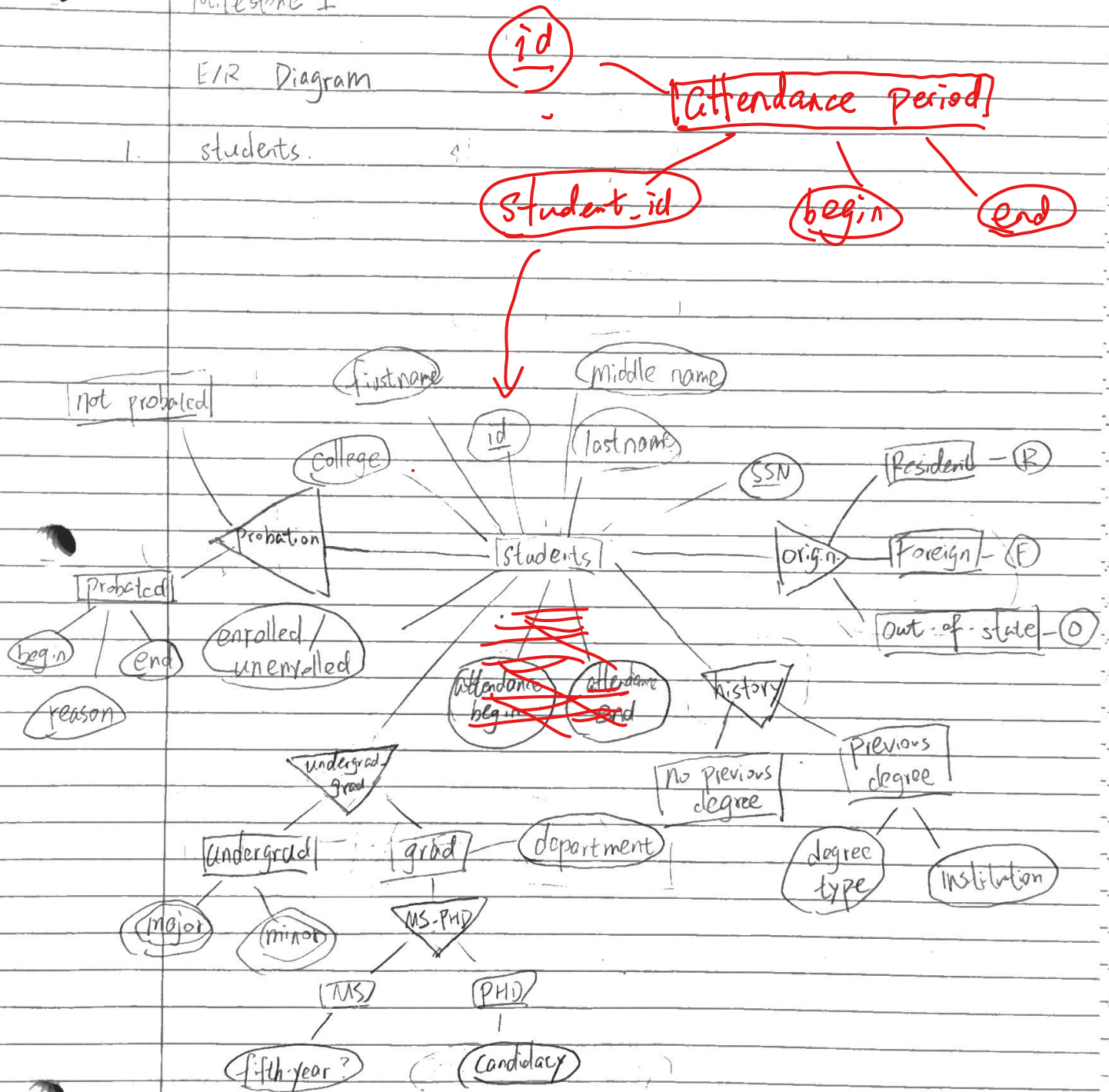


CSE132B

Milestone 1

