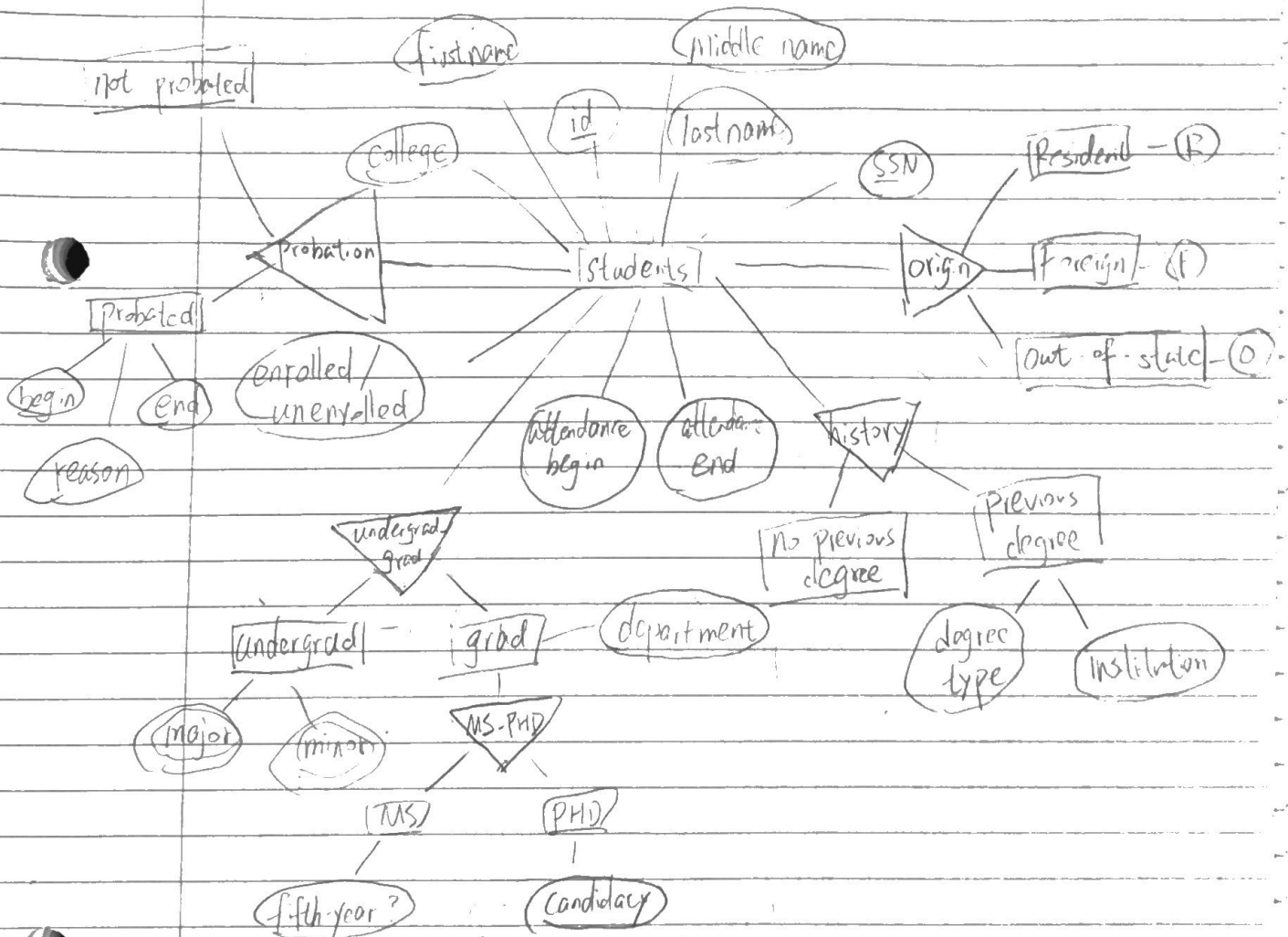


CS 132B

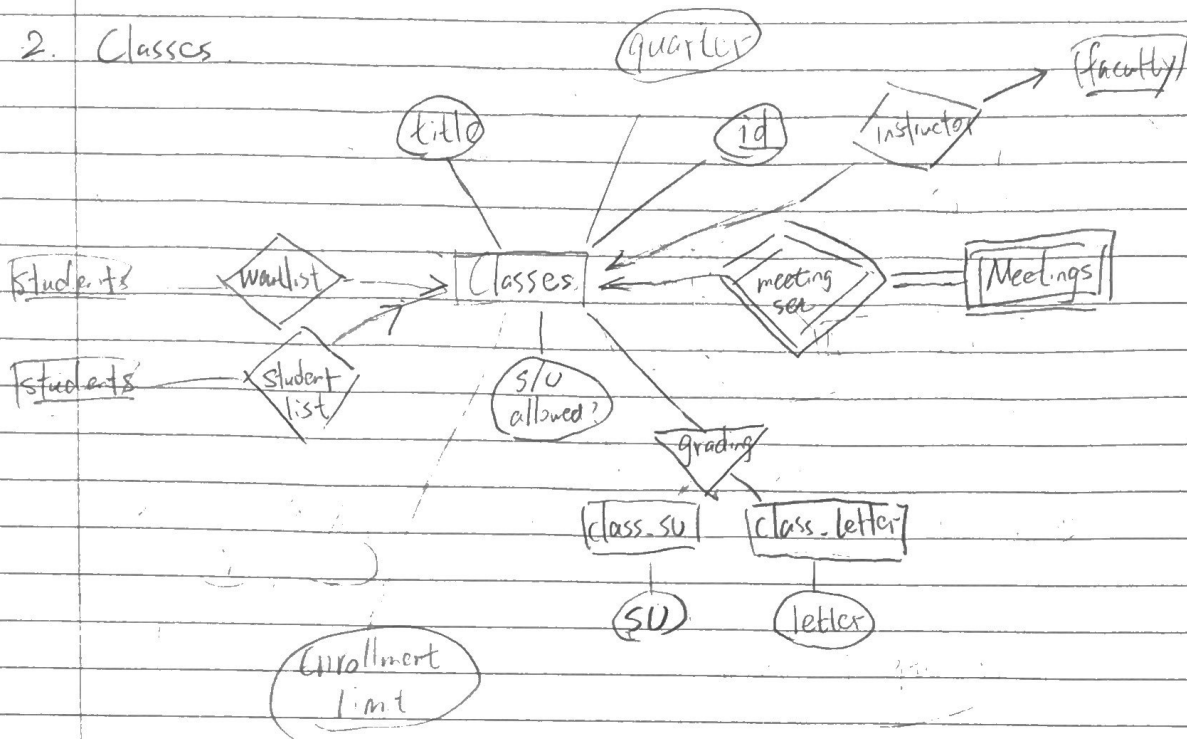
