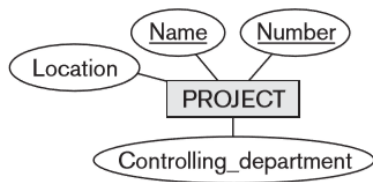


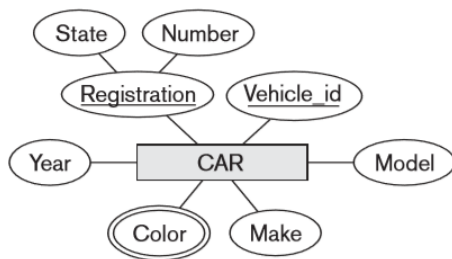
Question 1 - Map the below ER fragments, if required, list any foreign keys.

(Elmasri & Navathe: Chapter 3: 3.8)

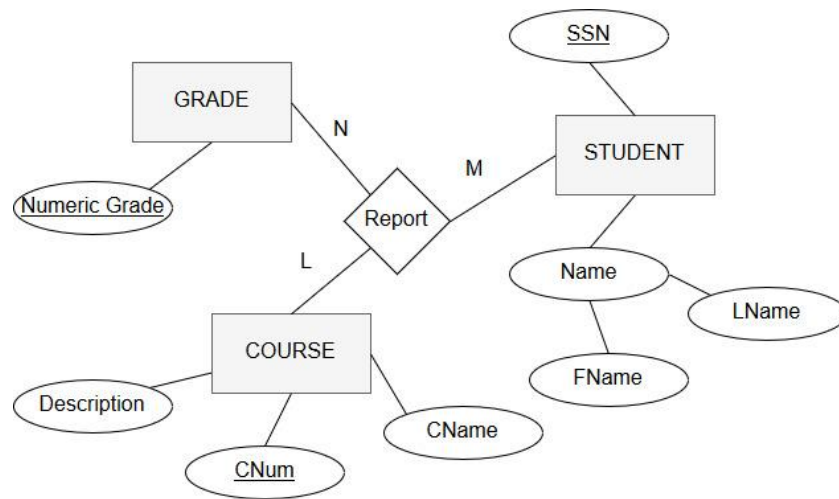
a)



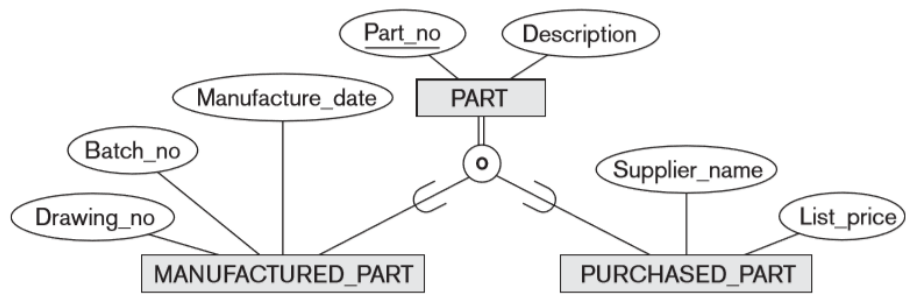
b)



c)

