implementation Log

```
create table UrgentCare(
    FK_UrgentCareID          VARCHAR(16),
    PRIMARY KEY (FK_UrgentCareID),
    CONSTRAINT FK_UrgentCareID FOREIGN key (FK_UrgentCareID) REFERENCES MedicalFacility(FK_Fac
ilityId)
);

create table WalkIn(
    FK_UrgentCareID          VARCHAR(16),
    FK_PatientID             VARCHAR(16),
    Date                     DATE,
    Reason                   VARCHAR(100),
    PRIMARY KEY (FK_UrgentCareID, FK_PatientID, Date),
    CONSTRAINT FK_WalkInUrgentCareID FOREIGN key (FK_UrgentCareID) REFERENCES UrgentCare(FK_Ur
gentCareID),
    CONSTRAINT FK_WalkInPatientID FOREIGN key (FK_PatientID) REFERENCES Patient(PK_Id)
);

create table WorksAt(
    FK_EmployeeID            VARCHAR(16),
    FK_FacilityID            VARCHAR(16),
    Date                     DATE,
    Reason                   VARCHAR(100),
    PRIMARY KEY (FK_EmployeeID, FK_FacilityID),
    CONSTRAINT FK_WorksAtEmployeeID FOREIGN key (FK_EmployeeID) REFERENCES MedicalProfessional
(EmployeeId),
    CONSTRAINT FK_WorksAtFacilityID FOREIGN key (FK_FacilityID) REFERENCES MedicalFacility(FK_
FacilityID)
);

create table Presciption(
    PK_PrescriptionID        VARCHAR(16),
    FK_PatientID             VARCHAR(16),
    FK_EmployeeID            VARCHAR(16),
    FK_CompanyID             VARCHAR(16),
    FK_DrugID                VARCHAR(16),
    FK_PharmacyID            VARCHAR(16),
    Duration                 int,
    primary key(PK_PrescriptionID),
    constraint FK_PresciptionPatientID FOREIGN key (FK_PatientID) REFERENCES Patient(PK_Id),
    constraint FK_PresciptionEmployeeID FOREIGN key (FK_EmployeeID) REFERENCES MedicalProfessi
onal(EmployeeId),
    constraint FK_PresciptionCompanyID FOREIGN key (FK_CompanyID) REFERENCES Business(CompanyI
D),
    constraint FK_PresciptionDrugID FOREIGN key (FK_DrugID, FK_CompanyID) REFERENCES CompanyDr
ug(PK_DrugID, FK_CompanyID),
    constraint FK_PresciptionPharmacyID FOREIGN key (FK_PharmacyID) REFERENCES Pharmacy(FK_Pha
rmacyID)
);
```

implementation Log

```
CREATE TABLE Business(
    CompanyID         VARCHAR(16),
    BusinessName      VARCHAR(50),
    PhoneNumber       VARCHAR(10),
    Street            VARCHAR(50),
    Zipcode           VARCHAR(5),
    City              VARCHAR(50),
    BusinessState     VARCHAR(50),
    PRIMARY KEY (CompanyID)
);

CREATE TABLE PharmaceuticalCompany(
country               VARCHAR(2),
FK_CompanyID          VARCHAR(16),
PRIMARY KEY (FK_CompanyID),
CONSTRAINT FK_CompanyID FOREIGN KEY (FK_CompanyID)
REFERENCES Business(CompanyID)
);

CREATE TABLE Pharmacy (
    FK_PharmacyID     VARCHAR(16),
    PharmacyLicense   VARCHAR(16),
    OpeningHour       VARCHAR(30),
    ClosingHour       VARCHAR(30),
    PRIMARY KEY (FK_PharmacyID),
    CONSTRAINT FK_PharmacyID FOREIGN KEY (FK_PharmacyID)
    REFERENCES Business(CompanyID)
);


create table Patient(
    PK_Id             varchar(16) not null primary KEY,
    PhoneNumber       varchar(10),
    Name              varchar(20),
    Sex               varchar(1),
    Birthday          Date,
    Age               INTEGER
);

create table GenericDrug(
    PK_DrugId varchar(16) not null primary key
);

create table GenericDrugInteractions(
    FK_DrugId1 varchar(16),
    FK_DrugId2 varchar(16),
    Severity Integer,
    Cause varchar(100),
    primary key (FK_DrugId1, FK_DrugId2),
    CONSTRAINT FK_DrugId1 FOREIGN key (FK_DrugId1) REFERENCES GenericDrug(PK_DrugId),
    CONSTRAINT FK_DrugId2 FOREIGN key (FK_DrugId2) REFERENCES GenericDrug(PK_DrugId)
);
```