Milestone 1

E/R Schema

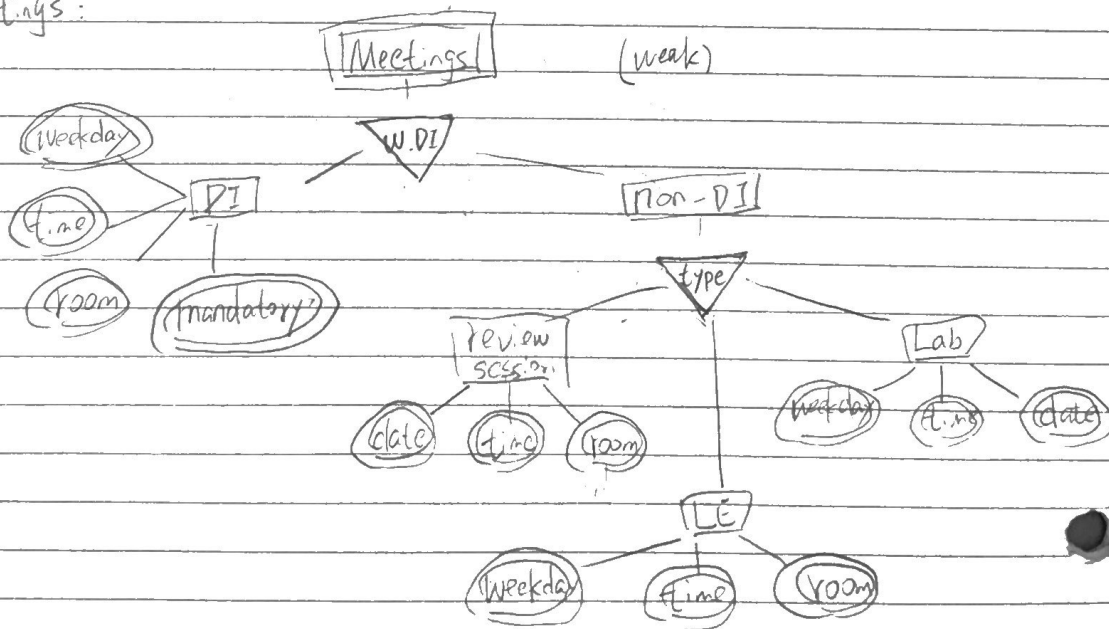
1. students strong entity set.



