AbdelRahman Adel AbdelFattah

Sheet 4

7.16) a) Student → name, number, social security number, current address, phone number

permenent address, Phonenumber

date of birth, sex, class, major, minor, degree program

Some applications refer → state & ZIP Code of permanent address, and last name

unique → social security & student number

b) Department → name, code, office number, office phone number, college

unique → name, code

c) Course → name, description, course number, number of semester hours, level, offering department.

unique → course number

d) Section → Instructors, semester, year, course, section number (unique section number + course

e) Grade report has a' student, section, letter grade, numeric grade

entities: student, Department, Course, Section, (Grade report) → weak

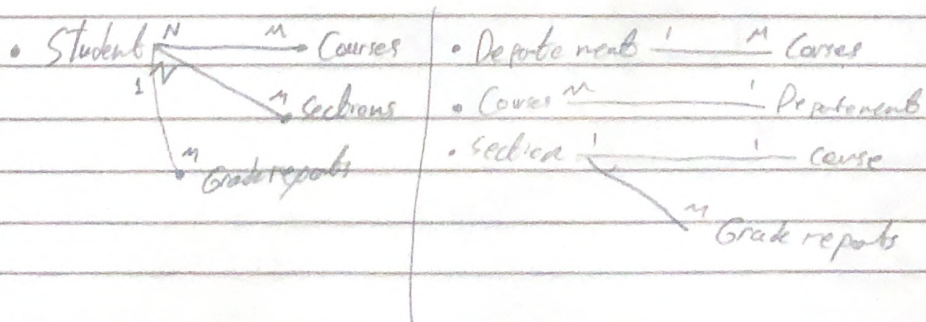Relations: student → (Course, section, Grade report)

    Department → (course)
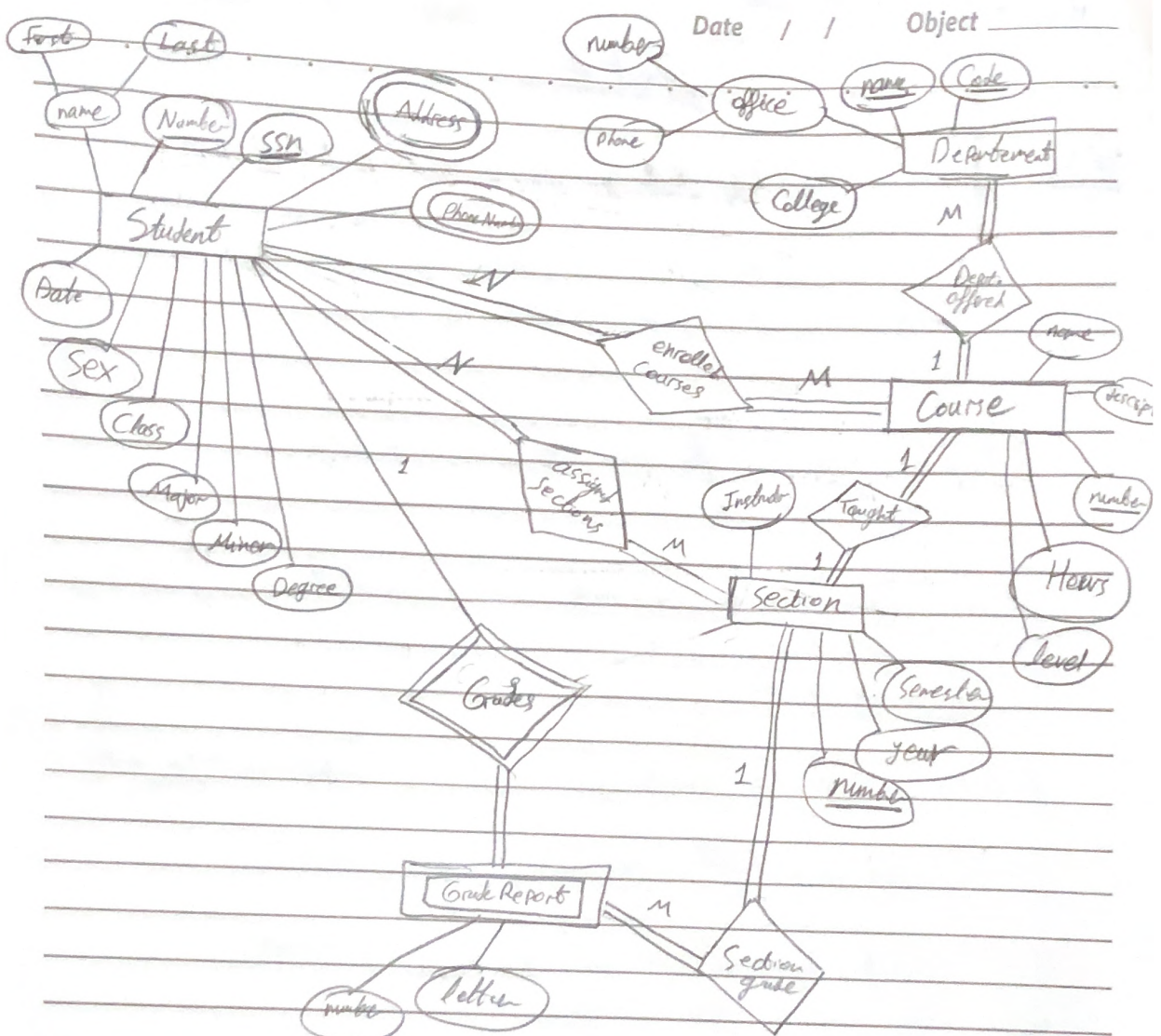
    Course → (Department)

