ER Diagram:

Patient

Patient_Number	integer(10)
Name	varchar(255)
Address	varchar(255)
Age	integer(10)
Sex	varchar(255)
ConsultantConsultant_ID	integer(10)

Consultant

Consultant_ID	integer(10)
Name	varchar(255)

Treatment

Treatment_Number	integer(10)
Date	date
Description	varchar(255)
ConsultantConsultant_ID	integer(10)
PatientPatient_Number	integer(10)

Ward

Ward_ID	integer(10)
Name	integer(10)
Type	varchar(255)
Sister	varchar(255)

Mandatory, Or

Private Patient

Private RoomRoom_Number	integer(10)
PatientPatient_Number	integer(10)

NHS Patient

PatientPatient_Number	integer(10)
BedBed_Number	integer(10)
BedWardWard_ID	integer(10)

Bed

Bed_Number	integer(10)
WardWard_ID	integer(10)

Private Room

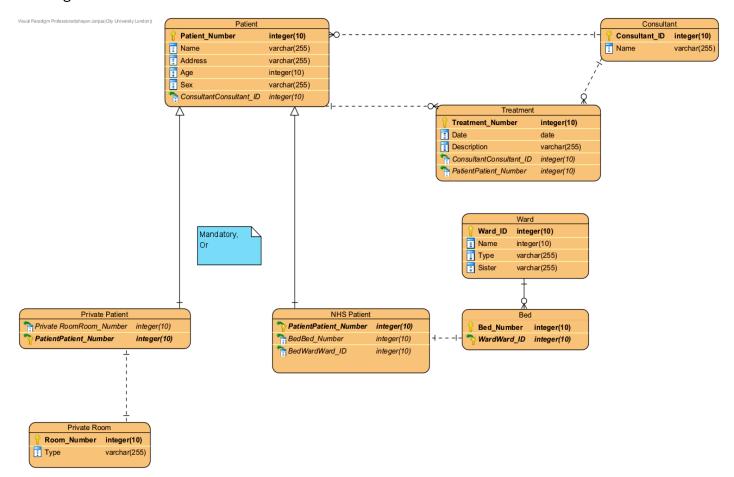| Room_Number	integer(10)
Type	varchar(255)

Relational Scheme:

Patient(Patient_Number {pk}, Name, Address, Age, Sex, ConsultantConsultant_ID{fk Consultant_ID Consultant})

Private Patient (PatientPatient_Number {pk, fk Patient_Number Patient}, Private RoomRoom_Number {fk Room_Number Private Room})

Private Room (Room_Number {pk}, Type)

NHS Patient(PatientPatient_Number {pk, fk Patient_Number Patient}, BedBed_Number {fk Bed_Number Bed}, BedWardWard_ID {fk WardWard_ID Bed})

Ward(Ward_ID {pk}, Name, Type, Sister)

Bed(Bed_Number{pk}, WardWard_ID {pk, fk Ward_ID Ward})

Consultant (Consultant_ID {pk}, Name)

Treatment(Treatment_Number {pk}, Date, Description, ConsultantConsultant_ID {fk Consultant_ID Consultant}, PatientPatient_Number {fk Patient_Number Patient})