

Practical : 2

Objective : To draw the ER diagram of a given case study using draw.io

Case Study :

In a College,

There are several departments, and each department has many faculties.

- Out of the faculties from each department, one faculty is acting as Head of Department.
- Department has a name, Id, phone extension, specific mailing address, and Students that belong to the department.
- Students can belong to only one department at a time.
- Department can have more than one or no student.
- Students have their name, unique identification number, address, age, gender, hobbies, and other information.
- Faculty also have information similar to Students except for hobbies.
- A student studies different Courses.
- A department can run many courses, and a course can run in many departments.
- Faculty teaches these Courses. Faculty can teach more than one course. • Department can run many sections.
- Many students can be in one section, and each section has its name and the max capacity.
- A student must do one mini-project, and one mini-project can be opted by one student only. • Faculty members can teach in multiple Departments.
- Each course can be taught by many faculty members or no one.
- Faculty members are also working on multiple research projects.
- Research projects are either sponsored by the government, industry, or the college itself.
- One project can have more than one faculty member, and one faculty member can work on more than one project.

Diagram :