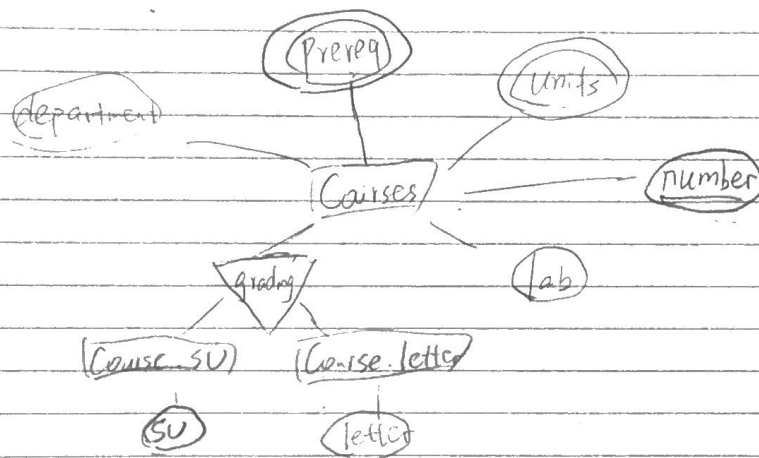
2. Classes



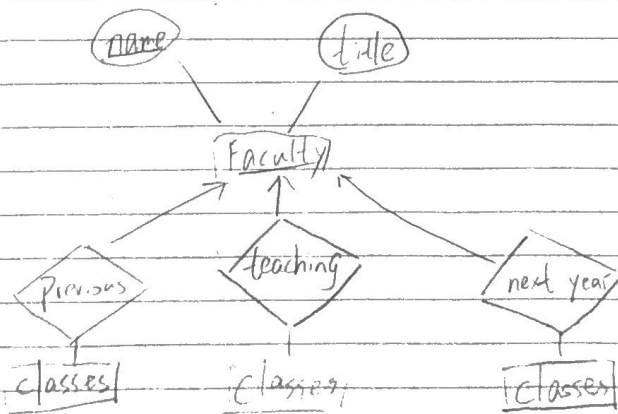
Meetings:



