Prob 2

Valid FDs

PatNo -> PatAge, PatZip

PatZip -> PatCity

VisitNo -> VisitDate, PatNo

ProvNo -> ProvSpeciality, ProvEmail

VisitNo, ProvNo -> Diagnosis

BCNF Tables

PationTable1 (PatNo, PatAge, PatZip)

FOREIGN KEY (PatZip) REFERENCES PationTable1­1

PationTable1­1 (PatZip, PatCity)

PationTable2 (VisitNo, PatNo,VisitDate)

FOREIGN KEY (PatNo) REFERENCES PationTable1

PationTable3 (ProvNo, ProvEmail, ProvSpecialty)

UNIQUE(ProvEmail)

PationTable4 (ProvNo, VisitNo,Diagnosis)

FOREIGN KEY (ProvNo) REFERENCES PationTable3

FOREIGN KEY (VisitNo)REFERENCES PationTable2