Ques 2:

**Step 1: Arrange FDs into group by determinants:**

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.** Patient(PatNo,PatZip9)

FOREIGNKEY(PatZip9) REFERENCES ZipCode(PatZip9)

ZipCode(PatZip9, PatCity)

Visits(VisitNo, PatNo)

FOREIGNKEY(PatNo) REFERENCES Patient(PatNo)

Provision(ProvNo, ProvSpeciality, ProvEmail)

FOREIGNKEY(ProvEmail) REFERENCES ProvisionEmail(ProvEmail)

ProvisionEmail(ProvEmail, ProvNo)

FOREIGNKEY(ProvNo) REFERENCES Provision(ProvNo)

Diagnose(VisitNo,ProvNo,Diagnosis)

FOREIGNKEY(ProvNo) REFERENCES Provision(ProvNo)

FOREIGNKEY(VisitNo) REFERENCES Visits (VisitNo)

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

Patient(PatNo,PatZip9)

FOREIGNKEY(PatZip9) REFERENCES ZipCode(PatZip9)

ZipCode(PatZip9, PatCity)

Visits(VisitNo, PatNo)

FOREIGNKEY(PatNo) REFERENCES Patient(PatNo)

Provision(ProvNo, ProvSpeciality, ProvEmail)

FOREIGNKEY(ProvEmail) REFERENCES ProvisionEmail(ProvEmail)

UNIQUE(ProvEmail)

Diagnose(VisitNo,ProvNo,Diagnosis)

FOREIGNKEY(ProvNo) REFERENCES Provision(ProvNo)

FOREIGNKEY(VisitNo) REFERENCES Visits (VisitNo)