Assignment 11 pb2

**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) REFERENCES Address

Address(PatZip9 , PatCity)

Visit(VisitNo ,VisitDate , PatNo)

FOREIGN KEY (PatNo) REFERENCES Patient

Prov(ProvNo, ProvSpecialty, ProvEmail)

FOREIGN KEY (ProvEmail) REFERENCES ProvEmailNo

Diag(VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (ProvNo) REFERENCES Prov

FOREIGN KEY (VisitNo) REFERENCES Visit

ProvEmailNo(ProvEmail,ProvNo)

FOREIGN KEY (ProvNo) REFERENCES Prov

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

Patient(PatNo, PatAge, PatZip9)

FOREIGN KEY (PatZip9) REFERENCES Address

Address(PatZip9 , PatCity)

Visit(VisitNo ,VisitDate , PatNo)

FOREIGN KEY (PatNo) REFERENCES Patient

Prov(ProvNo, ProvSpecialty, ProvEmail)

FOREIGN KEY (ProvEmail) REFERENCES ProvEmailNo

Unique ProvEmail

Diag(VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (ProvNo) REFERENCES Prov

FOREIGN KEY (VisitNo) REFERENCES Visit