CSE 202 Project Synopsis
College Database

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Synopsis

We thought of developing “College Database Management System” to eliminate the problems that arise in manual management of database which is still being practiced at a lot of institutions. Using our Database, Colleges can manage their existing records effectively and without any hassle and manage their future records efficiently.

Our DBMS covers most of the functionalities that any college would require to computerize its day to day database management.

Overview: It keeps the record of all the instructors currently teaching and their associated departments. Instructor also offers various courses in that particular semester which a student can take to fulfill his credit requirement of that semester.

Student: In our Student table we have details of all the students that have ever studied in that college. Details include Name, Gender, Blood Group, Stream, CGPA, Batch, Phone, etc and can be uniquely identified by their ID.

These student then choose from various Courses that are given by the college in that particular semester details of which are in the Offering table (mentioned later).

Course: In Course table we have details of the available courses, ie Name, Credits and are differentiated by their Number.

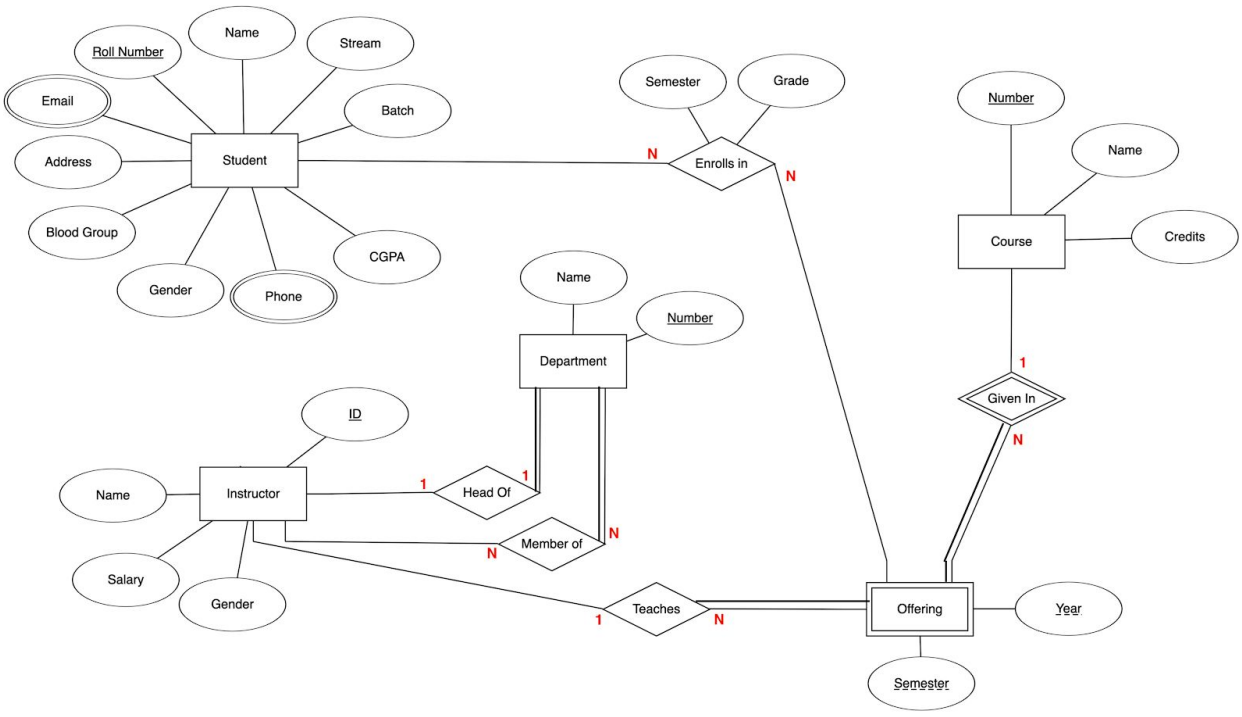
Offering: Offering is a weak table which depends on the courses mentioned above and lists the semester and year when that course is offered to the students.

Instructor: The courses listed above are taught by Instructors, details of which are in the Instructor table. Which include Name, Gender, Department, Salary and have a unique ID associated with them.

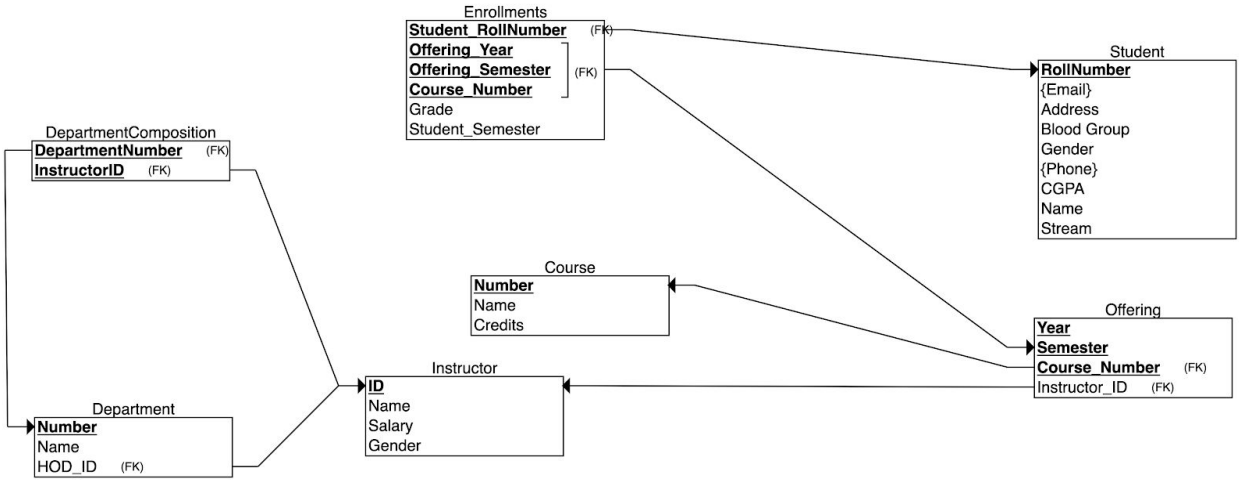
These instructors can then either be the Head of a department or merely a member of it.

Department: This table lists all the available departments that exists in the college of which instructors are part of, each department is given a Number and Name.

ER Diagram



Relational Schema



Implementation Platform Detail

Python, MySQL