

Hospital Proposal:

1. Each Patient, would have a name, ssn, sex, age, height and weight, address, credit card, dob, phone number, assigned room number, diagnosis, checkin date and checkout date.
2. The Hospital consists of doctors, patients, nurses, clerks, and hospital sanitation workers, hospital maintenance workers, management.
3. Management consists of a head hospital manager and 2 assistant managers.
4. Maintenance workers consists of IT technicians and Medical instrument technicians.
5. Hospital sanitation workers consists of Medical instrument cleaners and general custodians.
6. Clerks would be in charge of check in and check out information, and assigning room numbers to patients.
7. Every employee would have a name, sex, age, employee ID, date of hire, current time on a job, and a salary.
8. Nurses would be in charge of weight and height of patient.
9. Each doctor would be assigned at least one patient.
10. Cost includes Nights stayed, Treatment, Amenities
11. Amenities include a Cafeteria, Vending machine, ATM, Wi-Fi, Uber.
12. Treatments include, Materials, Medicine, PT, Surgery, Medical imaging
13. Medical imaging includes, X-rays, MRI scans, CAT scans, Ultrasound

Assumptions:

Assume that the hospital is open 24/7

Assume equal set of doctors working 8 hours each

Assume there are no emergencies

Assume ATM and Vending machines are automatically restocked

Assume ATM is only used for Uber and Vending machines

Relationships:

Rooms assigned to patients.

Up to 15 patients assigned to a doctor.

Nurses take measurements of patients.

Clerks assign rooms.

Patients billed for Amenities, Treatments, and Nights stayed.

8 Tables:

Patient

Employee

Room

Billed for

Assigned

Assign to

Assign

Take Measurements

Weak Relationships:

Weak relationship between the Patients and Billed for, because the bill cannot exist without the Patients.

Constraints:

No more than 15 patients assigned to a single doctor

One room assigned per patient