USE Academy

GO

CREATE TABLE Teachers (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

Name NVARCHAR(MAX) NOT NULL,

Surname NVARCHAR(MAX) NOT NULL

)

CREATE TABLE Curators (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

TeacherId INT NOT NULL FOREIGN KEY REFERENCES Teachers(Id)

)

CREATE TABLE Deans (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

TeacherId INT NOT NULL FOREIGN KEY REFERENCES Teachers(Id)

)

CREATE TABLE Faculties (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

Building INT CHECK (Building BETWEEN 1 AND 5) NOT NULL,

Name NVARCHAR(100) UNIQUE NOT NULL,

DeanId INT NOT NULL FOREIGN KEY REFERENCES Deans(Id)

)

CREATE TABLE Heads (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

TeacherId INT NOT NULL FOREIGN KEY REFERENCES Teachers(Id)

)

CREATE TABLE Departments (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

Building INT CHECK (Building BETWEEN 1 AND 5) NOT NULL,

Name NVARCHAR(100) UNIQUE NOT NULL,

FacultyId INT NOT NULL FOREIGN KEY REFERENCES Faculties(Id),

HeadId INT NOT NULL FOREIGN KEY REFERENCES Heads(Id)

)

CREATE TABLE Groups (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

Name NVARCHAR(10) UNIQUE NOT NULL,

Year INT CHECK (Year BETWEEN 1 AND 5) NOT NULL,

DepartmentId INT NOT NULL FOREIGN KEY REFERENCES Departments(Id)

)

CREATE TABLE GroupsCurators (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

CuratorId INT NOT NULL FOREIGN KEY REFERENCES Curators(Id),

GroupId INT NOT NULL FOREIGN KEY REFERENCES Groups(Id)

)

CREATE TABLE Assistants (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

TeacherId INT NOT NULL FOREIGN KEY REFERENCES Teachers(Id)

)

CREATE TABLE Subjects (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

Name NVARCHAR(100) UNIQUE NOT NULL

)

CREATE TABLE Lectures (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

SubjectId INT NOT NULL FOREIGN KEY REFERENCES Subjects(Id),

TeacherId INT NOT NULL FOREIGN KEY REFERENCES Teachers(Id)

)

CREATE TABLE GroupsLectures (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

GroupId INT NOT NULL FOREIGN KEY REFERENCES Groups(Id),

LectureId INT NOT NULL FOREIGN KEY REFERENCES Lectures(Id)

)

CREATE TABLE LectureRooms (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

Building INT CHECK (Building BETWEEN 1 AND 5) NOT NULL,

Name NVARCHAR(10) UNIQUE NOT NULL

)

CREATE TABLE Schedules (

Id INT IDENTITY(1,1) PRIMARY KEY NOT NULL,

Class INT CHECK (Class BETWEEN 1 AND 8) NOT NULL,

DayOfWeek INT CHECK (DayOfWeek BETWEEN 1 AND 7) NOT NULL,

Week INT CHECK (Week BETWEEN 1 AND 52) NOT NULL,

LectureId INT NOT NULL FOREIGN KEY REFERENCES Lectures(Id),

LectureRoomId INT NOT NULL FOREIGN KEY REFERENCES LectureRooms(Id)

)