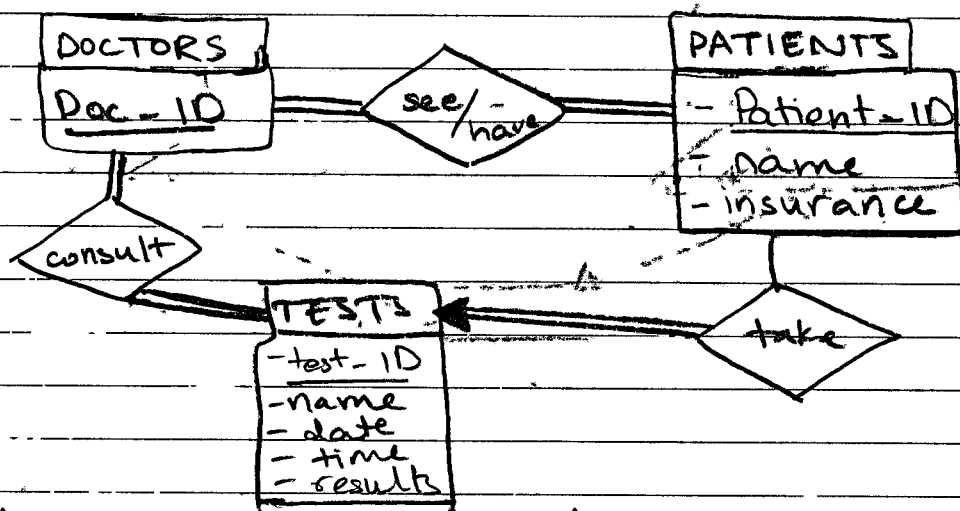


1)



* Assuming Patient and Doctor relationship is total participation for both.

* Assuming a many-to-many relationship between Doctors and tests, also both are total participation.

* Assuming a test needs at least one patient, but a patient may have 0 to many tests.

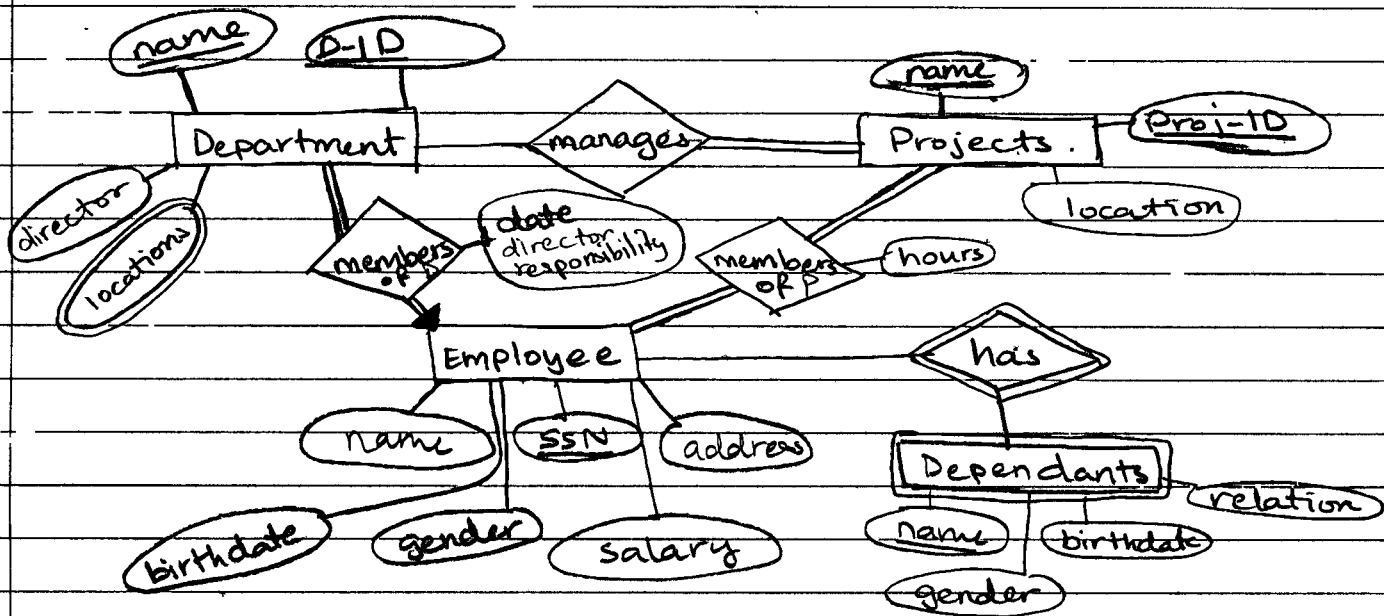
2) Relation schema

→ Doctors (Doc-ID)

→ Patients. (Patient-ID, name, insurance, Doc-ID)

→ Tests (test-ID, name, date, time, results, Patient-ID)

3)



* Assumed SSN is unique for employee.

* Assumed total participation for department and Employee and also Employee and Projects.

* Assumed an employee can also be a director.