Leon Seferi

Homework 3 Task 1

(For full screen viewing, please see "Source1.pdf" in the 'HW 3' folder in Databases on GitHub).
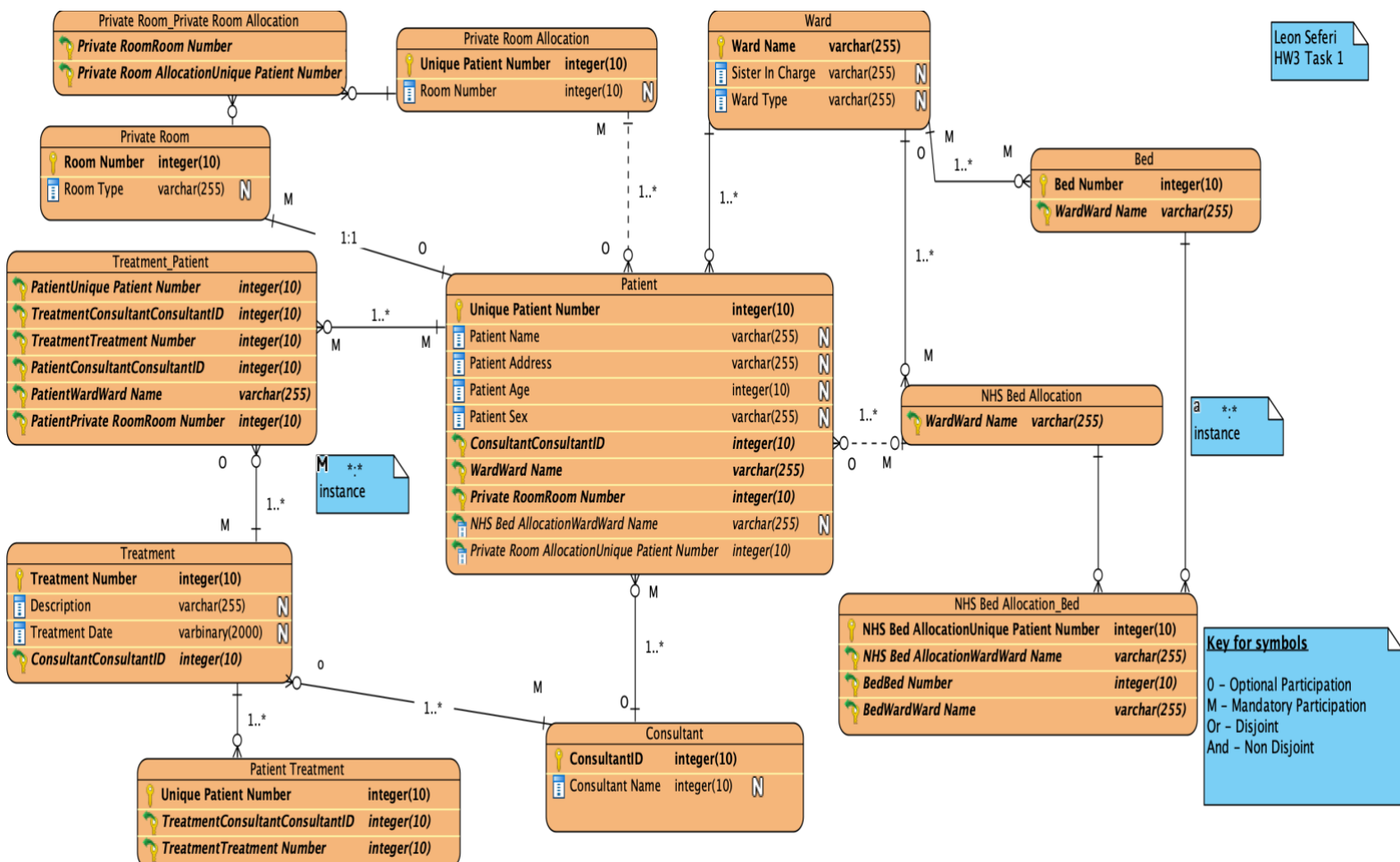
* Please refer to the blue notes for the keys that I have used to demonstrate constraints.

1::* - One to many

1:1 – One to one

: - Many to many

E-R Diagram:

Relational schema in 3NF:

Patient [patient_id (**PK**), patient_name, address, age, sex, consultant_id (**FK**) **]**

Ward [ward_name (**PK**), sister_in_charge, ward_type **]**

Bed [Bed_Number (**PK**), ward_name (**FK**) **]**

Private Room[private_room_number (**PK**), private_room_type **]**

Private Room Allocation[patient_id (**FK**), private_room_number (**FK**) **]**

NHS Bed Allocation [patient_id (**FK**), ward_name (**FK**), Bed_Number(**FK**) **]**

Treatment[Treatment_Number (**PK**), Desc, Treatment_Date, consultant_id (**FK**) **]**

Consultant[consultant_id (**PK**), consultant_name **]**

Patient Treatment [patient_id (**FK**), consultant_id (**FK**), Treatment_Number (**FK**) **]**