Name : Moneeb Ahmed Mosa Al-Alawneh.

Exercise Solution:

Database Name : Hospital.

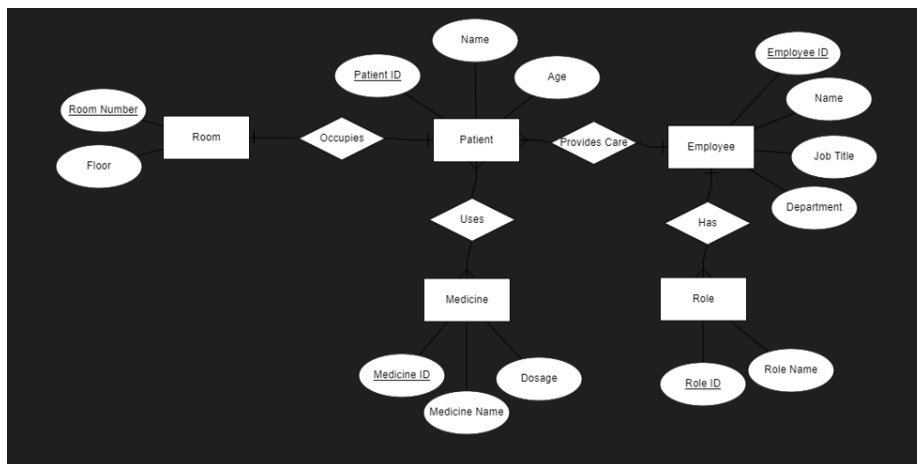Entities: Room, Medicine, Patient, Employee, Role.

Attributes:

1. Patient : Patient ID, Name, Age, Health Condition.
2. Employee : Employee ID, Name, Job Title, Department.
3. Medicine : Medicine ID, Medicine Name, Dosage.
4. Room : Room Number, Floor.
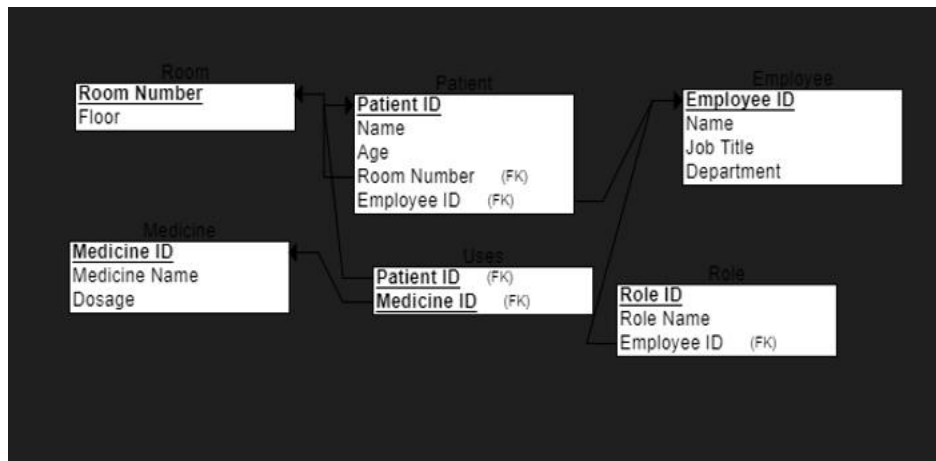5. Role : Role ID, Role Name.

Relationships :

1. One to One : Patient and Room.
2. One to Many : Role and Employee, Employee and Patient
3. Many to Many : Patient and Medicine.

ER Diagram :

Schema Diagram :

Class Diagram :

C##MONEEB.ASSIGNEDROOM

PF*	PATIENTID	NUMBER (*,0)
F	ROOMNUMBER	NUMBER (*,0)

ASSIGNEDROOM_PK (PATIENTID)

SYS_C008327 (PATIENTID)
SYS_C008328 (ROOMNUMBER)

C##MONEEB.ROOM

P *	ROOMNUMBER	NUMBER (*,0)
	FLOOR	NUMBER (*,0)

ROOM_PK (ROOMNUMBER)

C##MONEEB.PATIENT

P *	PATIENTID	NUMBER (*,0)
	NAME	VARCHAR2 (100 BYTE)
	AGE	NUMBER (*,0)
	HEALTHCONDITION	VARCHAR2 (255 BYTE)

PATIENT_PK (PATIENTID)

C##MONEEB.PATIENTMEDICINE

PF*	PATIENTID	NUMBER (*,0)
PF*	MEDICINEID	NUMBER (*,0)

PATIENTMEDICINE_PK (PATIENTID, MEDICINEID)

SYS_C008330 (PATIENTID)
SYS_C008331 (MEDICINEID)

C##MONEEB.MEDICINE

P *	MEDICINEID	NUMBER (*,0)
	MEDICINENAME	VARCHAR2 (100 BYTE)
	DOSAGE	VARCHAR2 (50 BYTE)

MEDICINE_PK (MEDICINEID)

C##MONEEB.ROLE

P *	ROLEID	NUMBER (*,0)
	ROLENAME	VARCHAR2 (50 BYTE)

ROLE_PK (ROLEID)

C##MONEEB.HOSPITAL

COLUMN1	VARCHAR2 (20 BYTE)

Relational_1