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Part 1

Our organization is a hospital for a medium sized town. The users would be doctors, nurses, patients, data management, and insurance. Doctors and nurses would use the database to view and update patient records. Patients would use the database to view their own records. Data management would be the overseers of the database, ensuring it works properly as well as verifying records. Insurance would use the database to view information about their registered patients.

Part 2

Entities:

Employees

Positions

Patients

Appointments

Insurance Agencies

Departments

Invoice

Prescriptions

Operations

Rooms

<https://www.w3resource.com/sql-exercises/hospital-database-exercise/index.php>

<https://www.geeksforgeeks.org/dbms/how-to-design-a-database-for-healthcare-management-system>

Business Rules:

1. An employee has one position.
2. A position can have multiple employees.

3. A patient can have one employee.
4. An employee can have many patients.
5. An appointment can have one employee.
6. An employee can have many appointments.
7. An appointment can have one patient.
8. A patient can have multiple appointments.
9. A patient can only be admitted to one room at a time
10. Each department must have at least one room, and each room belongs to exactly one department
11. An insurance agency can have multiple patients.
12. A patient can have one insurance agency.
13. A department can have many employees.
14. An employee only has one department.
15. An invoice has one employee.
16. An employee can have multiple invoices.
17. An invoice has one patient.
18. A patient can have many invoices.
19. An invoice can have one insurance agency.
20. An insurance agency can have many invoices.
21. An invoice can have one appointment.
22. An appointment can have one invoice.

Part 3

For better visibility: [Lucid Chart](#)

