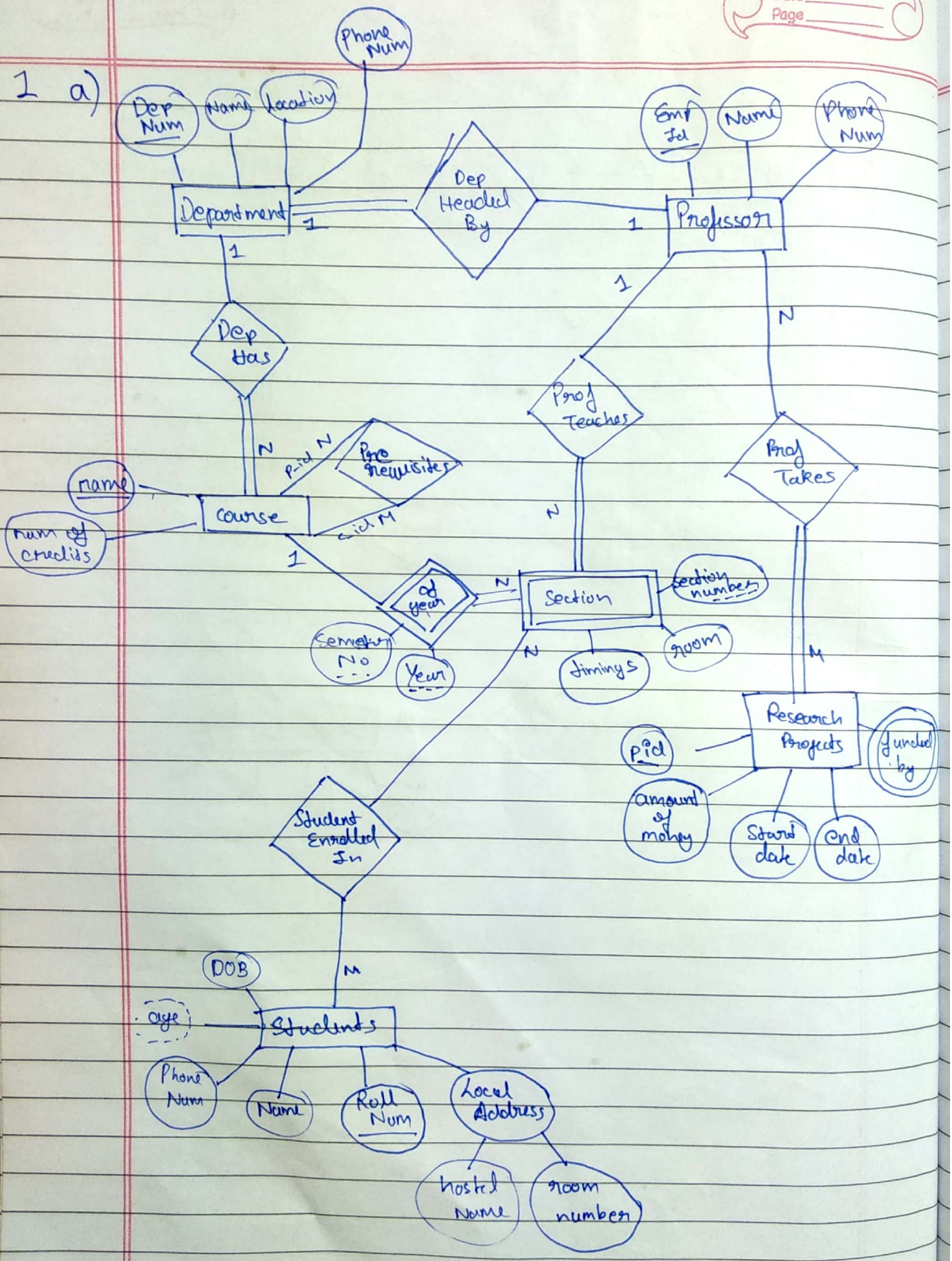
1 a)



b) 1) Professon (EmpId , Name , PhoneNum)

2) Department (Depnum , headed_by_id , Name, location, phone num)

foreign key to professon

3) Course (Name , num_of_credits , department)

foreign key from department

4) Section (SecNo , SemNo , Year , Timings , Room , Prof_EmpId , c_name)

→ Prof_EmpId is a foreign key from

→ Professon

foreign key from Course

5) ResearchProject (Pid , amt_of_money, start_date, end_date, funded_by)

