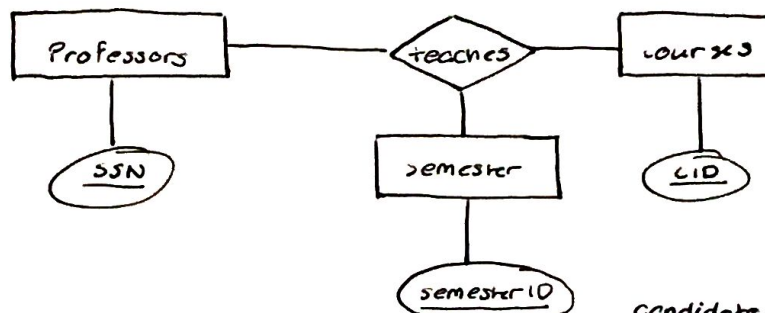


9/27/19

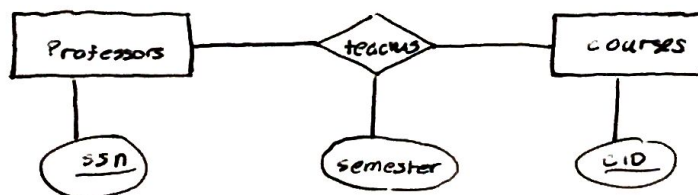
CS-442

Exercise 1: a) Professors can teach the same course in several semesters, and each offering must be recorded.



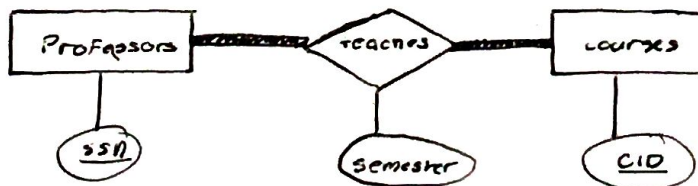
candidate key: SSN, CID, <sup>semester</sup> ID

b) Profs. can teach the same course in several semesters, but only most recent offering is recorded.



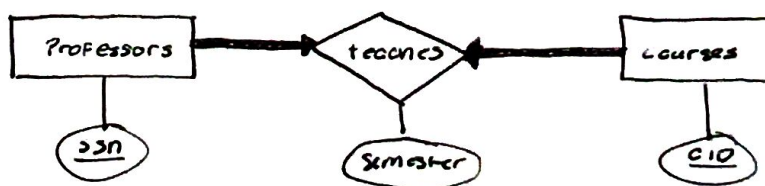
candidate key: SSN, CID

c) Each prof. teaches at least one course, and each course is taught by at least one prof.

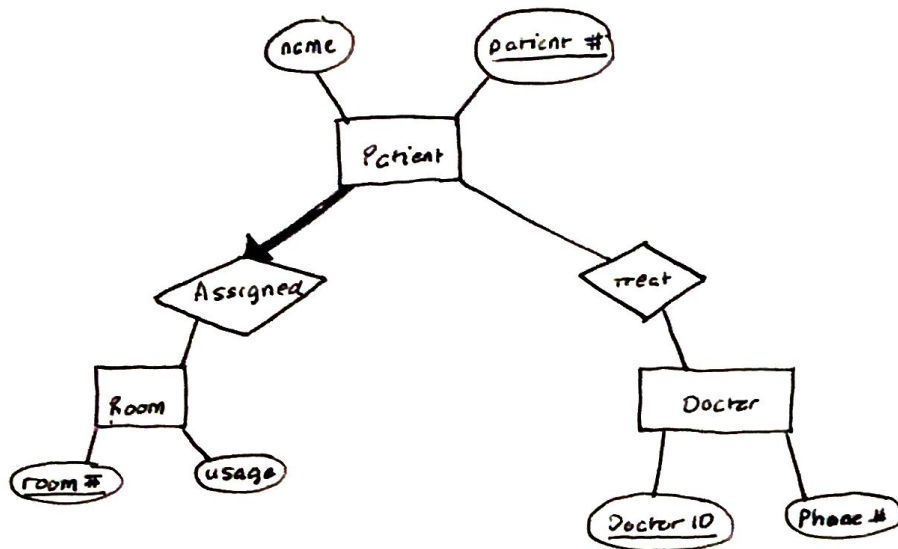


candidate key: SSN, CID

d) Each prof. teaches exactly one course, and each course is taught by exactly one professor.



candidate key: SSN, CID



b)

```

CREATE TABLE Assigned ( room# INTEGER,
                        patient# INTEGER,
                        PRIMARY KEY ( patient# ),
                        FOREIGNKEY ( patient# ) REFERENCES Patient,
                        FOREIGN KEY ( room# ) REFERENCES Room);

CREATE TABLE treat ( DoctorID INTEGER,
                     patient# INTEGER,
                     PRIMARY KEY ( DoctorID, Patient# ),
                     FOREIGN KEY Patient# REFERENCES Patient,
                     FOREIGN KEY DoctorID REFERENCES Doctor);
    
```