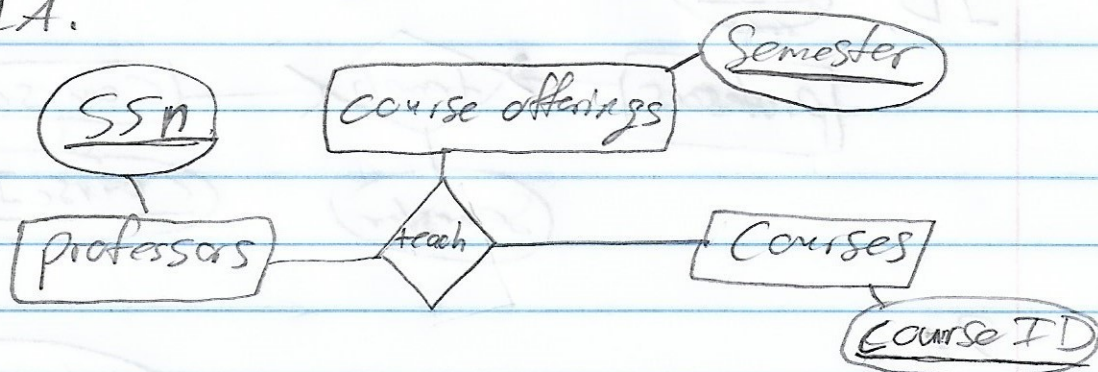


Brandon Patton

I pledge my honor that I have
abided by the Stevens Honor System.
Brandon Patton

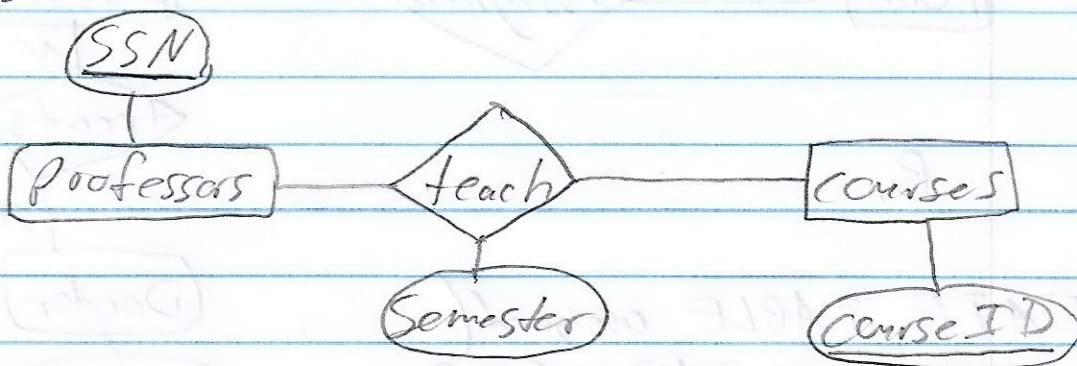
ER Diagram and Relational Model

1A.



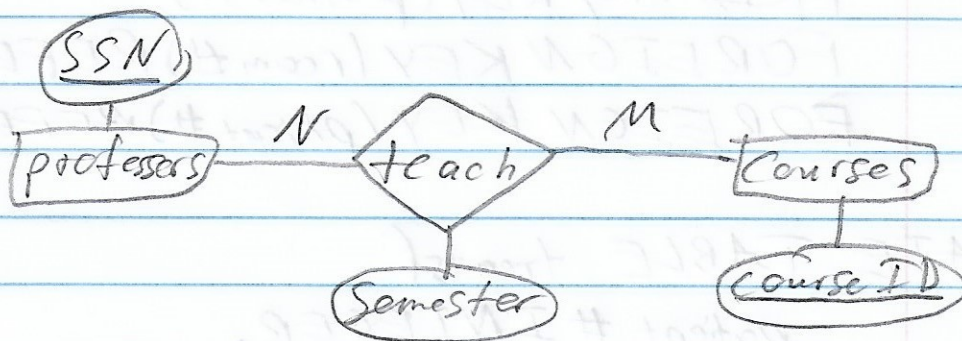
candidate key: (SSN + Semester + Course ID)

