Step 1: Arrange the remaining FDs into groups by determinant

PatNo → PatAge, PatZip9

PatZip9 → PatCity

VisitNo → VisitDate, PatNo

ProvNo → ProvSpecialty, ProvEmail

VisitNo, ProvNo → Diagnosis

ProvEmail → ProvNo

Step 2: For each FD group, make a table with the determinant as the primary key. In the table

list, the primary keys are underlined.

Patient(PatNo, PatAge, PatZip9)

FOREIGN KEY(PatZip9) REFRENCES ZipCode

ZipCode(PatZip9, PatCity)

Visit(VisitNo, VisitDate, PatNo)

FOREIGN KEY(PatNo) REFERENCES Patient

Prov(ProvNo, ProvSpeciality, ProvEmail)

ProvEmail(ProvEmail, ProvNo)

FOREIGN KEY (ProvNo) REFRENCES Prov

ProvVisit(VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (VisitNo) REFERENCES Visit

FOREIGN KEY (ProvNo) REFRENCES Prov

Step 3: Merge tables with the same columns.

**Prov, ProvEmail are merged**

Prov(ProvNo, ProvSpeciality, ProvEmail)

Patient(PatNo, PatAge, PatZip9)

FOREIGN KEY(PatZip9) REFRENCES ZipCode

ZipCode(PatZip9, PatCity)

Visit(VisitNo, VisitDate, PatNo)

FOREIGN KEY(PatNo) REFERENCES Patient

ProvVisit(VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (VisitNo) REFERENCES Visit

FOREIGN KEY (ProvNo) REFRENCES Prov