## TABLE 2: FDs for the big patient table

## Solution

### List of FDs

* PatNo -> PatAge, PatZip
* PatZip -> PatCity
* VisitNo -> PatNo, VisitDate
* ProvNo -> ProvSpecialty, ProvEmail
* ProvNo, VisitNo -> Diagnosis

### BCNF Tables

**Table 1**(**PatNo**, PatAge, *PatZip*)

FOREIGN KEY(PatZip) REFERENCES **Table1-1**

**Table 1.1**(**PatZip**, PatCity)

**Table 2**(**VisitNo**, *PatNo*, VisitDate)

FOREIGN KEY(PatNo) REFERENCES **Table 1**

**Table 3**(**ProvNo**, ProvSpecialty, ProvEmail)

UNIQUE(ProvEmail)

**Table 4**(ProvNo, VisitNo, Diagnosis)

FOREIGN KEY (ProvNo) REFERENCES **Table 3**

FOREIGN KEY(VisitNo) REFERENCES **Table 2**