6) Student Enrolled In (RollNo , section_number, semester_num, year, c_name)

foreign key from Students

foreign key from Section

7) Students (DOB, age, phonenum, name, rollnum, room_num , hostel_name)

8) ~~Pre~~ for Prereqs (c_name 1 , c_name 2)

foreign keys from course

4) Prof Takes (P_EmpId , R_pid)

for. key from professon

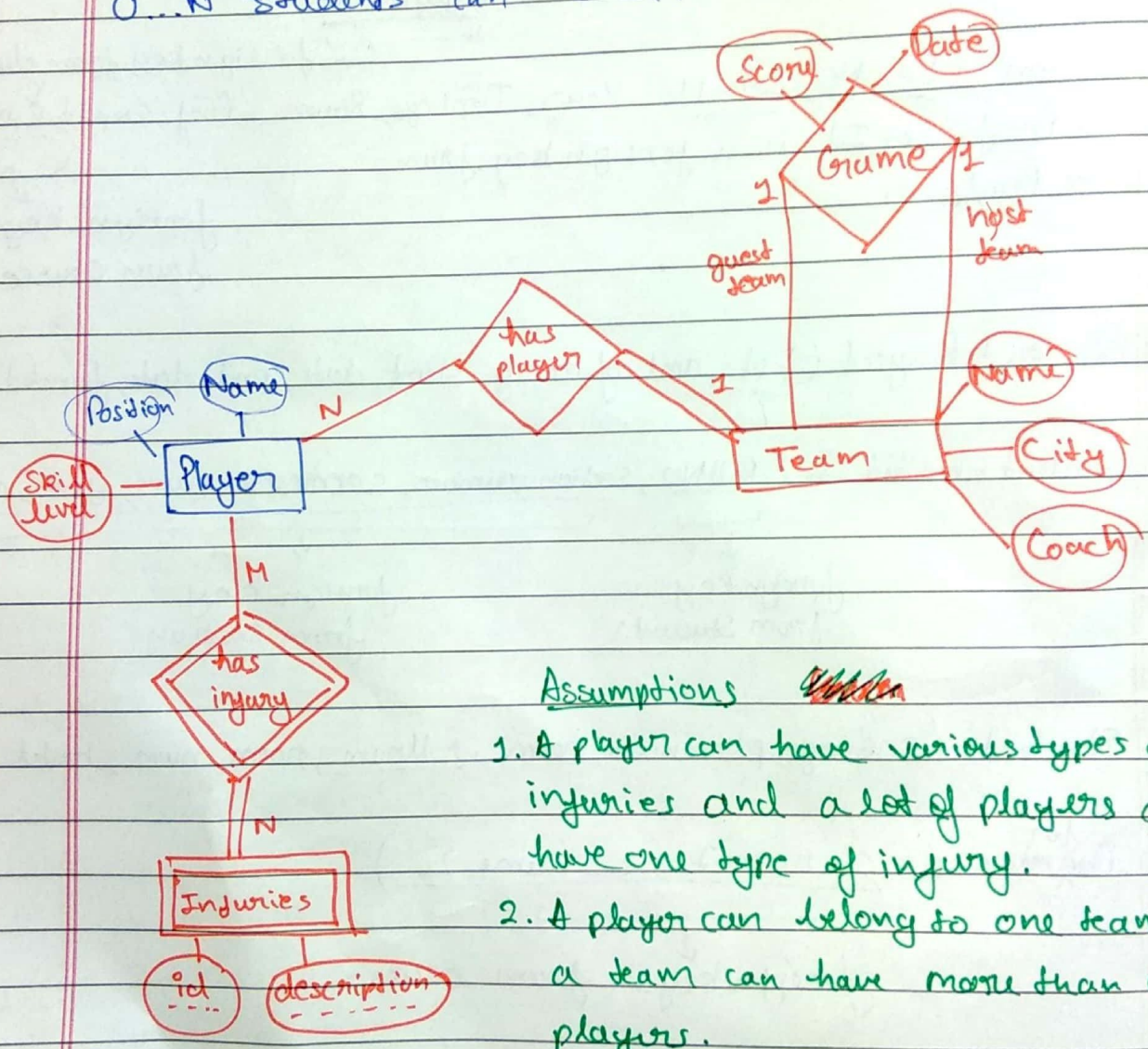
foreign key from research project.

