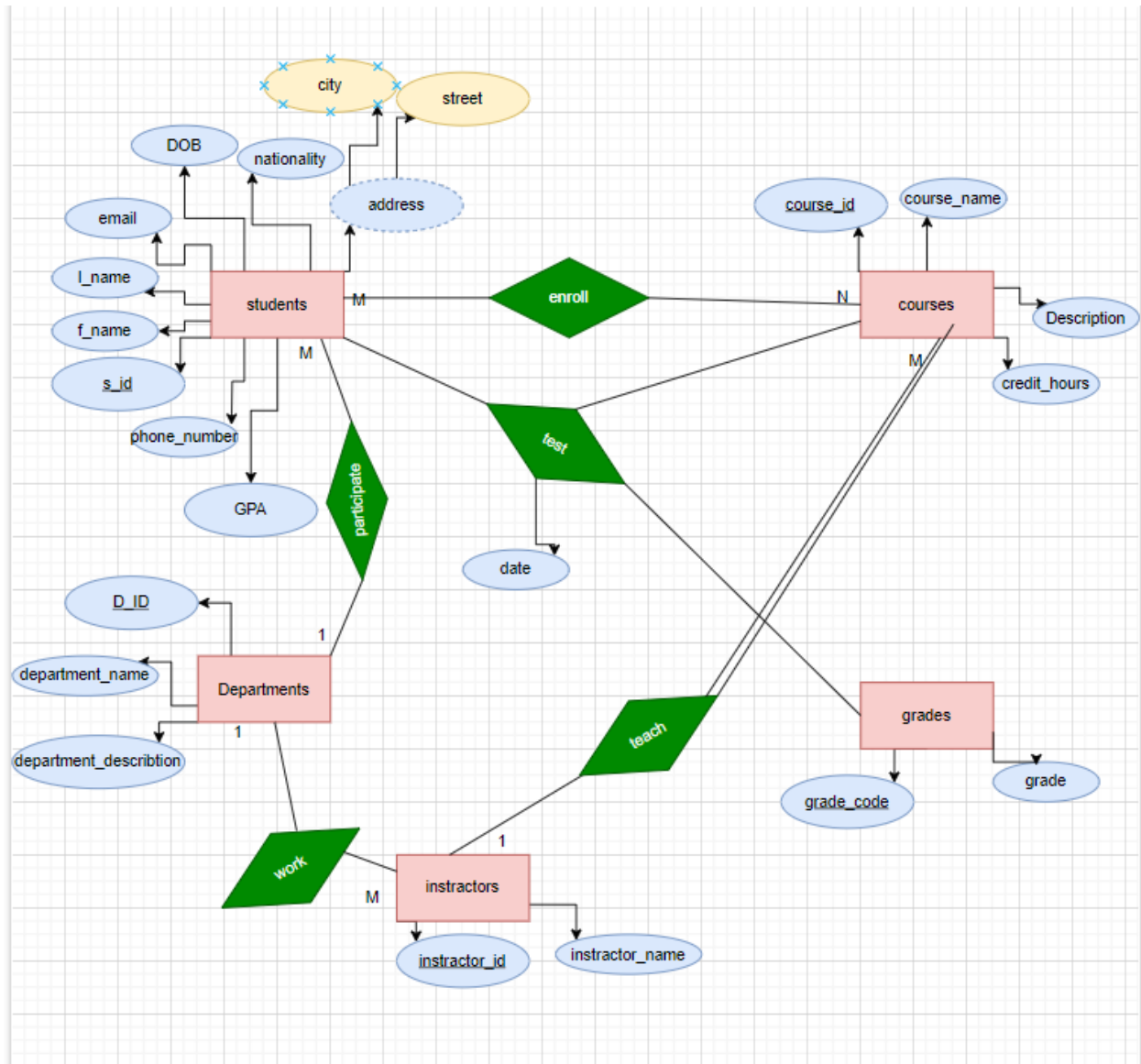


## ERD & mapping& normalization

### ERD:



### **Mapping& normalization:**

1. Students(student\_id(pk), f\_name, l\_name, DOB, email, nationality, phone\_number,city, street, GPA, department\_id(fk))
2. Courses(course\_id(pk), course\_name, description, credit\_hours, instructor\_id(fk),)
3. Departments(department\_id(pk), department\_name, department\_description)
4. Grades(grade\_code(pk), grade)
5. Instructors(instructor\_id(pk), instructor\_name, department\_id(fk))
6. Coursrs\_enrolled(student\_id(fk), course\_id(fk))
7. Test\_result(student\_id(fk), course\_id(fk), date, grade\_code(fk))