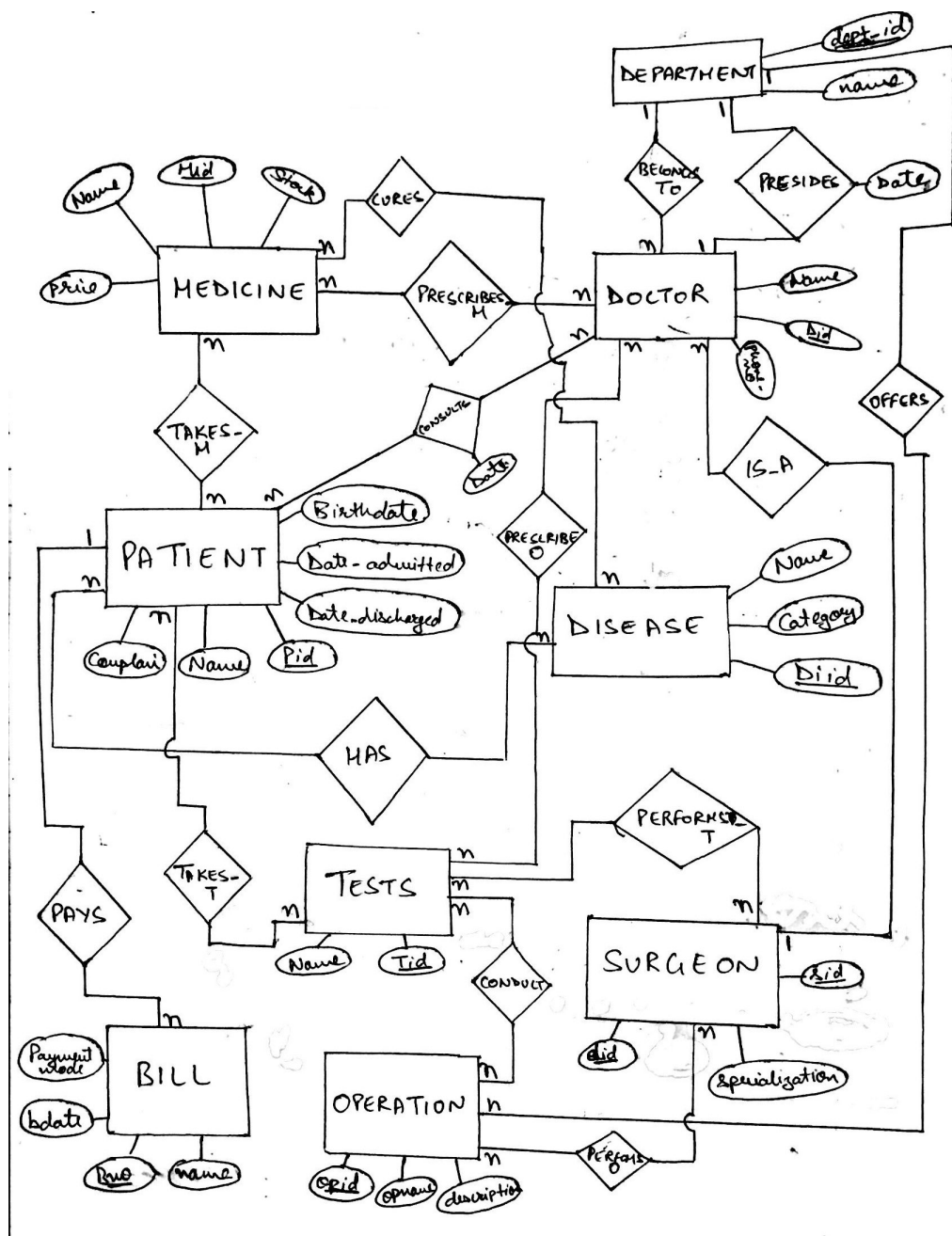


Medical Records System

ER Diagram and Relational Schema

ER DIAGRAM



RELATIONAL SCHEMA

RELATIONAL SCHEMA	
Medicine	(Name, <u>Mid</u> , price, stock)
Cures	(<u>Mid</u> , <u>Diid</u>)
Disease	(Name, category, <u>Diid</u>)
PrescribesM	(<u>Diid</u> , <u>Mid</u>)
Doctor	(<u>Pid</u> , Name, phone-no)
Patient	(<u>Pid</u> , Name, complain, Date-admitted, Date-discharged, Birthdate)
Consults	(<u>Diid</u> , <u>Pid</u> , date)
Tests	(<u>Tid</u> , Name)
Takes-M	(<u>Mid</u> , <u>Pid</u>)
Takes-T	(<u>Pid</u> , <u>Tid</u>)
Surgeon	(<u>sid</u> , <u>pid</u> , specialization)
Operation	(<u>opid</u> , opname, description)
Conduct	(<u>opid</u> , <u>Tid</u>)
Performs-T	(<u>sid</u> , <u>Tid</u>)
Bill	(<u>Bno</u> , name, bdate, Payment-made)
Pays	(<u>Pid</u> , <u>Bno</u>)
Belongs-To	(<u>Diid</u> , dept-id)
Presides	(<u>Diid</u> , dept-id, date)
Offers	(dept-id, <u>opid</u>)
Is-A	(<u>Diid</u> , <u>sid</u>)
Prescribes-O	(<u>Diid</u> , <u>Tid</u>)
Has	(<u>Pid</u> , <u>Diid</u>)
Department	(dept-id, name)

Patient has a Disease.

Patient consults Doctor.

Doctor prescribes Medicine.

Medicine cures Disease.

Doctor prescribes Tests.

Doctor belongs to a Department.

Department offers Operations.

Patient takes Tests.

Surgeon performs Operation.

A Doctor is a Surgeon.

A Doctor presides over a Department.

Patient pays Bill.

Medicine : It has a name, it's unique ID called Mid, it's price and it's stock.

Doctor : A doctor has a name, his/her unique ID called did, and a phone number.

Department : A department has a name and a unique ID called dept_id.

Patient : A patient has a name, a unique ID called pid, his/her birthdate, date of admission, date of discharge and a complain (the reason why he/she is in the hospital).

Disease : A disease has a name, category and a unique ID called diid.

Tests : A test has a name and a unique ID called Tid.

Surgeon : A surgeon has a doctor ID(did), a unique surgeon ID called sid and his specialisation.

Operation : An operation has a name, a unique ID called opid and a description.

Bill : A bill has a name, a unique number called Bno, the date on which the bill was created(Bdate) and the payment mode the patient used to pay the bill.

Apart from these entities, we have some relations that have attributes as well. Eg:

Presides : Date (Tells the date from which a doctor presides over a department).

Consults : Date (Tells the date when a patient consulted a doctor).