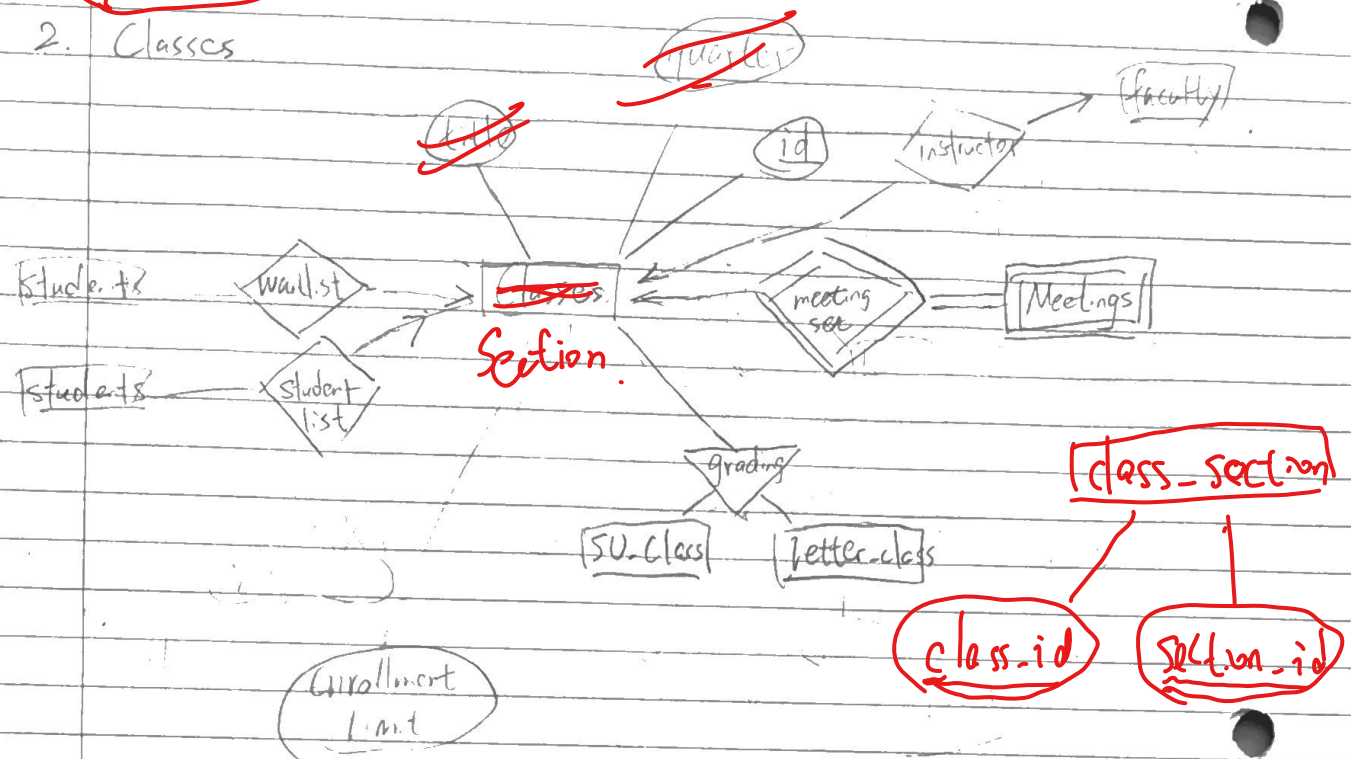
E/R Diagram

1. students.