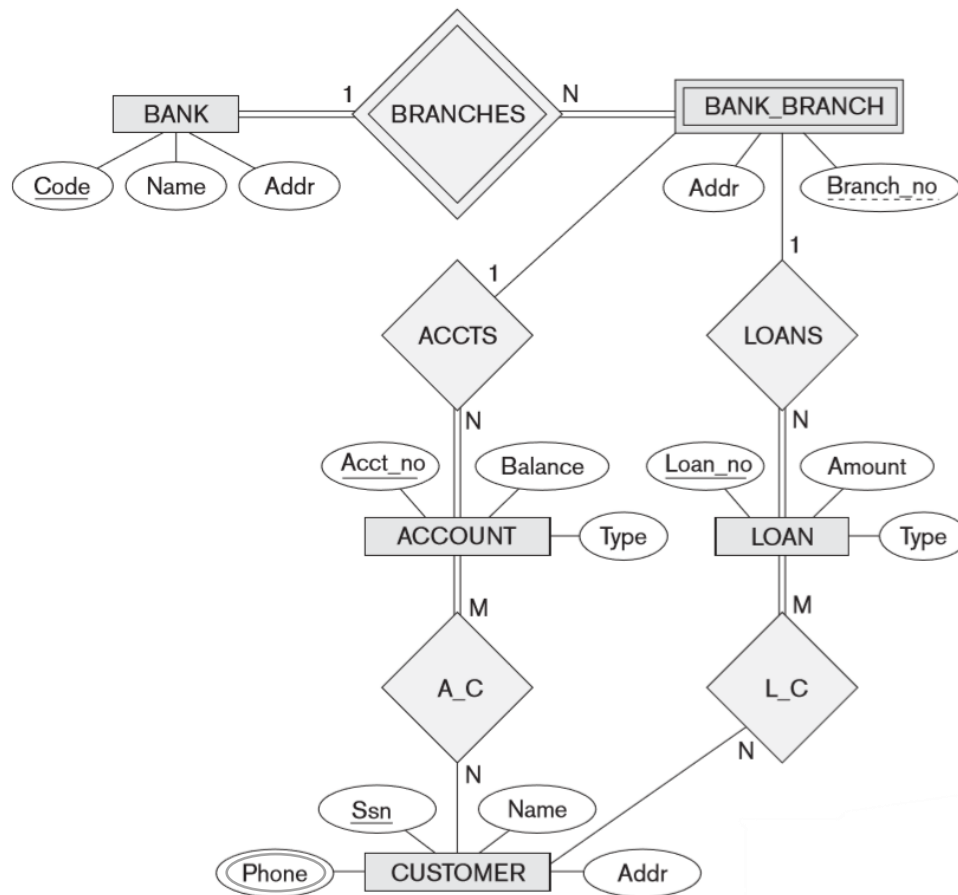


d)

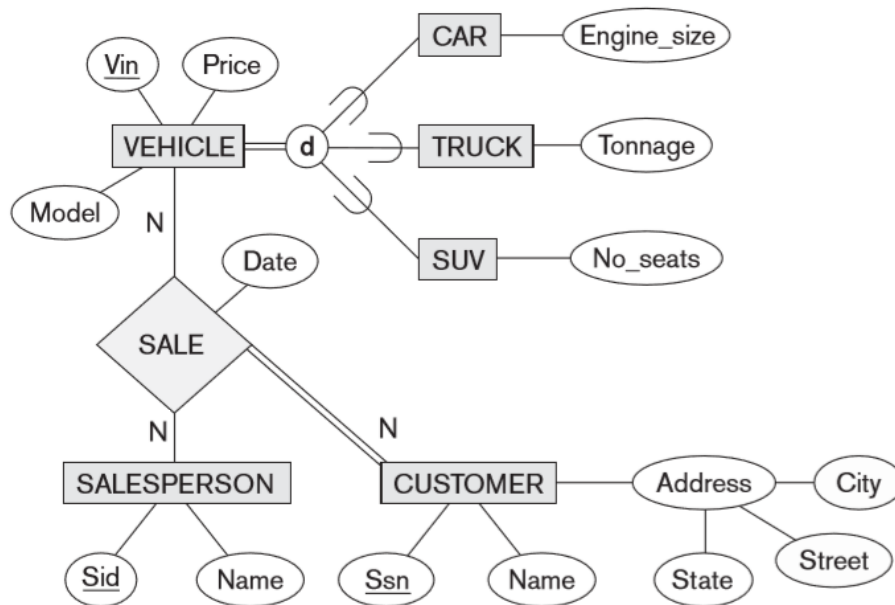


Question 2 - Map the following ER diagrams. Show all mapping steps and include foreign keys.

(Elmasri & Navathe: Chapter 7: 7.21)



Question 3 - Map the following ER diagrams. Show all mapping steps and include foreign keys.





Question 4 – Reverse Engineer the following Schema (Construct an ER Diagram from the Schema)

REEF (reef-name, 2006-bleached-area, summer-maximal-temp, latitude, longitude)

CORALSAMPLING (sample-no, reef-name, coral-code, date-of-sampling, bleach-percent)

