

We assume that one course can only have one difficulty while one difficulty can be assigned to many courses (that is, the courses having same DifficultyLevel) (many-one) DifficultyLevel must be unique as we are going to calculate it based on exams discussions etc with different portions, for example, if exams, discussions, etc are 3,5,9,8, the difficulty level would be 3598, so use DifficultyLevel can define the other four attributes.

UserInfo(UserID: INT [PK], UserFirstName: VARCHAR(50), UserLastName: VARCHAR(50)) Courses(CRN: INT [PK], Year-Term: VARCHAR(15), CourseName: VARCHAR(100), CourseNumber: VARCHAR(10), Rate: INT) Department: VARCHAR(15))

Professors(ProfessorID:INT[PK], ProfessorName: VARCHAR(50) Department: VARCHAR(15),

Difficulty(DifficultyLevel:INT[PK], Exams: VARCHAR(100), Discussions: VARCHAR(100), Labs/Mps:VARCHAR(100), Homework: VARCHAR(100),)

Search(CRN, UserID: [PK], UserID: INT [FK to UserInfo:UserID], CRN: INT [FK to Courses:CRN])

DifficultyOfCourses(CRN, Difficulty Level: [PK] DifficultyLevel: INT [FK to Difficulty], CRN: INT [FK to Courses:CRN])

Teach(CRN, ProfessorID: [PK], ProfessorID: INT [FK to Professors:ProfessorID],

CRN: INT [FK to Courses:CRN]) A INT, B INT, CoursesHasGrades(C INT. CRN, GradeLevel: [PK] D INT, GradeLevel: INT [FK to Grades], F INT, CRN: INT [FK to Courses:CRN]) W INT)

Grades(

GradeLevel:DECIMAL(6,2)[PK], AvgGPA:DECIMAL(3,2),