**Create Table Statements**

CREATE TABLE Administrator (

GTID CHAR(9),

Password VARCHAR(30) NOT NULL,

PRIMARY KEY (GTID) );

CREATE TABLE Student (

GTID CHAR(9),

Password VARCHAR(30) NOT NULL,

Email VARCHAR(40) NOT NULL,

Name VARCHAR(100) NOT NULL,

PRIMARY KEY (GTID),

UNIQUE(Email) );

CREATE TABLE Graduate (

GTID CHAR(9),

Password VARCHAR(30) NOT NULL,

PRIMARY KEY (GTID),

FOREIGN KEY (GTID) REFERENCES Student (GTID) );

CREATE TABLE Undergraduate (

GTID CHAR(9),

Password VARCHAR(30) NOT NULL,

PRIMARY KEY (GTID),

FOREIGN KEY (GTID) REFERENCES Student (GTID) );

CREATE TABLE Tutor (

GTID CHAR(9),

Password VARCHAR(30) NOT NULL,

Phone CHAR(10),

GPA DECIMAL(3, 2) NOT NULL,

CHECK (GPA >= 3.00),

PRIMARY KEY (GTID) );

CREATE TABLE Course (

School VARCHAR (100),

Number INT,

PRIMARY KEY (School, Number) );

CREATE TABLE Professor (

GTID CHAR(9),

Password VARCHAR(30) NOT NULL,

PRIMARY KEY (GTID) );

CREATE TABLE TutorTimeSlot (

GTID CHAR(9),

Time VARCHAR(8),

Semester VARCHAR(6),

Weekday VARCHAR(10),

PRIMARY KEY (GTID, Time, Semester, Weekday),

FOREIGN KEY (GTID) REFERENCES Student (GTID) );

CREATE TABLE Recommends (

GTID\_Tutor CHAR(9),

GTID\_Professor CHAR (9),

Num\_Evaluation TINYINT,

Desc\_Evaluation VARCHAR(1000),

CHECK (Num\_Evaluation >= 1 AND Num\_Evaluation <= 4),

PRIMARY KEY (GTID\_Tutor, GTID\_Professor),

FOREIGN KEY (GTID\_Tutor) REFERENCES Tutor (GTID),

FOREIGN KEY (GTID\_Professor) REFERENCES Professor (GTID) );

CREATE TABLE Tutors (

GTID\_Tutor CHAR(9),

School VARCHAR(100),

Number INT,

GTA BOOLEAN,

PRIMARY KEY (GTID\_Tutor, School, Number),

FOREIGN KEY (GTID\_Tutor) REFERENCES Tutor (GTID),

FOREIGN KEY (School, Number) REFERENCES Course (School, Number) );

CREATE TABLE Rates (

GTID\_Undergraduate CHAR (9),

GTID\_Tutor CHAR (9),

School VARCHAR (100),

Number INT,

Num\_Evaluation TINYINT,

Desc\_Evaluation VARCHAR(1000),

CHECK (Num\_Evaluation >= 1 AND Num\_Evaluation <= 4),

PRIMARY KEY (GTID\_Undergraduate, GTID\_Tutor),

FOREIGN KEY (GTID\_Tutor) REFERENCES Tutor (GTID),

FOREIGN KEY (GTID\_Undergraduate) REFERENCES Undergraduate (GTID) );

CREATE TABLE Hires (

GTID\_Undergraduate CHAR (9),

GTID\_Tutor CHAR (9),

School VARCHAR (100),

Number INT,

Time VARCHAR(8),

Semester VARCHAR(6),

Weekday VARCHAR(10),

PRIMARY KEY (GTID\_Undergraduate, GTID\_Tutor, School, Number, Time, Semester,

Weekday),

FOREIGN KEY (GTID\_Undergraduate) REFERENCES Undergraduate (GTID),

FOREIGN KEY (GTID\_Tutor, School, Number) REFERENCES Tutors (GTID\_Tutor, School, Number),

FOREIGN KEY (GTID\_Tutor, Time, Semester, Weekday) REFERENCES Tutor\_Time\_Slot

(GTID, Time, Semester, Weekday) );