Case — 1.

Entities and relationships:

- **Member number** — Member
- **Member name** — Member
- Member **1...1** Reserve **1...*** (to Book)
- Member **1...1** Rents **1...*** (to Book)
  - Copy numebe
  - borrow date
- **Address** — Member
  - House no
  - city
  - state name
- **Book**
  - Book ID
  - ISBN number
  - Edition
  - Book name
- Book **1...*** belongs **1...1** catagory
- Book **1...#** written **1...*** Author
- **catagory**
  - Customer name
  - Customer number
- **Author**
  - Author ID
  - Author name

Case - 2

Student —1...* attends 0---1 class —1---* takes —1...* Teacher

Teacher: Lecture, Professor

Student —register— course

class —1---1 has section

course —1---* makes 1---* Lecture

Lecture —combine— Assignment

Assignment: Home work, Exam, project

course —enquire— Gradians —1 *