implementation Log

```
create table GenericDrugSideEffects(
    FK_DrugId               varchar(16),
    SideEffect              varchar(100),
    primary key(FK_DrugId)
);

create table Hospital(
    FK_HospitalId           varchar(16),
    primary key(FK_HospitalId),
    CONSTRAINT FK_HospitalKey FOREIGN key (FK_HospitalId) REFERENCES MedicalFacility(FK_Facili
tyId)
);

create table MedicalFacility(
    FK_FacilityId           varchar(16),
    primary key(FK_FacilityId),
    constraint FK_FacilityKey foreign key (FK_FacilityId) REFERENCES Business(CompanyID)
);

create table MedicalResearchFacility(
    FK_ResearchFacilityId   varchar(16),
    Funding                 INTEGER,
    ResearchSpecialty       varchar(50)
    primary key(FK_ResearchFacilityId),
    constraint FK_ResearchFacilityKey foreign key (FK_ResearchFacilityId) REFERENCES MedicalFa
cility(FK_FacilityId)
);


create table MedicalProfessional(
    EmployeeId              varchar(16),
    primary key(EmployeeId)
);

create table NursePractitioner(
    FK_EmployeeId           varchar(16),
    Certification           varchar(40),
    primary key(FK_EmployeeId),
    CONSTRAINT FK_EmployeeKey FOREIGN key (FK_EmployeeId) REFERENCES MedicalProfessional(Emplo
yeeId)
);

create table PhysicianAssistant(
    FK_EmployeeId           varchar(16),
    MsDegree                varchar(40),
    primary key (FK_EmployeeId),
    CONSTRAINT FK_EmployeePhysicianAssistantKey FOREIGN key (FK_EmployeeId) REFERENCES Medical
Professional(EmployeeId)
);
```

implementation Log

```
create table Researcher(
    FK_EmployeeId     varchar(16),
    ResearchArea      varchar(20),
    primary key(FK_EmployeeId),
    CONSTRAINT FK_EmployeeResearcherKey FOREIGN key (FK_EmployeeId) REFERENCES MedicalProfessi
onal(EmployeeId)
);

create table Surgery(
    Date Date,
    FK_PatientId      varchar(16),
    FK_HospitalId     varchar(16),
    Cost              INTEGER,
    Name              varchar(20),
    primary key(Date, FK_PatientId, FK_HospitalId),
    CONSTRAINT FK_SurgeryPatientID FOREIGN key (FK_PatientId) REFERENCES Patient(PK_Id),
    CONSTRAINT FK_SurgeryHospitalId FOREIGN key (FK_HospitalId) REFERENCES Hospital(FK_Hospita
lId)
);

create table Receives(
    PK_Date           Date,
    FK_DrugId         varchar(16),
    FK_CompanyID      varchar(16),
    FK_PharmacyId     varchar(16),
    primary key(PK_Date, FK_DrugId, FK_CompanyID,FK_PharmacyId),
    constraint FK_CompanyDrugKey FOREIGN key (FK_DrugId,FK_CompanyID) REFERENCES CompanyDrug(P
K_DrugID, FK_CompanyID),
    constraint FK_ReceivePharmacyKey FOREIGN key (FK_PharmacyId) REFERENCES Pharmacy(FK_Pharma
cyID)
);
```