    Section → (Course, Grade report)

    Grade report (section)

7.19)

a) Airpot has a code, city, state, and a name, and a list of Airplane types that can land in it, and departure times of flights & Arrival times of flights, with each of the flights having flight legs.

b) Airplanes have an Id, Total no. of seats & the assigned flight instances and each Airplane has a type and a list of airports it can land in.

c) Reservation has a seat no & customer name & phone with it's flight instance

d) Flight have legs, Fares, number, Arrbi & weekdays where it works

e) Fare have restrictions, Amount, code

f) Leg instance have date and available seats & the plane assigned to it

7.22) Team → number of plays
      game → result
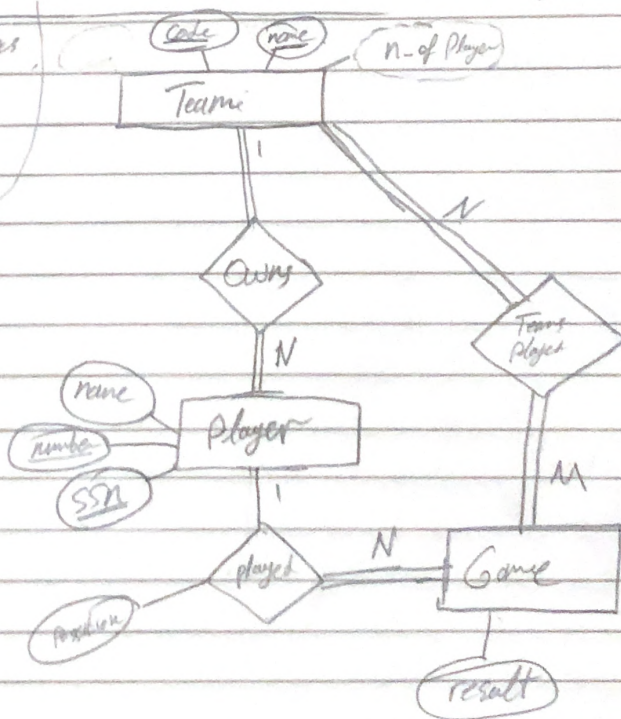   Player → positions

entities in game
     Team
     Player

Soccer

3

9.4

SHIP | Sname | Owner | Type | History

SHIP_TYPE | Type | Tonnage | Hull

SHIP_MOVEMENT | Date | Time | Long/lude | latitude | SHIP Name

PORT_VISIT | Start_date | end date   SHIP at port | Sname | Time | Start

PORT | Pname | IN | ON | VISITS   HOMEPORT | SHIP | name

STATE/COUNTRY | Name | Contienant

SEA/OCEAN/LAKE | Name