

# DBMS ASSIGNMENT 1

## HOSPITAL MANAGEMENT SYSTEM

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According to surveys, Hospitals produce 50 petabytes of data per year. Using this data efficiently, can transform the quality of medical care.

Hospitals interact with a lot of people and there are various activities involved in day-to-day operations of hospitals. For example, booking of appointments, managing doctor schedules, managing patient diagnoses, managing medical histories of patients, etc. There are a lot of variables involved and can also have multiple relations between them.

The aim of this project is to show how data related to these tasks can be made easier and less error prone when databases are used.

We have five entities and six relationships set.

Entity set includes:

Medical history,  
Doctors,  
Schedules,  
Appointments, Patients.

Relationship set includes:

1. attend (between patients and appointments)
2. give (between medical history and patients)
3. see/update (between medical history and doctors)
4. follow (between schedules and doctors)
5. correspond (between appointment and schedules)
6. diagnose (between appointments and doctors )

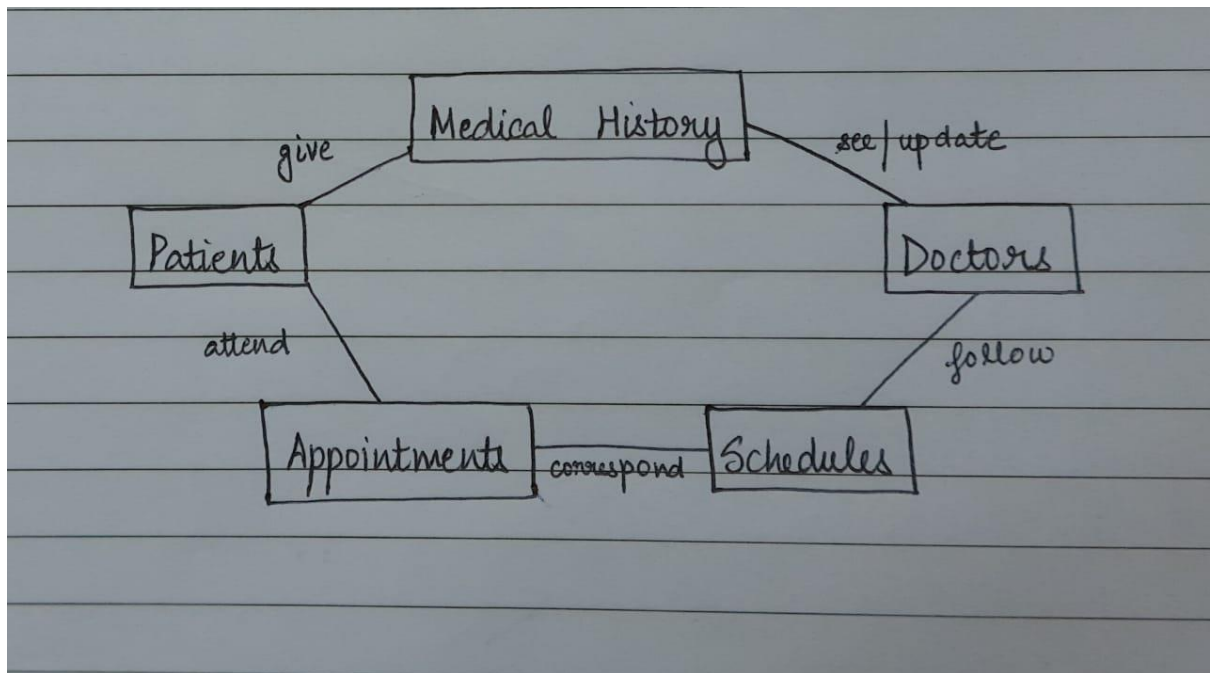
Entity set attributes:

1. Patients-gender, email, name, address, password, id
2. Appointments-end\_time, date, start\_time, id, status
3. Schedules-day, breaks, id, end\_time, start\_time
4. Doctors-password, email, gender, name, id
5. Medical history-surgeries, medication, conditions, date/time, id

