User(UserID, Username, Password, Type)

* Type is Enum(‘Admin’, ‘Instructor’, ‘Student’)
* UserID format: [23000]0001, [23000]0002

Profile(UserID, Name(FirstName, LastName), Sex, Birthdate, Major)

* Name is composite attribute from FirstName, LastName

WorkContactDetails(UserID, Email, Phone)

* Phone is only required for Admins and Instructor, so can be null for Students
* Email is required for all

PersonalContactDetails(UserID, Email, Phone)

* Both are required

Admins(AdminID, UserID)

* Relationship Table, used to store those whose Type is ‘Admin’
* AdminID primary key, foreign key to Profile.UserID
* AdminID format A0001, A0002

Instructors(InstructorID, UserID)

* Relationship Table, used to store those whose Type is ‘Instructor’
* InstructorID primary key, foreign key to Profile.UserID
* InstructorID format: T0001, T0002

Students(StudentID, UserID)

* Relationship Table, used to store those whose Type is ‘Student’
* StudentID primary key, foreign key to Profile.UserID
* StudentID format: S0001, S0002

StudentCourses(StudID, CourseID, QuizGrade, MidtermGrade, FinalGrade, ProjectGrade, TotalGrade)

* Student (1,N) – Courses (N,N) Total Many to Many
* TotalGrade is derived from QuizGrade MidtermGrade FinalGrade and ProjectGrade

Courses(CourseID, CourseName, MaxCap, InstructorID)

* Instructor (1,1) – Courses (1,1) Total One to One

Announcements(AnnouncementID, Announcement, CourseID)

Alerts(AlertID, Alerts)