TABLE From\_Department( Dept\_ID int NOT NULL, Doc\_ID int NOT NULL, FOREIGN KEY(Dept\_ID,Doc\_ID) REFERENCES Department(Dept\_ID), Doctor(Doc\_ID));

CREATE TABLE Appointment (Apt\_Date date, Apt\_Time time, Apt\_ID NOT NULL, Patient\_ID int NOT NULL, Doc\_ID, PRIMARY KEY(Apt\_Time), REFERENCES Patient(Patient\_ID), Doctor(Doc\_ID));

CREATE TABLE Receptionist( Salary int, Street varchar, City varchar, State varchar, Zip int, Recep\_ID NOT NULL, Age, Recep\_Name, PRIMARY KEY(Recep\_ID));

CREATE TABLE Admission **(**Admission\_ID int NOT NULL, Time time, Date date, Admission time, Recep\_ID int NOT NULL, Patient\_ID int NOT NULL, FOREIGN KEY(Admission\_ID, Patient\_ID) REFERENCES Admission(Admission\_ID), Patient(Patient\_ID));