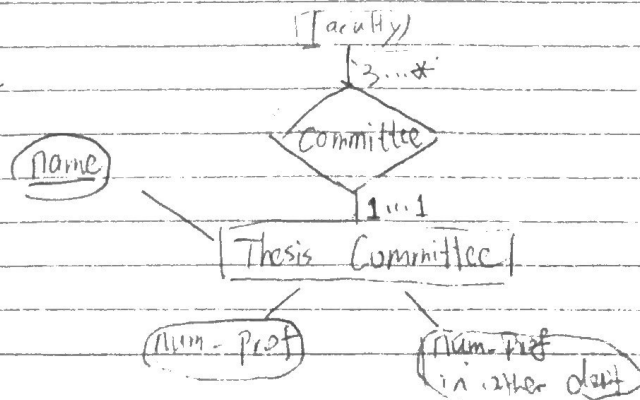
3. Courses



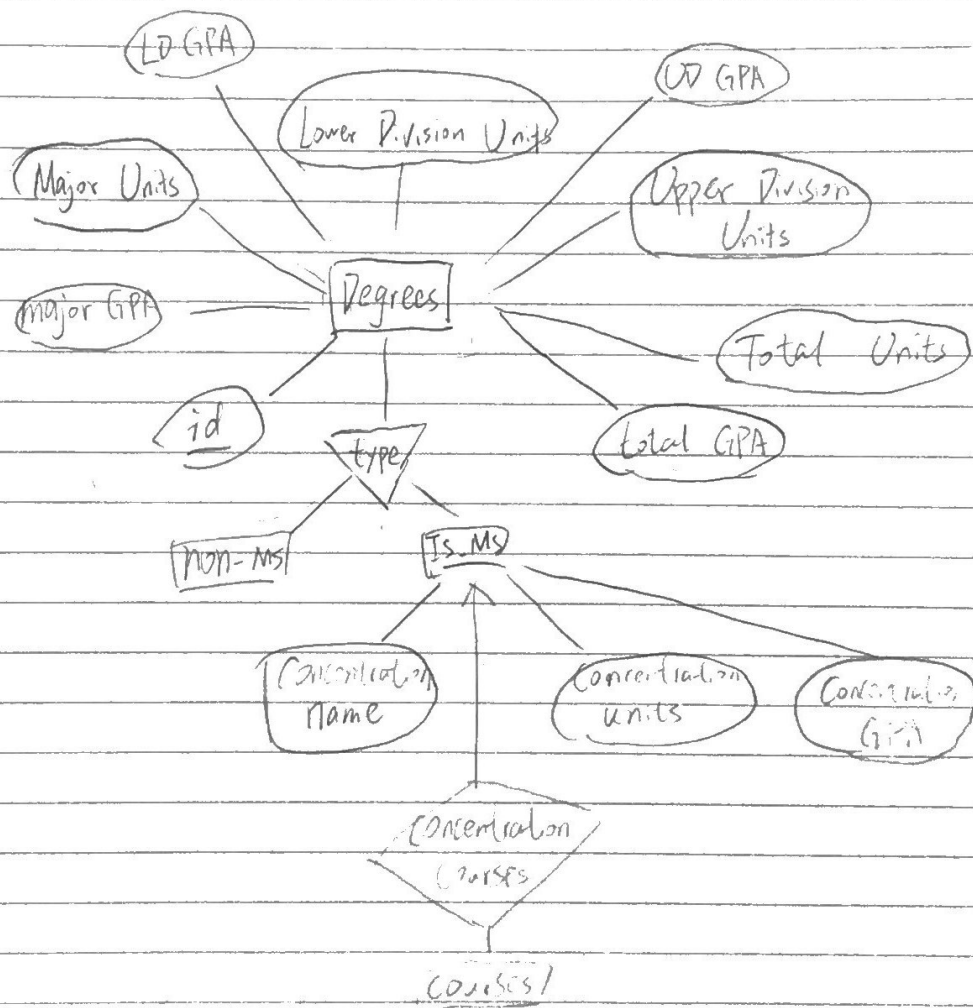
4. Faculty



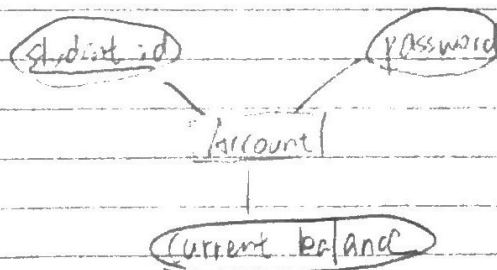
5. Thesis Committee



6. Degrees



7. Account



students = (id, ssn, firstname, lastname, middlename, enrolled,
attendance begin, attendance end,
undergrad-grad, college)

Courses = (number, prereq, department, units, lab)

classes = (id, title, quarter, instructor, S/U allowed)

Faculty = (name, title)

Thesis Committee = (name, num-prof, num-prof-in-other-dept)

Degrees = (MajorUnits, MajorGPA, LDUnits, LDGPA, JDUnits, JDGPA,
TotalUnits, TotalGPA, id)

Account = (student-id, password, account-balance)

waitlist = (students, classes)

studentlist = (students, classes)

Meetingset = (classes, Meetings)

previous = (Faculty, classes)

teaching = (Faculty, classes)

nextyear = (Faculty, classes)

committee = (Faculty, Thesis-Committee)

Resident = (id, ssn, R) Foreign = (id, ssn, F) Out-of-State = (id, ssn, O)

undergrad = (id, ssn, major, minor) grad = (id, ssn, department)

MS = (id, ssn, department, fifth-year) PhD = (id, ssn, department, candidacy)

probated = (id, ssn, begin, end, reason) not-probated = (id, ssn)

previous degree = (id, ssn, degree-type, institution) no-previous-degree = (id, ssn)

class-su = (id, su) class-letter = (id, letter)

course-su = (number, su) course-letter = (number, letter)

Non-MS = (id) IS-MS = (id, concentration-name, concentration-units,
concentration GPA)

Concentration Courses = (IS-MS, courses)

To change this into 3rd Normal Form:

Degrees should be separated into 2 forms, as
Total Units and total GPA can be calculated from
LD units, LD GPA, UD Units and UD GPA.

Degree = (id, Major_Units, Major_GPA, LD_Units, LD_GPA, UD_Units,
UD_GPA)

Degree_Total = (id, Total_Units, Total_GPA)