



Patients may have one or more services, but each service can only have one patient. Each service *can* but is not required to result in treatment. Treatments must be assigned to one service. Each service is created by exactly one doctor with admit privileges. One or more employees must assist with treatment. For simplicity, treatments must be ordered by a doctor, but each treatment administered can be performed by a doctor, nurse, technician, or a combination of the three in addition to the doctor who admitting doctor if applicable.

Assumptions:

- 1) A service may or may not result in treatment.
- 2) Patients can be in the system with or without admittance or an assigned service.

Constraints:

- 1) Dates/timestamps must be in the range of '1970-01-01' and '2038-01-19' to be supported by MySQL.
- 2) Options for the serviceType attribute include: [Inpatient, Outpatient].
- 3) Options for the employeeType attribute include: [Doctor, Nurse, Technician, Admin].
- 4) Options for the privilegeType attribute include: [Admit, Consult, NULL].
- 5) Each patient is assigned a unique patientID.
- 6) Each employee is assigned a unique employeeID.