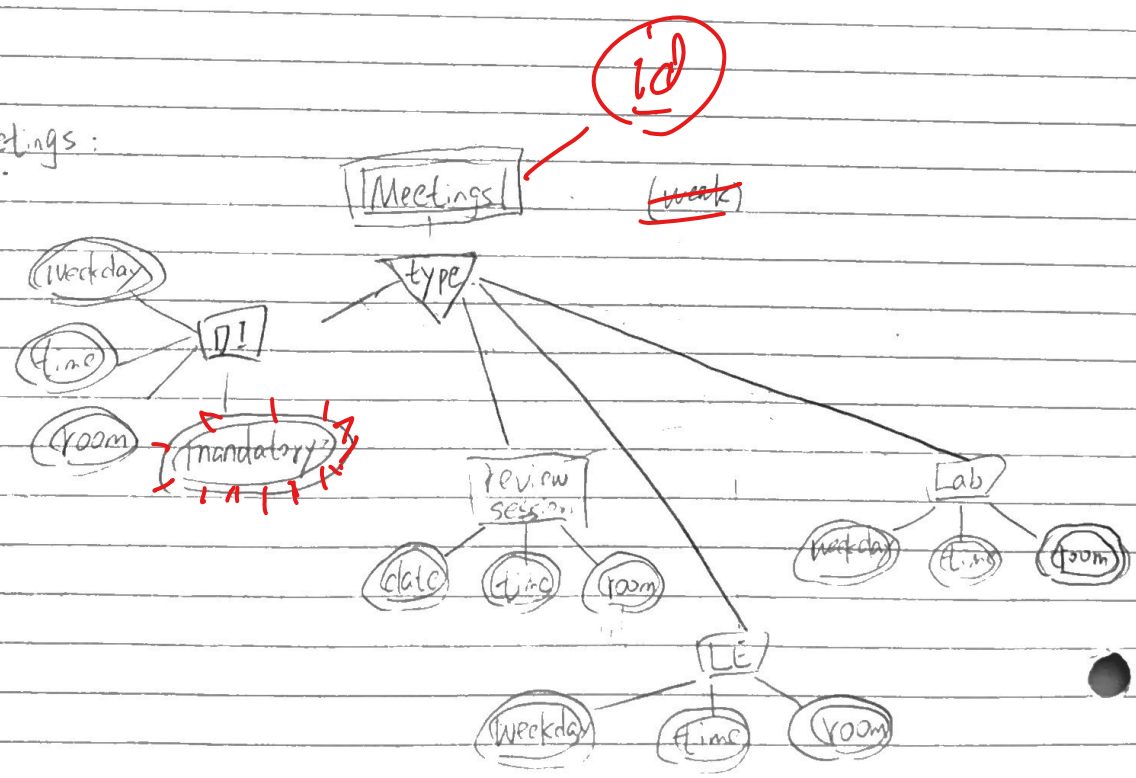


-title ——— classes ——— id
 quarter

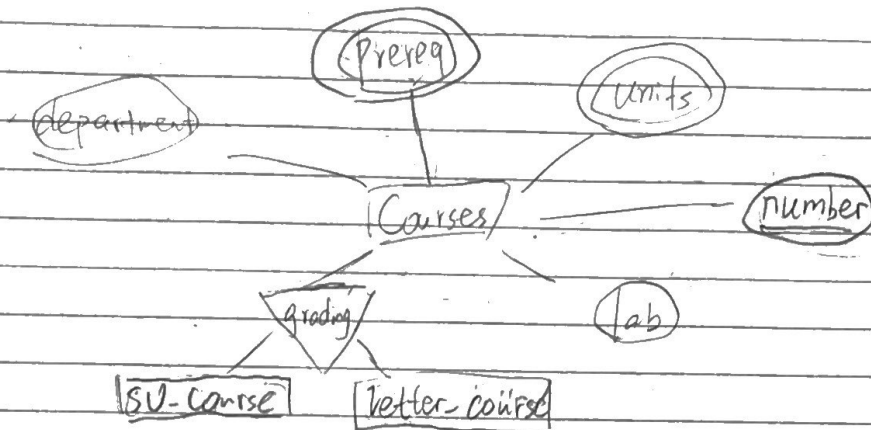
2. Classes



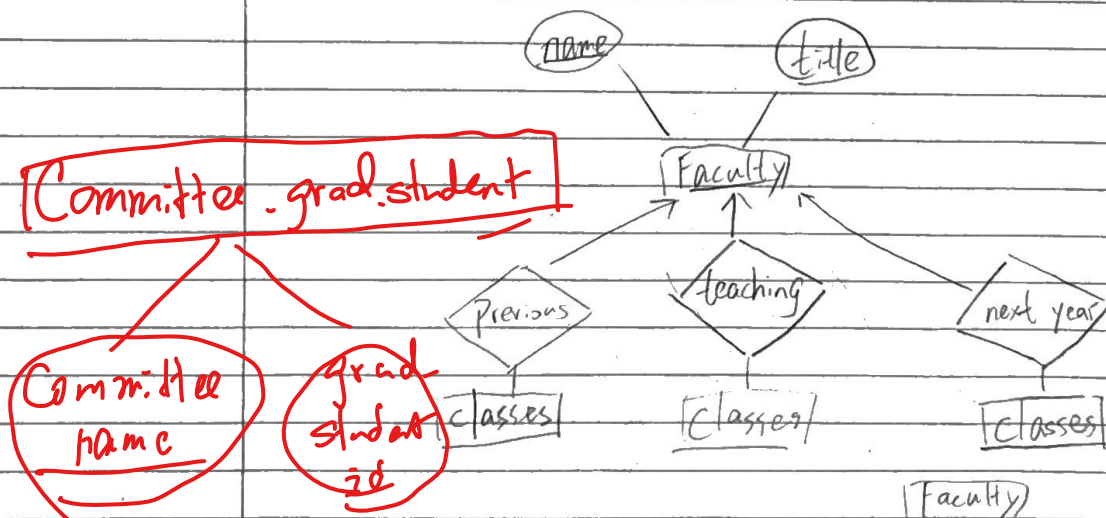
Meetings:



