

CS6307 Introduction to Big Data Management and Analytics for non CS-Majors

Assignment 1

University Enrollment System

Author:

Randy Suarez Rodes rxs179030

Ping Chen pxc190026

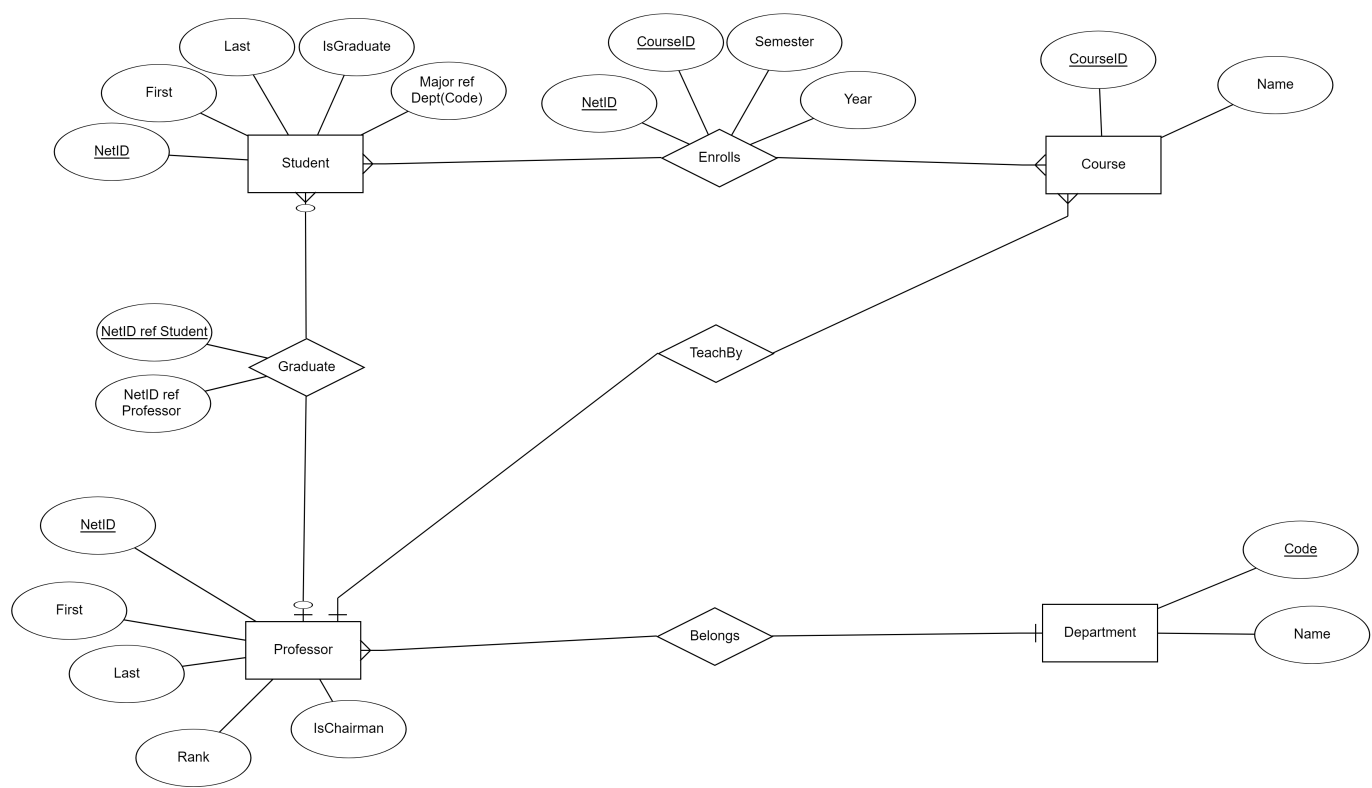
Supervisor:

Anurag Nagar Ph.D.

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1 Entity Relation Diagram



Note: Graduate Relation is optional for both entities, this is not all students have an advisor (only graduate students) and a professor can advise several graduate students or none.

2 Relational Model

Department (Code, Name)

Student (NetID, First_Name, Last_Name, Major(Department Code), IsGraduate)

Professor (NetID, First_Name, Last_Name, Rank, Department (Department Code), Is-Chairman)

Graduate (NetID (Student), Advisor (Professor NetID))

Course (Course_ID, Course_Name, TeachBy (Professor NetID))

Enrolls (Course_ID, NetID (Student), Semester, Year)