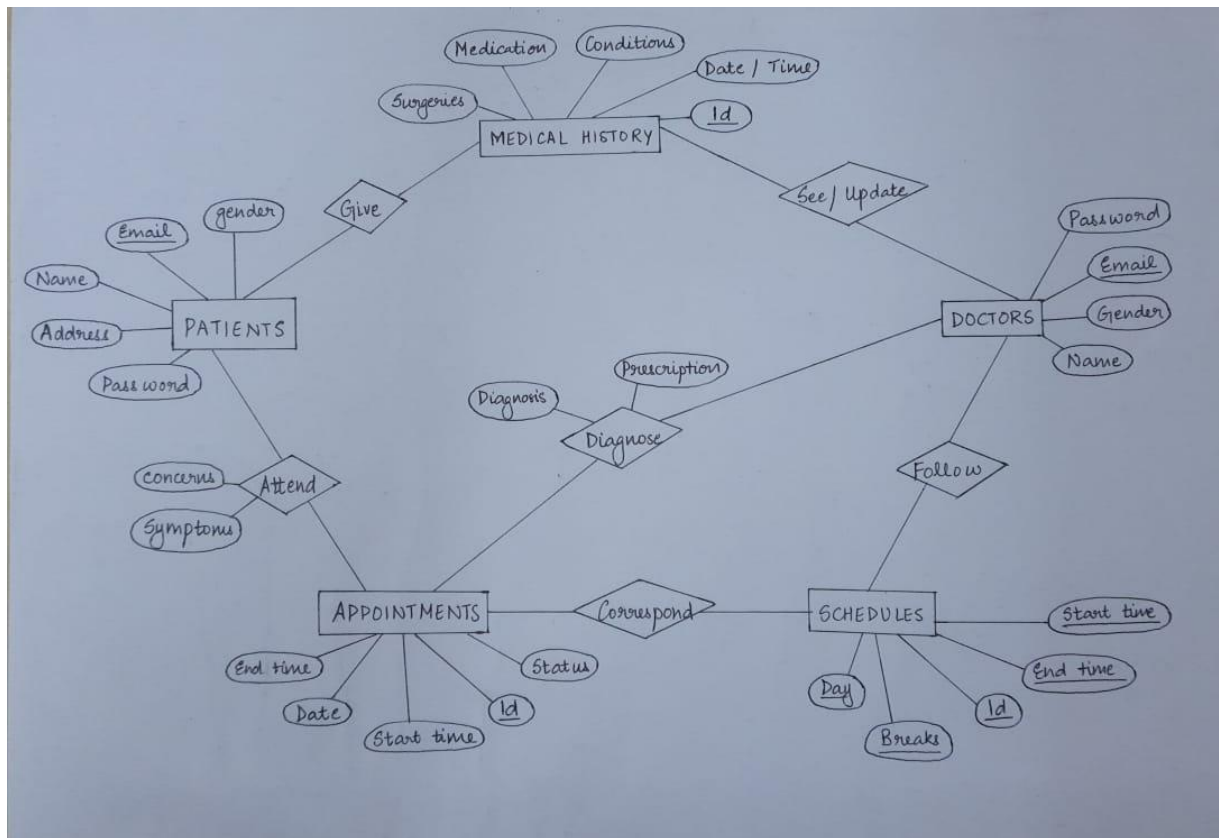
Relationship set attributes

1. attend-concerns, symptoms
2. diagnose-diagnosis, prescription

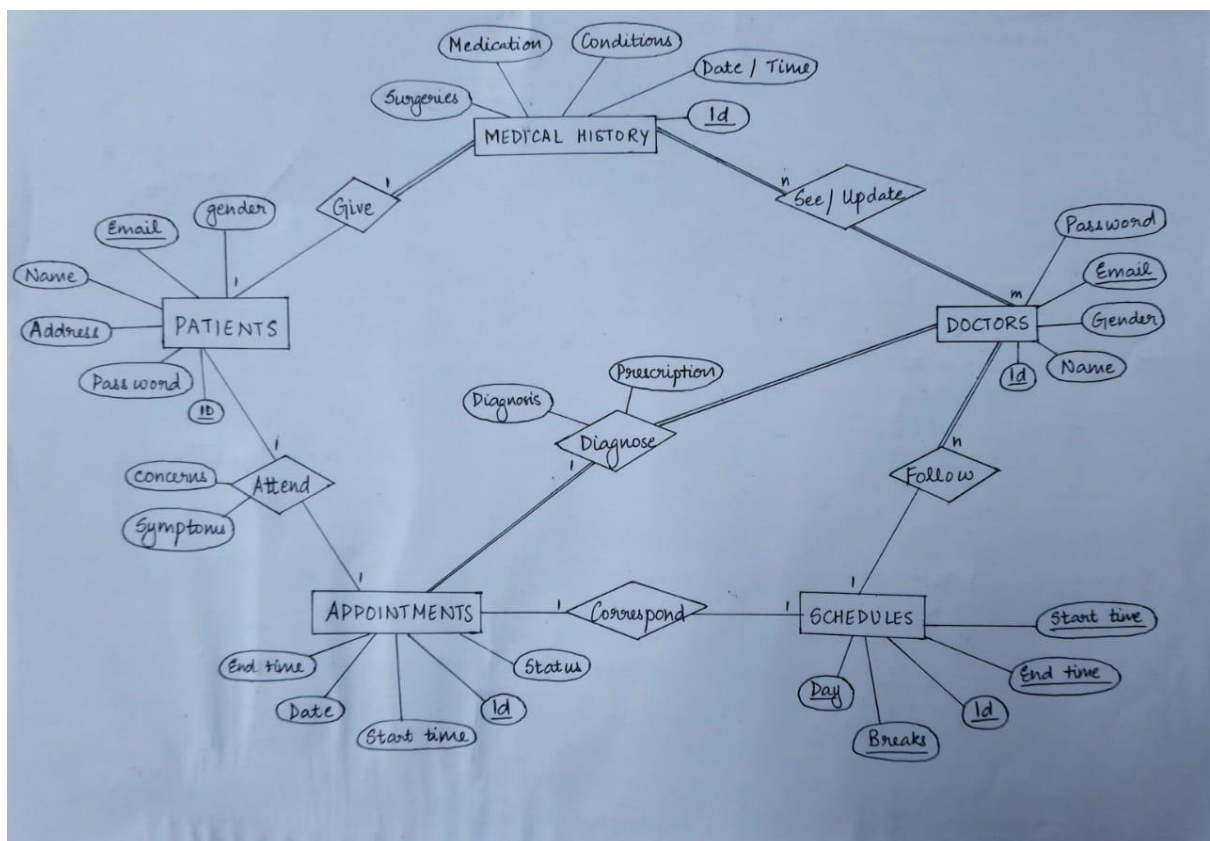
## INCREMENTAL STAGE 1



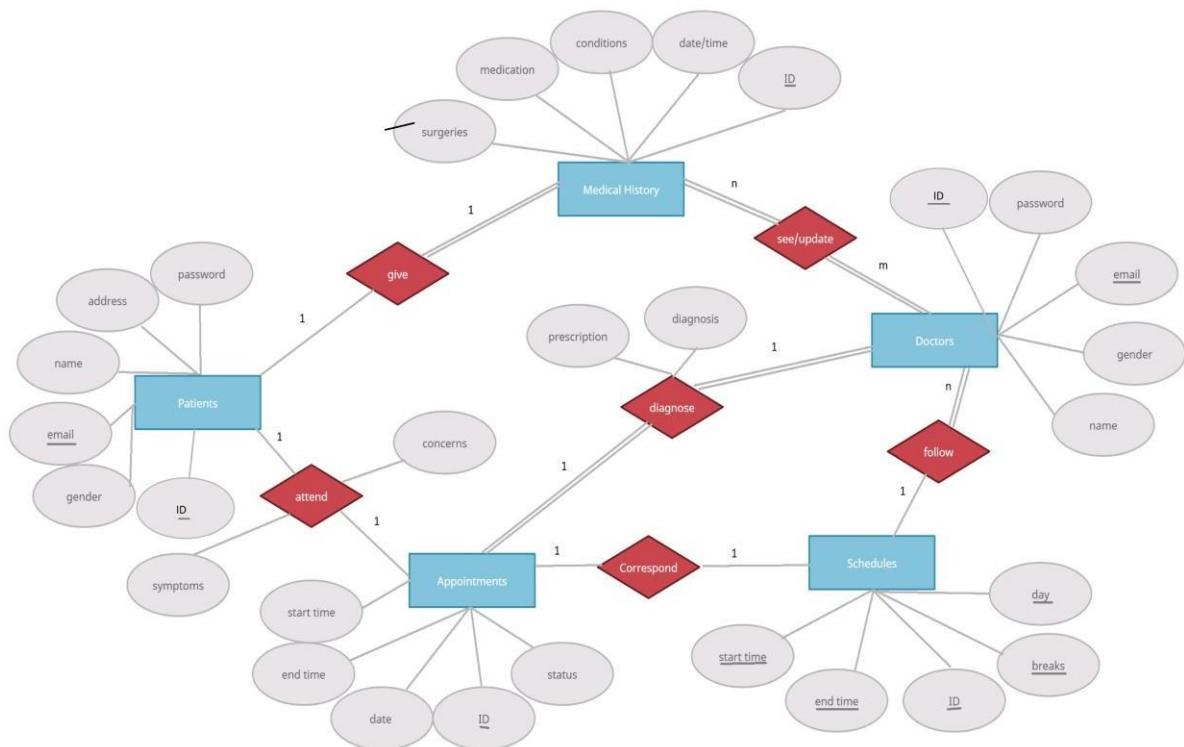
## INCREMENTAL STAGE 2



## FINAL ER DIAGRAM



## ER DIAGRAM USING TOOL



## ABOUT TOOL

creately.com

“YourVisualworkspace” – “Plan, brainstorm, analyse or design anything together.”

This is used to draw ER- diagram. It has 1000s of templates to start with and supports all kind of shapes required for ER – diagram.

Link to the tool:

[https://creately.com/?gclid=Cj0KCQjw18WKBhCUARIsAFiW7Jyf2QZOXM9E8wExAgCkzmm0NRuCeRPk1SCPVysfPTLFn5ERp20ZSfsaAgH7EALw\\_wcB](https://creately.com/?gclid=Cj0KCQjw18WKBhCUARIsAFiW7Jyf2QZOXM9E8wExAgCkzmm0NRuCeRPk1SCPVysfPTLFn5ERp20ZSfsaAgH7EALw_wcB)