**1: Arrange the FDs :**

PatNo :PatAge, PatZip9

PatZip9 : PatCity

VisitNo : VisitDate, PatNo

ProvNo : ProvSpecialty, ProvEmail

VisitNo, ProvNo :Diagnosis

ProvEmail : ProvNo

2: **Define Tables**. In the table list, the primary keys are underlined.

Patient (PatNo, PatAge, PatZip9)

FOREIGN KEY (PatZip9) REFERENCES Zip

Zip (PatZip9, PatCity)

Visit (VisitNo, VisitDate, PatNo)

FOREIGN KEY (PatNo) REFERENCES Patient

Provider (ProvNo, ProvSpecialty, ProvEmail)

FOREIGN KEY(ProvEmail) REFERENCES ProviderEmail

ProviderEmail(ProvEmail,ProvNo)

FOREIGN KEY(ProvNo)REFERENCES Provider

Results (VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (VisitNo) REFERENCES Visit

FOREIGN KEY (ProvNo) REFERENCES Provider

3: **Merge tables with the same columns.**

Patient (PatNo, PatAge, PatZip9)

FOREIGN KEY (PatZip9) REFERENCES Zip

Zip (PatZip9, PatCity)

Visit (VisitNo, VisitDate, PatNo)

FOREIGN KEY (PatNo) REFERENCES Patient

Provider (ProvNo, ProvSpecialty, ProvEmail)

UNIQUE ProvEmail

Results (VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (VisitNo) REFERENCES Visit

FOREIGN KEY (ProvNo) REFERENCES Provider