Consultant
Consultant_Name   varchar(255)

Patient
Patient_No   integer(10)
Patient_Name   varchar(255)
Address   varchar(255)
Age   integer(2)
Sex   varchar(10)
ConsultantConsultant_Name   varchar(255)

NHS Patient
PatientPatient_No   integer(10)
BedBed_No   integer(10)

Consultant_Treatment
ConsultantConsultant_Name   varchar(255)
TreatmentTreatment_No   integer(10)

Bed
Bed_No   integer(10)
WardWard_Name   varchar(255)

Mandatory, Or

Private Patient
PatientPatient_No   integer(10)
Private RoomRoom_No   integer(10)

Ward
Ward_Name   varchar(255)
Ward_Type   varchar(255)
SisterSister_Name   varchar(255)

Treatment
Treatment_No   integer(10)
Description   varchar(255)
Date   date

Private Room
Room_No   integer(10)
Room_Type   varchar(255)

Sister
Sister_Name   varchar(255)

E-R Diagram

Relational Model

Consultant (**Consultant_Name**)

Treatment (**Treatment_No**, Description, Date)

Patient (**Patient_No**, Patient_Name, Address, Age, Sex, Consultant_Name)
        FOREIGN KEY Consultant_Name REFERENCES Consultant (Consultant_Name)

Private_Room (**Room_No**, Room_Type)

Private_Patient (**Patient_No**, Room_No)
        FOREIGN KEY Patient_No REFERENCES Patient (Patient_No)
        FOREIGN KEY Room_No REFERENCES Private_Room (Room_No)

Sister (**Sister_Name**)

Ward (**Ward_Name**, Ward_Type, Sister_Name)
        FOREIGN KEY Sister_Name REFERENCES Sister (Sister_Name)

Bed (**Bed_No**, Ward_Name)
        FOREIGN KEY Ward_Name REFERENCES Ward (Ward_Name)

NHS_Patient (**Patient_No**, Bed_No)
        FOREIGN KEY Patient_No REFERENCES Patient (Patient_No)
        FOREIGN KEY Bed_No REFERENCES Bed (Bed_No)

Consultant_Treatment (**Consultant_Name**, **Treatment_No**)
        FOREIGN KEY Consultant_Name REFERENCES Consultant (Consultant_Name)

FOREIGN KEY Treatment_No REFERENCES Treatment (Treatment_No)