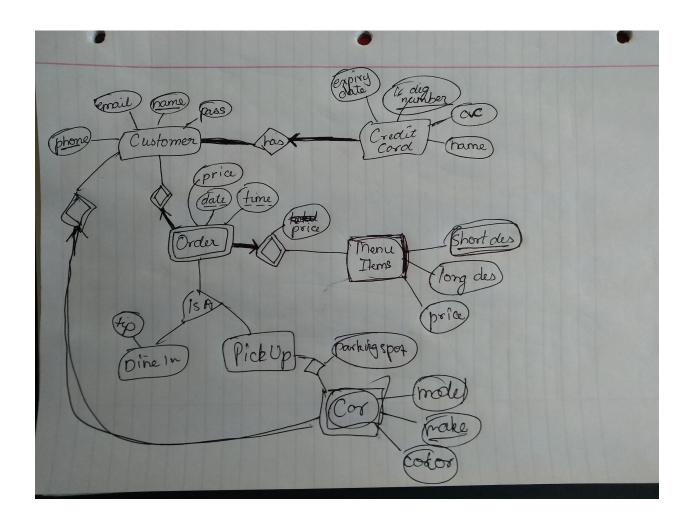
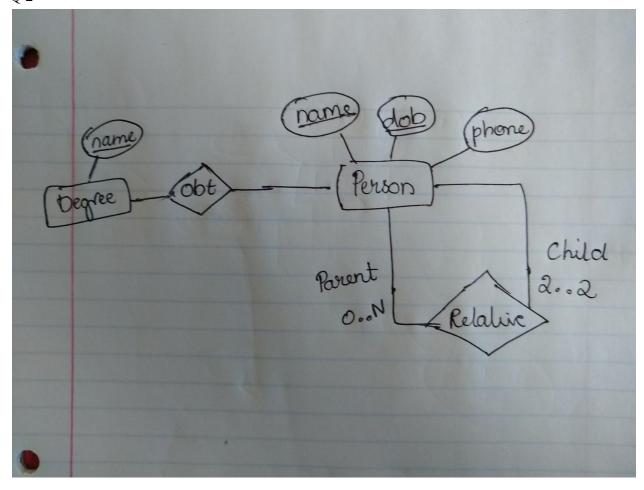
CS 336 - Fall 2021 Principles of Information and Data Management *Midterm 1

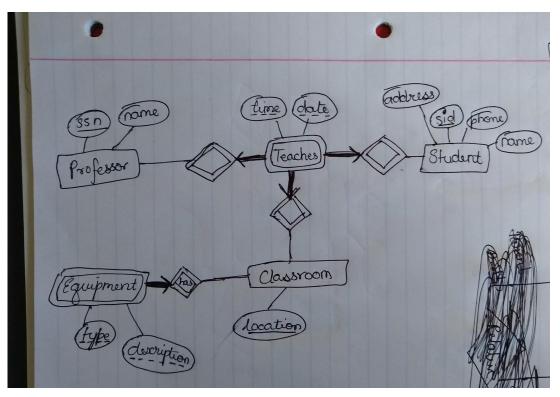
Name - Kev Sharma Netid - kks107



Q 2



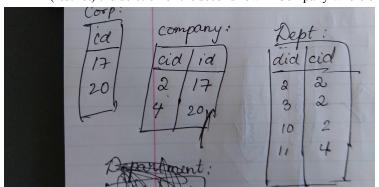
```
Physician (SSN: int, name: varchar(200), address: varchar(250), phone: int,
       primary key (SSN))
Out Patient (ID: int, admit date: date,
       checkback date: date,
       SSN: int
       primary key (ID)
       foreign key (SSN) references Physician NOT NULL
  )
Resident Patient (ID: int, admit date: date,
       discharge date: date,
       SSN: int
       primary key (ID)
       foreign key (SSN) references Physician NOT NULL
       foreign key (room id, bed#) references Bed NOT NULL
  )
Bed (bed#: int, room id: int,
  is ICU Bed: char(1),
  primary key (room id, bed#),
  foreign key (room id) references Room NOT NULL)
Room (room id: int,
  primary key (room id))
Note: is_ICU_Bed: char(1) is a 1 for true, 0 for false to represent the two entities.
```



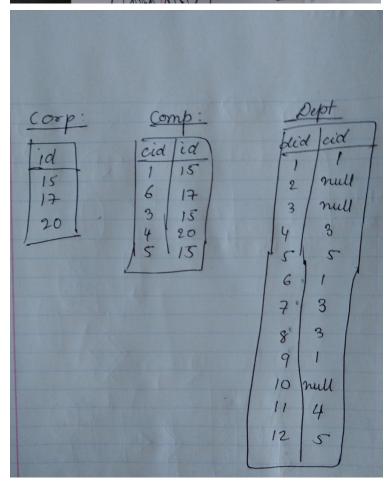
Q4.

Q5.

- a. Assuming cid is the primary key of Company. Delete from Company where cid=2 will fail because:
 - i. Did 2,3, and 10 have foreign key cid value of 2.
 - ii. Foreign key cid references Company on delete restrict clause in Department schema will prevent (restrict) the deletion of the second row in Company where cid=2.



b.



c.