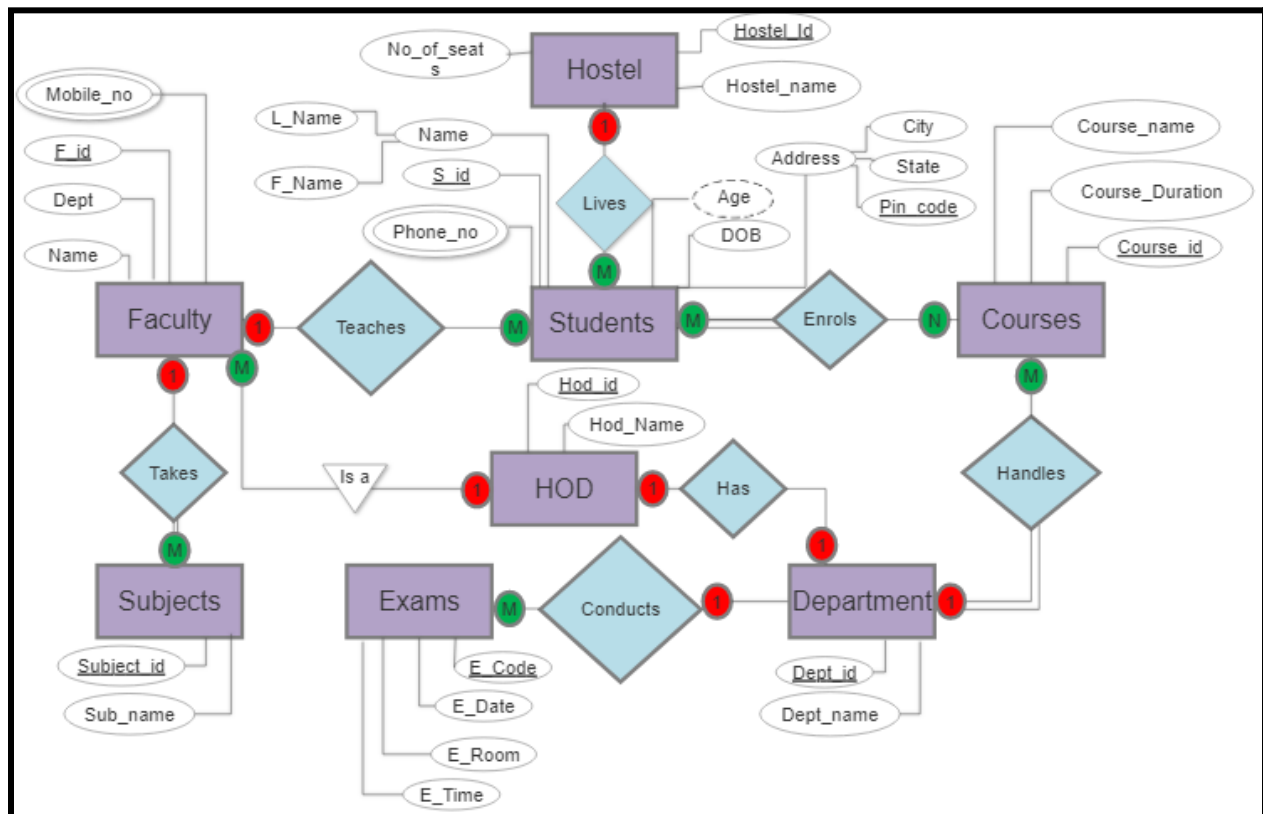


ERD for College Management System

As on 15/07/2022

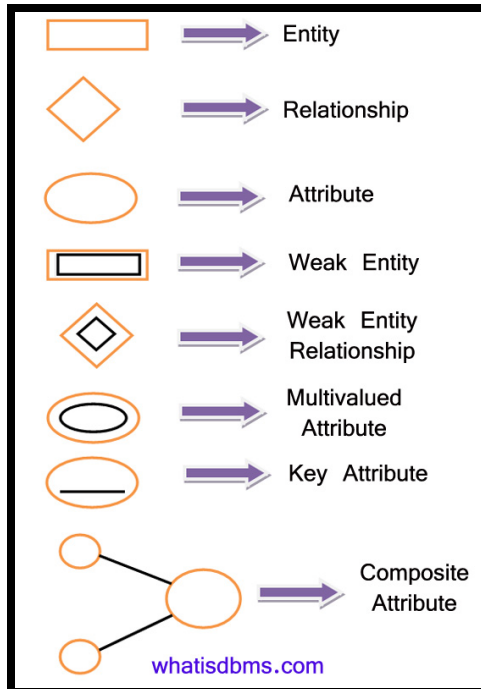
By Devayush Bajaj



Meaning of ER Diagram - Entity Relationship Diagram (ERD) is a visual representation of different entities within a system and how they relate to each other.

Shapes used in ER diagram

- Rectangle - Entity
- Eclipse - Attributes
- Diamond - Relationship
- Single line - partial participation
- Double line - Total Participation



My Perspective statement:-

In the above ER diagram you can easily see the relationship between entities and software of college management database

In my ER Diagram there are 8 entities:

- 1) Hostel
- 2) Faculty
- 3) Students
- 4) Courses
- 5) Subjects
- 6) Exams
- 7) Departments
- 8) HOD

Relationships Between entities

- 1) Student **Enrolls** courses
- 2) Department **Handles** courses
- 3) Faculty **Teaches** Students
- 4) Faculty **Takes** Subjects
- 5) Department **Conduct** Exams
- 6) Student **Living** Hostel
- 7) Faculty **belongs** to department

Primary Keys

- 1) faculty_id
- 2) Student_id
- 3) Course_id
- 4) Subject_id
- 5) E_code
- 6) Dept_id
- 7) Hod_id

Cardinality Ratio

- 1) Department - many courses, many exams, many faculties, many students, single HOD
- 2) Faculty - single department , many subject, many students
- 3) Student - many courses, single hostel, many exams
- 4) Hostel - many students
- 5) Courses- One department, one exam, many students, single Hod
- 6) Exam - many Departments, many students
- 7) HOD - many faculties, many students, single course