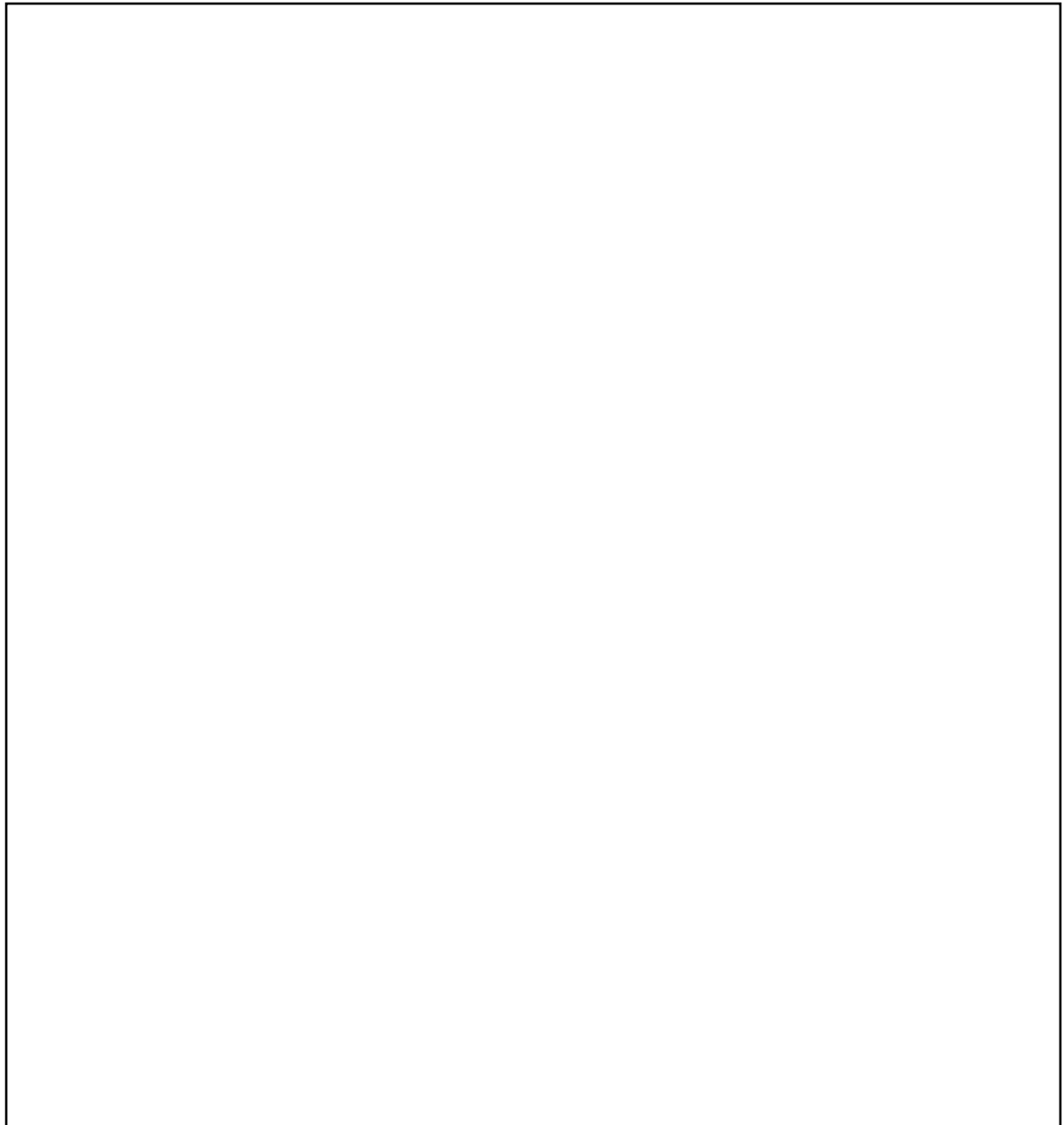
CORAL (coral-code, coral-name, thermal-threshold)

REEF-TEMP (reef-name, date-of-reading, temp-reading)

CORALSAMPLING.coral-code references CORAL.coral-code

CORALSAMPLING.reef-name references REEF.reef-name

REEF-TEMP.reef-name references REEF.reef-temp



Question 5 – Reverse Engineer the following Schema (Construct an ER Diagram from the Schema)

PATIENT (Pid)

CLINIC (Rno)

DOCTOR (Lic-no)

GP (Lic-no, Hours)

SPECIALIST (Lic-no, Specialisation)

WORKS_IN (Doctor-Lic, Clinic-No)

APPOINTMENT (Doctor-Lic, Patient-Id, Date/Time, Fee)

GP.Lic-no references DOCTOR.Lic-no

SPECIALIST.Lic-no references DOCTOR.Lic-no

WORKS_IN.Doctor-Lic references DOCTOR.Lic-no

WORKS_IN.Clinic-No references CLINIC.Rno

APPOINTMENT.Doctor-Lic references DOCTOR.Lic-no

APPOINTMENT.Patient-Id references PATIENT.Pid