Assumptions about constraints

1) Each department has a professor (1 prof can hold only one department)

2) ~~Each course~~
0...N students can be enrolled in 0...M sections

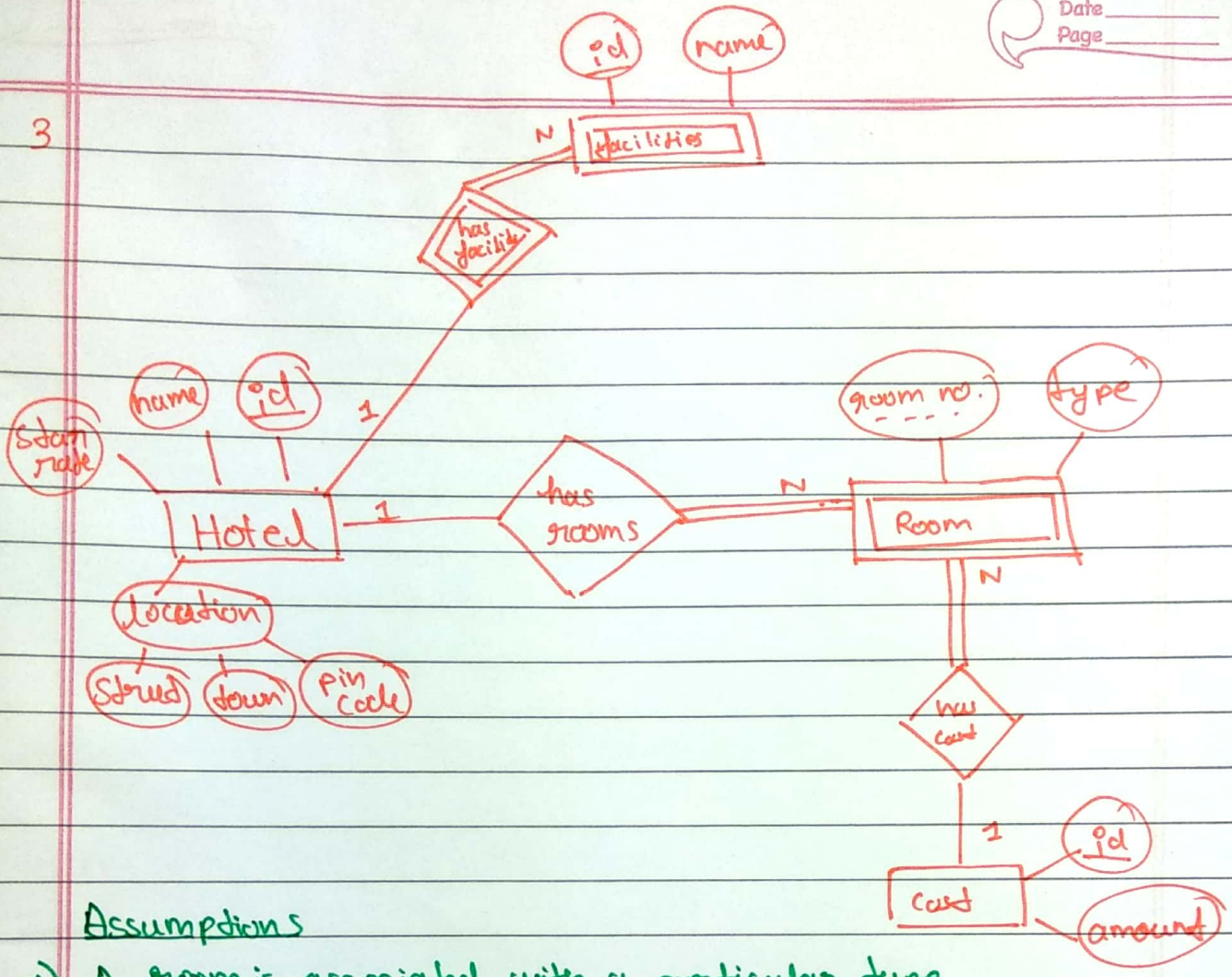
2



Assumptions

1. A player can have various types of injuries and a lot of players can have one type of injury.
2. A player can belong to one team and a team can have more than one players.

3



Assumptions

1) A room is associated with a particular type of cost but multiple rooms can be of the same cost.

4 ER Schema / Tables.

Hotel (id, name, star_rate, street, town, pin_code)

facilities (id, name, hotel_id)

↓ foreign key from hotel

Room (room_no, type, cost_id, hotel_id)

↓ foreign from cost. foreign from hotel

Cost (id, amount)