Assignment 11

Problem 2

Step 1: Grouping FD’s

PatNo PatAge, PatZip9

PatZip9 PatCity

VisitNo VisitDate, PatNo

ProvNo ProvSpeciality, ProvEmail

ProvEmail ProvNo

VisitNo, ProvNo Diagnosis

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.

Plot (PatNo, PatAge, PatZip9)

FOREIGN KEY (PatZip9) REFERENCES Plotmail

Plotmal (PatZip9, PatCity)

Visit (VisitNo, VisitDate, PatNo)

FOREIGN KEY (PatNo) REFERENCES Plot

Provider (ProvNo, ProvSpeciality, ProvEmail)

FOREIGN KEY (ProvEmail) REFERENCES Providermail

Providermail (ProvEmail, ProvNo)

FOREIGN KEY (ProvNo) REFERNECES Provider

Number (VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (VisitNo) REFERENCES Visit

FOREIGN KEY (ProvNo) REFERENCES Provider

Step 3: Merge Tables and columns. The Provider and Providermail are merged. UINQUE constraint is attached to ProvEmail.

Plot (PatNo, PatAge, PatZip9)

FOREIGN KEY (PatZip9) REFERENCES Plotmail

Plotmal (PatZip9, PatCity)

Visit (VisitNo, VisitDate, PatNo)

FOREIGN KEY (PatNo) REFERENCES Plot

Provider (ProvNo, ProvSpeciality, ProvEmail)

UNIQUE (ProvEmail)

FOREIGN KEY (ProvEmail) REFERENCES Providermail

Number (VisitNo, ProvNo, Diagnosis)

FOREIGN KEY (VisitNo) REFERENCES Visit

FOREIGN KEY (ProvNo) REFERENCES Provider