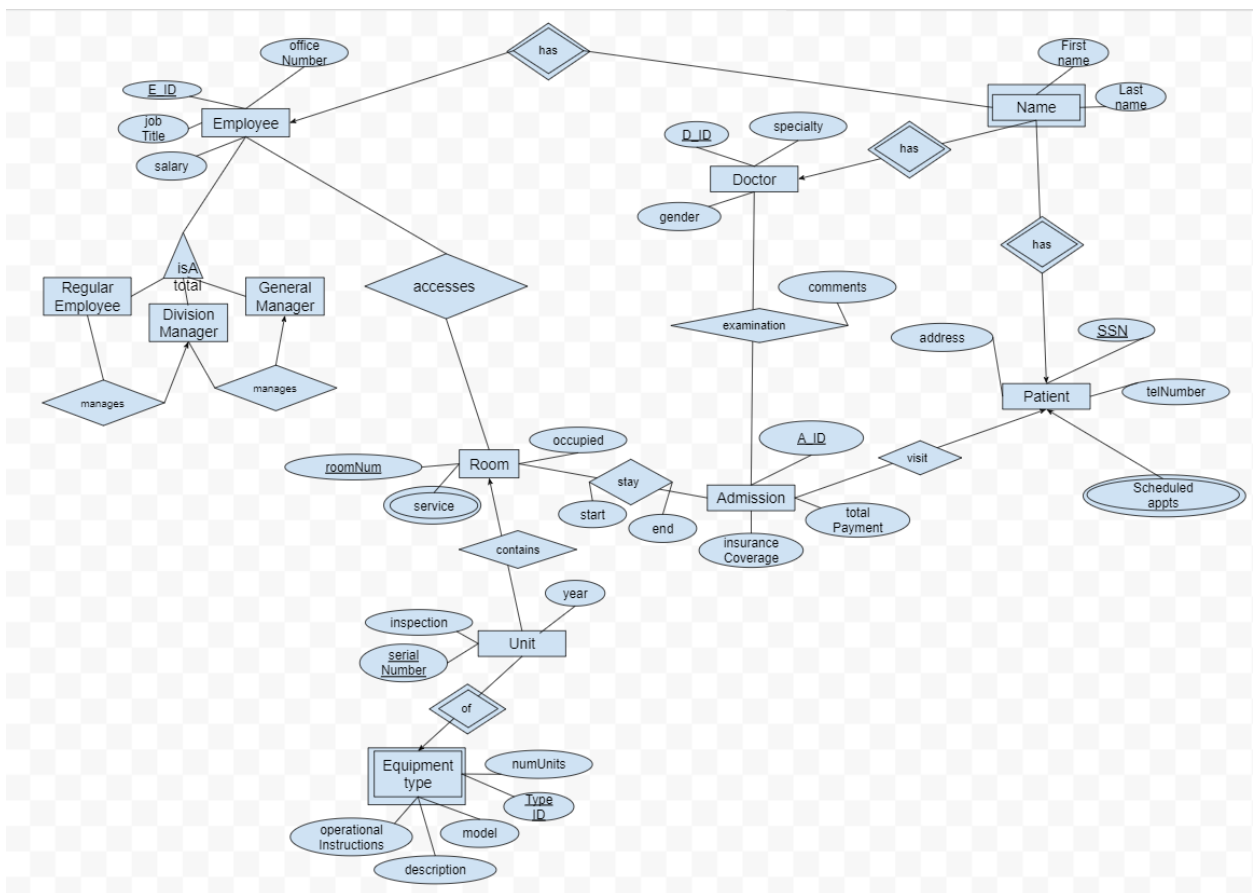


1/29/2019

Phase 1

Lovering & Konyeaso

1. ERD



All of the arrows used are open arrows (must be one), except between Unit and Room, which is a closed arrow (one or zero) as there can be a room without any units

2. Assumptions made:

- There is a name entity storing the first and last names of all people in the database
- Each admission has a unique ID
- There can repeating serial numbers as long as they are different equipment types

3. Relational Model

Name(first, last, E_ID, D_ID, SSN)

RegularEmployee(E_ID, manager_ID, officeNumber, jobTitle, salary)

Foreign Key: RegularEmployee.manager_ID references DivisionManager.E_ID

DivisionManager(E_ID, manager_ID, officeNumber, jobTitle, salary)

Foreign Key: DivisionManager.manager_ID references GeneralManager.E_ID

GeneralManager(E_ID, officeNumber, jobTitle, salary)

Doctor(D_ID, specialty, gender)

Examination(D_ID, A_ID, comments)

Room(roomNum, occupied)

RoomService(roomNum, service)

Accesses(roomNum, E_ID)

Unit(serialNumber, roomNum, Type_ID, year, inspection)

Equipment Type(Type_ID, serialNumber, numUnits, model, description, operationInstructions)

Admission(Admission_ID, SSN, endDate, endTime, startDate, startTime, totalPayment, insuranceCoverage)

Stay(roomNum, A_ID, start, end)

Patient(SSN, address, telNumber)

ScheduledAppts(SSN, date)