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Step 1: Group FDs based on Determinants

PatNo - > PatAge,PatZip9

PatZip9 - > PatCity

VisitNo -> VisitDate,PatNo

ProvNo -> ProvSpeciality, ProvEmail

ProvEmail -> ProvNo

VisitNo,ProvNo -> Diagnosis

Step 2: Define tables with Pks And Fks

Patient table:

Columns : PatNo,PatAge,PatZip9

PK : PatNo

FK : PatZip9 refers Zip

Zip table:

Columns: PatZip9,PatCity

PK : PatZip9

FK : -

Visit table:

Columns: VisitNo,VisitDate,PatNo

PK : VisitNo

FK : PatNo refers Patient

Prov Table:

Columns : ProvNo,ProvSpeciality,ProvEmail

PK : ProvNo

FK : -

PEmail table:

Columns : ProvEmail,ProvNo

PK : ProvEmail

FK : ProvNo refers Prov

Diagnosis table:

Columns : VisitNo,ProvNo,Diagnosis

PK : VisitNo,ProvNo

FK : VisitNo refers Visit, ProvNo refers Prov

Step 3 : Merging Tables

PEmail table is merged into Prov table as columns are subsets

Thus 5 tables are created as shown above :

Diagnosis,Prov,Visit,Patient,Zip