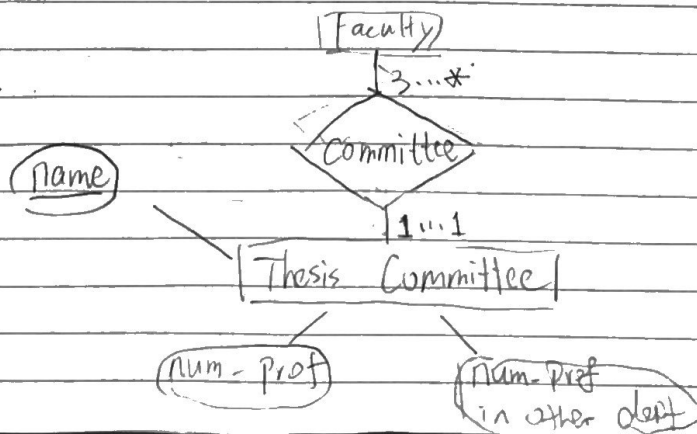
3. Courses



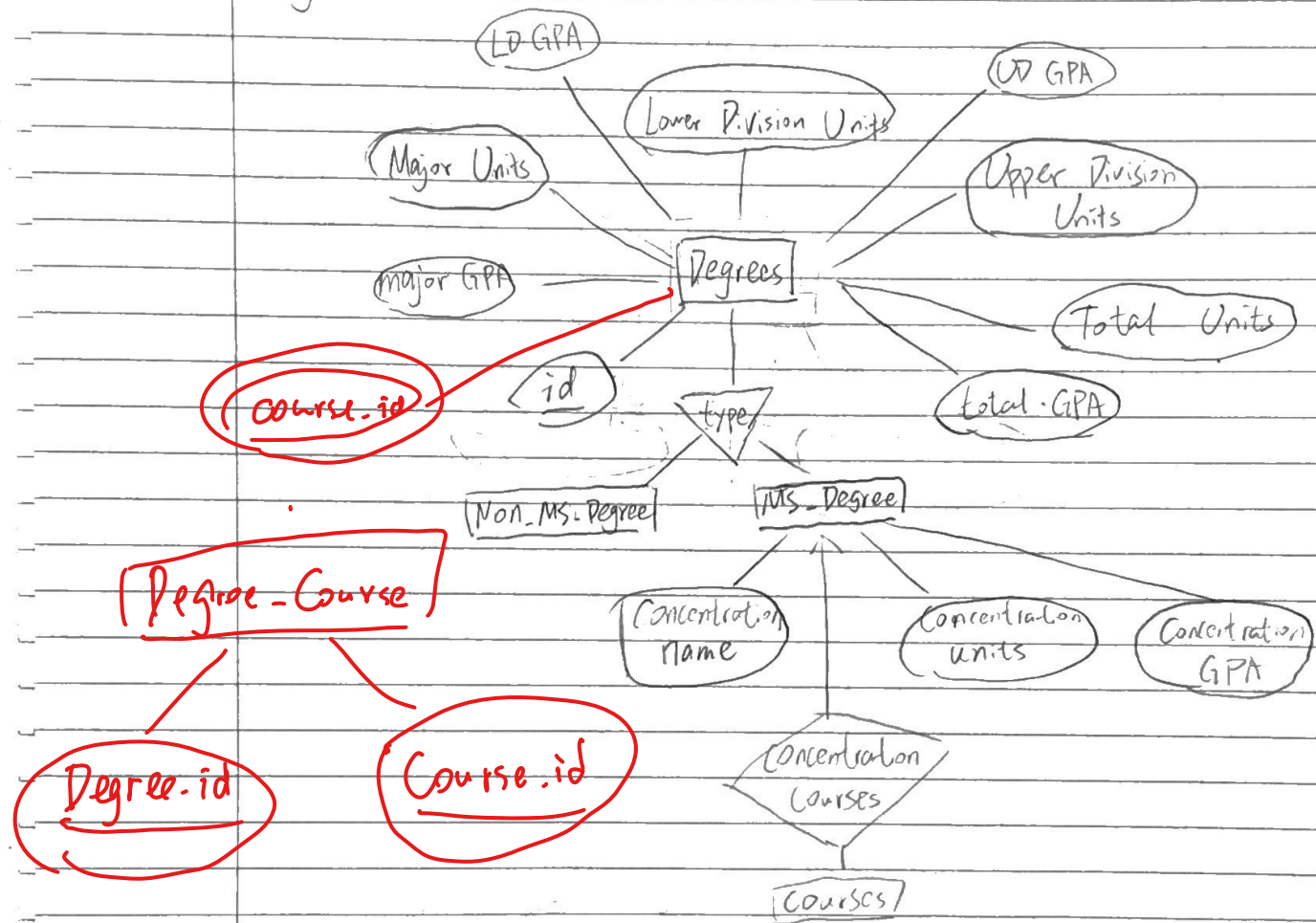
4. Faculty



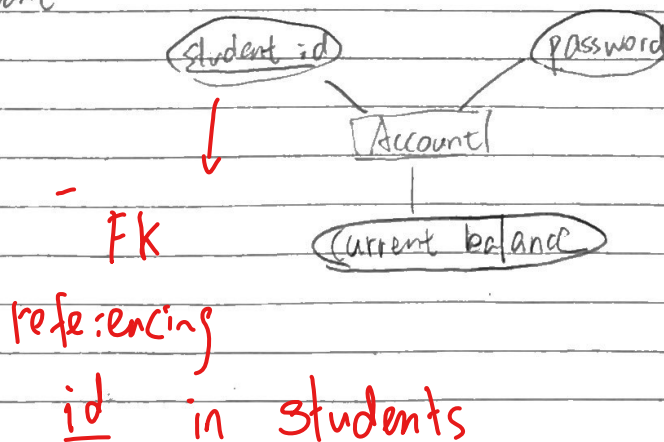
5. Thesis Committee



6. Degrees



7. Account



students = (id, SSN, firstname, lastname, middlename, enrolled, ~~attendance begin~~, ~~attendance end~~, undergrad-grad, college)
 SU-course = (number, prereq, department, units, lab)
 Letter-course = (number, prereq, department, units, lab)
 SU-class = (id, title, quarter, instructor)
 Letter-class = (id, title, quarter, instructor)
 Faculty = (name, title)
 Thesis-Committee = (name, num-prof, num-prof-in-other-dept)
 Non-MS-Degree = (id, Major-Units, Major-GPA, LD-Units, LD-GPA, UD-Units, UD-GPA, Total-Units, Total-GPA)
 MS-Degree = (id, Major-Units, Major-GPA, LD-Units, LD-GPA, UD-Units, UD-GPA, Total-Units, Total-GPA, concentration-name, concentration-units, concentration-GPA)
 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)
 PT = (weekday, time, room, mandatory) review-session = (date, time, room)
 Lab = (weekday, time, room) LE = (weekday, time, room)
 Account = (student-id, password, account-balance)

Concentration Courses = (MS-Degree, courses)

To change this into 3rd Normal Form:

Both MS and Non-MS

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)