Step 1: Having Same LHS into same group:

PatNo -> PatAge,PatZip9

PatZip9 -> PatCity

VistiNo -> VisitDate,PatNo

ProvNo -> ProvSpeciality,ProvEmail

VisitNo,ProvNo -> Diagnosis

ProvEmail -> ProvNo

6 FD Groups are there

Step 2: For each FD group, make table and set PK and FK.PK are underlined and in bold. Table Name is in Italic.

Patient(PatNo,PatAge,PatZip9)

FOREIGN KEY(PatZip9) REFERENCES PatientZip

PatientZip(PatZip9, PatCity)

Visit(VisitNo, VisitDate, PatNo)

FOREIGN KEY(PatNo) REFERENCES Patient

Provider(ProvNo, ProvSpeciality, ProvEmail)

FOREIGN KEY(ProvEmail) REFERENCES ProviderEmail

ProvVisit(ProvNo,VIsitNo,Diagnosis)

FOREIGN KEY(ProvNo) REFERENCES Provider

FOREIGN KEY(VisitNo) REFERENCES Visit

ProviderEmail(ProvEmail, ProvNo)

FOREIGN KEY(ProvNo) REFERENCES Provider

Step 3: Merge tables:

Merge Provider and ProviderEmail and Unique(ProvEmail)

Patient(PatNo, PatAge, PatZip9)

FOREIGN KEY(PatZip9) REFERENCES PatientZip

PatientZip(PatZip9, PatCity)

Visit(VisitNo, VisitDate, PatNo)

FOREIGN KEY(PatNo) REFERENCES Patient

Provider(ProvNo, ProvSpeciality, ProvEmail)

UNIQUE(ProvEmail)

ProvVisit(ProvNo,VIsitNo,Diagnosis)

FOREIGN KEY(ProvNo) REFERENCES Provider

FOREIGN KEY(VisitNo) REFERENCES Visit