**CREATE TABLE** USER (

Username VARCHAR(15) **NOT NULL,**

Password VARCHAR(15) **NOT NULL,**

Email VARCHAR(30) **NOT NULL,**

Year VARCHAR(10) **NOT NULL,**

Major VARCHAR(20) **NOT NULL,**

UserType VARCHAR(5) **NOT NULL**

**PRIMARY KEY** (Username),

**FOREIGN KEY (**Major**) REFERENCES** MAJOR(Name)

);

**CREATE TABLE** PROJECT (

Name VARCHAR(40) **NOT NULL,**

Description VARCHAR(200) **NOT NULL,**

AdvisorEmail VARCHAR(25) **NOT NULL,**

AdvisorName VARCHAR(25) **NOT NULL,**

EstimatedNumStudents INT **NOT NULL,**

DesignationName VARCHAR(15) **NOT NULL,**

**PRIMARY KEY** (Name),

**FOREIGN KEY (**DesignationName**) REFERENCES** DESIGNATION(Name)

);

**CREATE TABLE** PROJECT\_REQUIREMENT (

Name VARCHAR(40) **NOT NULL,**

Requirement VARCHAR(25) **NOT NULL,**

**PRIMARY KEY** (Name, Requirement),

**FOREIGN KEY (**Name**) REFERENCES** PROJECT(Name),

);

**CREATE TABLE** DESIGNATION (

Name VARCHAR(25) **NOT NULL,**

**PRIMARY KEY** (Name),

);

**CREATE TABLE** CATEGORY (

Name VARCHAR(40) **NOT NULL,**

**PRIMARY KEY** (Name),

);

**CREATE TABLE** MAJOR (

Name VARCHAR(40) **NOT NULL,**

DeptName VARCHAR(40) **NOT NULL,**

**PRIMARY KEY** (Name),

**FOREIGN KEY (**DeptName**) REFERENCES** DEPARTMENT(Name),

);

**CREATE TABLE** DEPARTMENT (

Name VARCHAR(40) **NOT NULL,**

**PRIMARY KEY** (Name),

);

**CREATE TABLE** COURSE (

Name VARCHAR(40) **NOT NULL,**

CourseNumber VARCHAR(20) **NOT NULL,**

Instructor VARCHAR(40) **NOT NULL,**

EstimatedNumStudents INT **NOT NULL,**

DesignationName VARCHAR(25) **NOT NULL,**

**PRIMARY KEY** (Name),

**FOREIGN KEY (**DesignationName**) REFERENCES** DESIGNATION(Name)

);

**CREATE TABLE** APPLY (

ProjectName VARCHAR(40) **NOT NULL,**

StudentName VARCHAR(15) **NOT NULL,**

Date DATE,

Status VARCHAR(20) **NOT NULL,**

**PRIMARY KEY** (ProjectName, StudentName),

**FOREIGN KEY** (ProjectName) **REFERENCES** PROJECT(Name),

**FOREIGN KEY (**StudentName**) REFERENCES** USER(Username),

);

**CREATE TABLE** PROJECT\_IS\_CATEGORY (

ProjectName VARCHAR(40) **NOT NULL,**

CategoryName VARCHAR(40) **NOT NULL,**

**PRIMARY KEY** (ProjectName, CategoryName),

**FOREIGN KEY (**ProjectName**) REFERENCES** PROJECT(Name),

**FOREIGN KEY (**CategoryName**) REFERENCES** CATEGORY(Name)

);

**CREATE TABLE** COURSE\_IS\_CATEGORY (

CourseName VARCHAR(40) **NOT NULL,**

CategoryName VARCHAR(40) **NOT NULL,**

**PRIMARY KEY** (CourseName, CategoryName),

**FOREIGN KEY (**CourseName**) REFERENCES** COURSE(Name),

**FOREIGN KEY (**CategoryName**) REFERENCES** CATEGORY(Name)

);