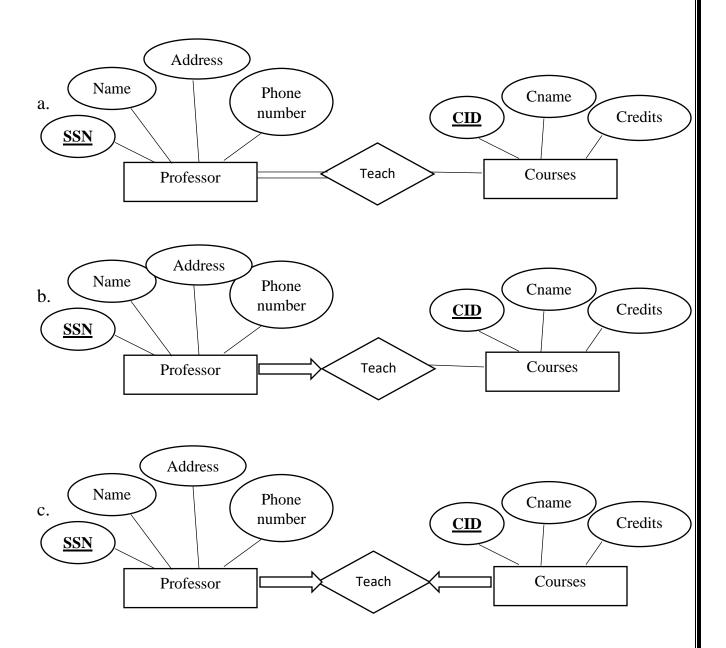
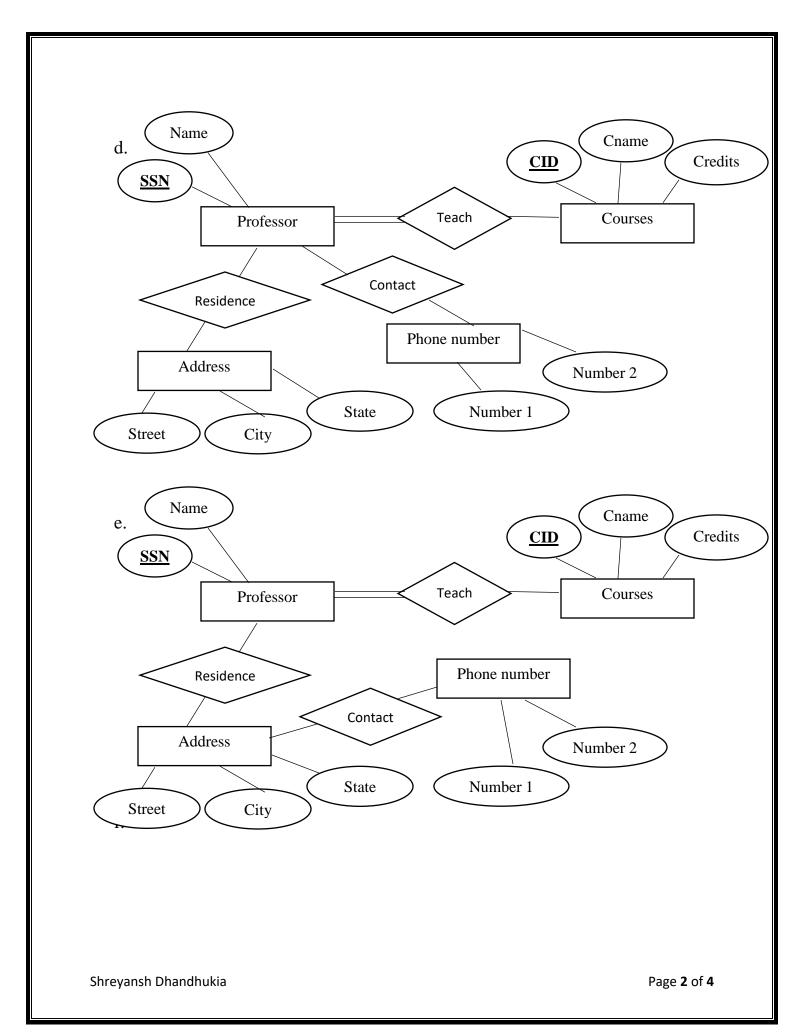
CS630 HW3

Q1





$\mathbf{Q2}$

- a. Here there will be two cases:
 - a = 10 and b can be NULL or can be any integer.
 - b = 20 and a can be NULL or can be any integer.
- b. Here there can only be one tuple. The set must contain exactly the tuple (10, 20).
- c. Here the set can be any tuple (a, b) where a can be any integer but not NULL and b can be any integer or it can also be NULL.
- d. Here the tuple (a, b) such that a and b both of them cannot be NULL but can be integers.

a. CREATE VIEW ManagerSummary (DeptName, MgrId, MgrName, MgrSalary, EmpCount) AS
 SELECT dname, managerid, E.ename, E.salary, COUNT(e.eid)
 FROM Employee E, Works W, Department D
 WHERE D.managerid = E.eid and D.did = W.did and W.eid = E.eid
 GROUP BY D.did, D.dname, D.managerid, E.ename, E.salary;

- b. SELECT DISTINCT M.MgrSalaryFROM ManagerSummary MWHERE M.DeptName = 'Sales';
- c. SELECT M.MgrName
 FROM ManagerSummary M
 WHERE M.EmpCount = (SELECT MAX(M1.EmpCount) FROM ManagerSummary M1);