

Functional dependencies and Normalisation

Relations and their FDs:

1. Receptionist (Sr.No, PatientID, DoctorID)
Sr.No. \rightarrow PatientID, DoctorID
2. Doctor (DoctorID, Name, Specialty, ~~PateintID, No. of patients~~)
DoctorID \rightarrow Name, PatientID, Specialty, No. of patients
3. PatientInfo (PatientID, Name, Age, Sex, Phone No., Address, Date of Visit {Day, Month, Year})
PatientID \rightarrow Name, Age, Sex, Phone No., Address, Date of Visit
4. PatientMedical (PatientID, DoctorID, Indoor/Outdoor, Medical History, Treatment/Test/Medicine, Diagnosis/Disease, Hospital Charges)
PatientID \rightarrow DoctorID, Indoor/Outdoor, Medical History, Treatment/Test/Medicine, Diagnosis/Disease, Hospital Charges
5. Nurse (NurseID, PatientID)
No FD
6. WardBoy (WBID, PatientID)
No FD
7. Room (RoomNo., PatientID, NurseID, WBID, Room Type, No. of Beds)
Room No. \rightarrow PatientID, NurseID, WBID, Room Type, No. of Beds

Normalisation:

Clearly, all the relations are already in 3-Normal Form.