

Hospital Management System

In hospital management system, there would be many patients having different attributes like (name, phone etc). The patients will be checked up by the doctor. The doctor will prescribe the medicine to the patients and if required, then the doctor will admit patient in hospital and a room will be allotted to the patient. The room will be allotted for a specific time and specific visitors will be allowed. Staff will also be made available for the patient (e.g., doctor, nurse). Patient overall record will also be saved which will tell the clearance of patient that his dues are done or not, also either patient is still admitted or not and the tests of patient. A bill / invoice will be generated for the patient according to the services availed by the patient, if the patient was allotted in a room, then the room will be deallocated and the charges according to the room type will be charged from user, doctor check-up fee, medicine fee etc will be written in the invoice and the particular amount of tax will also be deducted. There will also be a receptionist who will manage all the records of different patient.

Entities & Attributes:

- Patient
 - pid (PK)
 - name
 - gender
 - address

- houseNumber
- city
- street

- phone
- email
- roomId (FK)

- Room

- rid (PK)
- type
- status
- allottedTime
- location
- allowedVisitors
- allottedStaff
- pid (FK)

- Employee

- eid (PK)
- name
- gender

- experience
- salary
- hours
- shiftTime
 - specialization (Doctor)
 - services (Nurses)
 - qualification (Receptionist)
- Medicine
 - mid (PK)
 - name
 - type
 - cost
 - quantity
 - description
- Invoice
 - number (PK)
 - date
 - totalAmount
 - status

- discount
- description
- tax
- pid (FK)
- eid (FK)

- Medical Records

- id (PK)
- disease
- prescription
- date
- pid (FK)
- eid (FK)

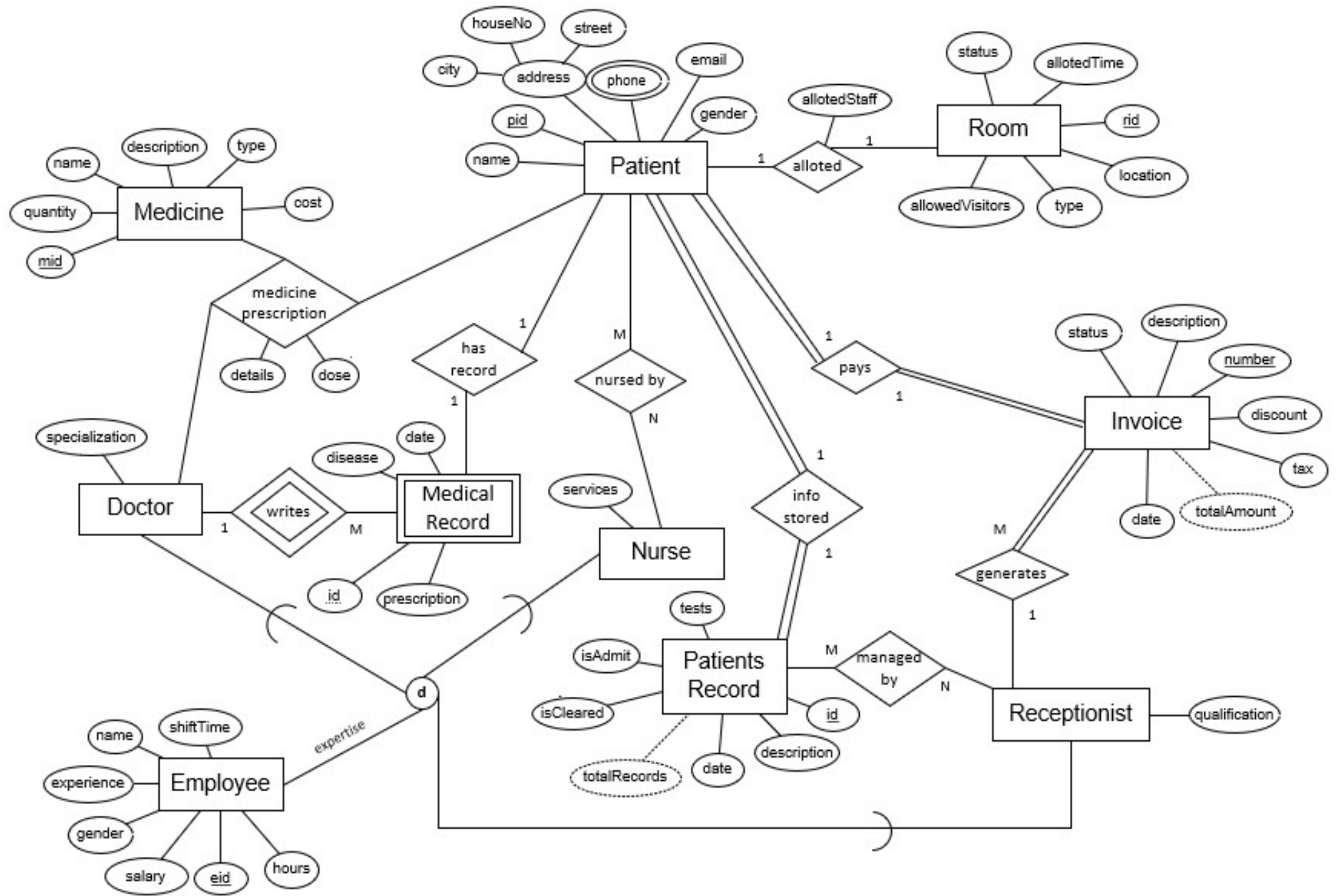
- Patient Records

- description
- date
- pid (FK)
- id (PK) (FK)

Relations:

- Doctor and Medical Record: 1:M
- Doctor and Patient and Medicine: Ternary
- Patient and Medical Record: 1:1
- Patient and Nurse: M:N
- Room and Patient: 1:1
- Invoice and Patient: 1:1
- Patient and Record of patients: 1:1
- Receptionist and Invoice: M:1
- Record of patients and Receptionist: M:N

ERD



MAPPING

Patient

<u>pid</u>	name	email	gender	city	houseNo	street
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Patient_Phone

<u>phone</u>	<u>pid (FK)</u>
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Room

<u>rid</u>	status	allotedTime	location	allowedVisitors	type	pid (FK)	allotedStaff
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Medicine

<u>mid</u>	quantity	name	cost	type	description
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Employee

<u>eid</u>	name	experience	gender	salary	hours	shiftTime
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Doctor

<u>eid (FK)</u>	specialization
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Nurse

<u>eid (FK)</u>	services
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Receptionist

<u>eid (FK)</u>	qualification
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Medical_Record

<u>id</u>	<u>eid (FK)</u>	<u>pid (FK)</u>	prescription	disease	date
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Patients_Record

<u>id</u>	description	date	isCleared	isAdmit	tests	pid (FK)
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Invoice

<u>number</u>	tax	description	date	discount	status	pid (FK)	eid (FK)
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Medicine_Prescription

<u>mid (FK)</u>	<u>eid (FK)</u>	<u>pid (FK)</u>	details	dose
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Nursed_By

<u>eid (FK)</u>	<u>pid (FK)</u>
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Records_Managed_By

<u>eid (FK)</u>	<u>id (FK)</u>
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