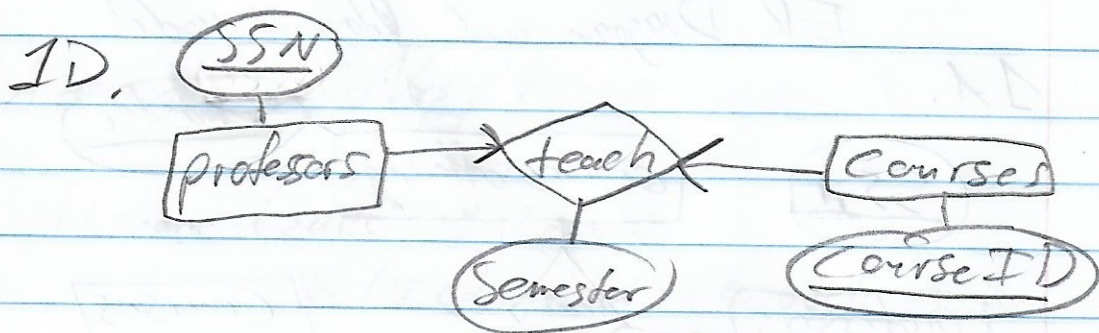
B.



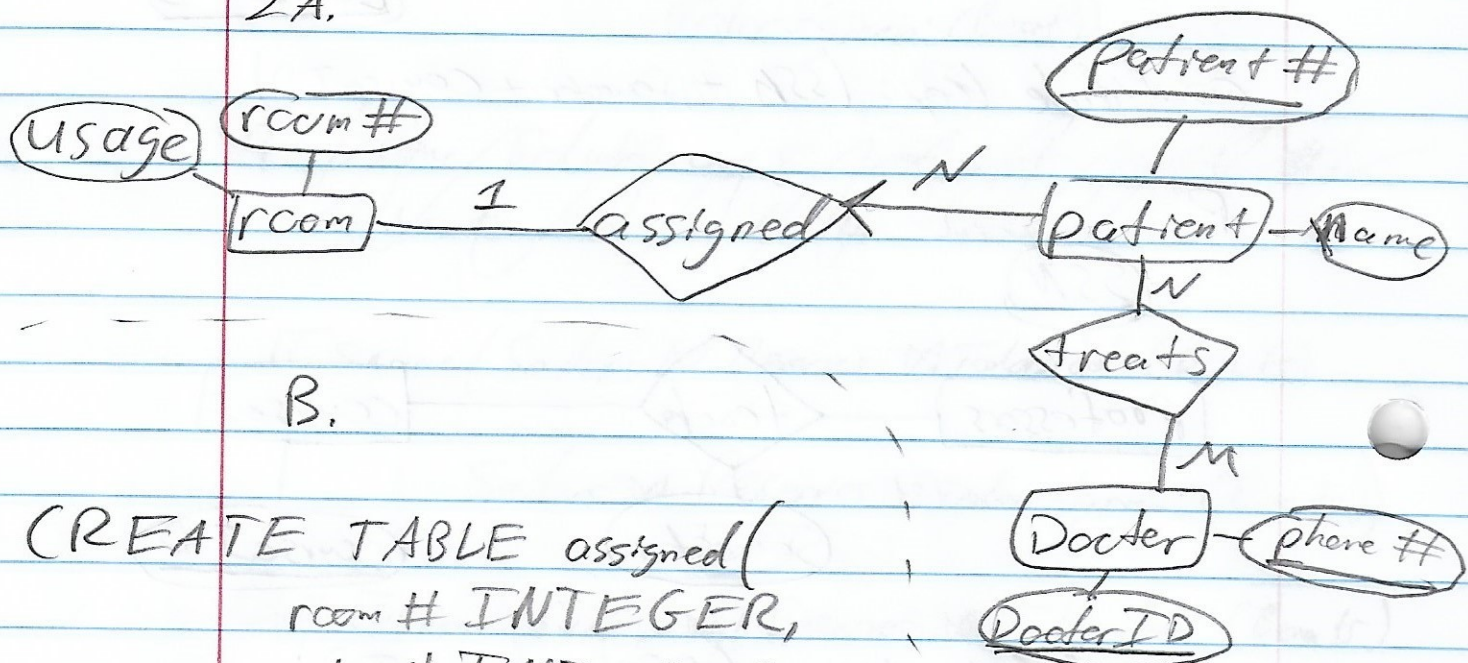
candidate key: (SSN + Course ID)

C.





2A.



B.

```

CREATE TABLE assigned(
    room # INTEGER,
    patient# INTEGER,
    PRIMARY KEY (patient#),
    FOREIGN KEY (room #) REFERENCES room,
    FOREIGN KEY (patient#) REFERENCES Patient)
  
```

```

CREATE TABLE treats(
    patient # INTEGER,
    doctorID INTEGER,
    phone# CHAR(10),
    PRIMARY KEY (patient#, doctorID, phone#),
    FOREIGN KEY (patient#) REFERENCES Patient,
    FOREIGN KEY (doctorID, phone#) REFERENCES doctor)
  
```