ישויות ושדות:

סדר יצירת הטבלאות

cityTbl

statusTbl.

userTypeTbl

scholarship

eventTbl

bank

serviceTbl

studyFieldTbl

userTbl

loginAndPermissions

message

participantInEvent

contactStudentCandidate

studentScholarship

files

טבלת ערים:

CREATE TABLE cityTbl

(

sn int IDENTITY(1,1) PRIMARY KEY,

city nvarchar(300) not null

)

SET IDENTITY\_INSERT cityTbl ON;

INSERT into cityTbl (sn, city)

VALUES (2,N'אופקים');

SET IDENTITY\_INSERT cityTbl OFF;

טבלת סטטוס:

create table statusTbl(

numOfStatus int identity(1,1) primary key,

primaryStatusName nvarchar(100) not null,

secondaryStatusName nvarchar(100)

)

הכנסת ערכים:

insert into statusTbl(primaryStatusName,SecondaryStatusName) values(N'סטודנט',N'מלגאי ממשיך')

insert into statusTbl(primaryStatusName,SecondaryStatusName) values(N'סטודנט',N'מלגאי לשעבר')

insert into statusTbl(primaryStatusName,SecondaryStatusName) values(N'מועמד',N'מודע')

insert into statusTbl(primaryStatusName,SecondaryStatusName) values(N'מועמד',N'לא מודע ')

insert into statusTbl(primaryStatusName,SecondaryStatusName) values(N'בוגר',null)

טבלת סוג יוזר

create table userTypeTbl(

numOfType int identity(1,1) primary key,

userType nvarchar(300) not null

)

הכנסת ערכים לטבלה:

insert into userTypeTbl(userType) values(N'מנהל')

insert into userTypeTbl(numOfType,userType) values(2,N'עוזר מנהל')

insert into userTypeTbl(numOfType,userType) values(3,N'משתמש')

טבלת מלגה

בעיות: text data type not accept Hebrew

פתרון: הפכתי את הדטה טייפ לnvarchar(4000)

create table scholarship(

sn int identity(1,1) primary key,

scholarshipName nvarchar(200) not null,

budgetScholarship int,

admission nvarchar(4000),

status nvarchar(200) not null DEFAULT 'Active',

check(status in ('Active','Not Active'))

)

הכנסת ערכים לטבלה:

insert scholarship(scholarshipName,budgetScholarship,admission) values(N'קרן אלרוב ',20000,N'ממוצע תואר מעל 80')

טבלת אירוע

create table eventTbl(

sn int identity(1,1) PRIMARY KEY,

nameEvent nvarchar(300) not null,

subjectEvent nvarchar(300),

eventDate date,

eventHour time,

eventLocation nvarchar(500),

typeOfParticipants varchar(100) not null default 'students',

check(typeOfParticipants IN('students','candidates','graduates','everyone')),

numParticipantsExpected int,

numOfActualParticipants int

)

הכנסת ערכים לטבלה:

insert eventTbl(nameEvent,subjectEvent,eventDate,eventHour,eventLocation,numParticipantsExpected)

values(N'סדנה',N'סדנה לחיזוק העצמי','07-10-2018','12:00',N'תל אביב רחוב הארבעה 7',50)

טבלת בנק

create table bank

(

sn int identity(1,1) primary key,

name nvarchar(300) not null

)

טבלת שירות

create table serviceTbl (

sn int identity(1,1) primary key,

typeOfService nvarchar(200),

longOfService nvarchar(200)

)

הכנסת ערכים לטבלה:

insert serviceTbl(type,longOfService) values(N'צבאי',N'מלא')

insert serviceTbl(type,longOfService) values(N'צבאי',N'חלקי')

insert serviceTbl(type,longOfService) values(N'לאומי',N'מלא')

insert serviceTbl(type,longOfService) values(N'לאומי',N'חלקי')

insert serviceTbl(type,longOfService) values(N'בלי שירות',N'אין')

טבלת תחום לימודים

CREATE table studyFieldTbl(

sn int identity(1,1) primary key,

field nvarchar(4000),

nameOfDegree nvarchar(4000),

)

טבלת יוזר

CREATE table userTbl(

id char(9) primary key check(id like replicate('[0-9]',9)),

firstName nvarchar(50) not null,

lastName nvarchar(50) not null,

dateOfBirth date,

status int not null,

foreign key(status) references statusTbl(numOfStatus),

yearsInTheProgram int,

requestStatus char(1) CHECK(requestStatus in('Y','N','?',NULL)) ,

gender char(1) check(gender in('M','F')),

phone varchar(10) check(phone like replicate('[0-9]',10)),

email varchar(4000) check (email like '%\_@\_\_%.\_\_%'),

cityNumber int,

foreign key(cityNumber) references cityTbl(sn),

address nvarchar(4000),

numOfSiblings int,

academicParents int check(academicParents in(0,1,2)),

school nvarchar(4000),

yearFinishSchool int,

typeOfService int not null,

foreign key(typeOfService) REFERENCES serviceTbl(sn),

academicInstitution nvarchar(4000),

studyField int,

foreign key(studyField) references studyFieldTbl(sn),

startYear int,

excpectedCompletionYear int check(startYear<=excpectedCompletionYear),

learningDisabilities varchar(3) check(learningDisabilities in('Yes','No')),

psychometricGrade int,

anotherScholarship varchar(3) check(anotherScholarship in('Yes','No')),

educationFunding nvarchar(4000),

difficulties nvarchar(4000),

bankName int,

foreign key(bankName) REFERENCES bank(sn),

numOfBank int,

numAccount int,

CONSTRAINT check\_bank1\_nullness CHECK ((bankName is null and numOfBank is null) or (bankName is not null and numOfBank is not null)),

CONSTRAINT check\_bank2\_nullness CHECK ((numOfBank is null and numAccount is null) or (numOfBank is not null and numAccount is not null))

)

הכנסת ערכים לטבלת יוזר:

טבלת התחברות והרשאות

create table loginAndPermissions(

id char(9) primary key check(id like replicate('[0-9]',9)),

foreign key(id) references userTbl(id),

password varchar(10),

userType int not null,

foreign key(userType) references userTypeTbl(numOfType)

)

טבלת הודעות

create table messages(

sn int identity(1,1),

idSender char(9),

FOREIGN KEY(idSender) REFERENCES userTbl(id),

idReciever char(9) NOT NULL,

FOREIGN KEY(idReciever) REFERENCES userTbl(id),

subject nvarchar(max),

content nvarchar(max) not null,

hour time,

dateOfMessage date,

PRIMARY KEY(sn,idSender,idReciever)

)

טבלת משתתף באירוע

CREATE table participantInEvent

(

sn int,

FOREIGN KEY(sn) REFERENCES eventTbl(sn),

id char(9),

FOREIGN KEY(id) REFERENCES userTbl(id),

PRIMARY KEY(sn,id)

)

טבלת התקשרות סטודנט-מועמד:

create table contactStudentCandidate(

idStudent char(9),

FOREIGN KEY(idStudent) REFERENCES userTbl(id),

idCandidate char(9),

FOREIGN KEY(idCandidate) REFERENCES userTbl(id),

dateOfCall DATE,

updating nvarchar(max),

primary key(idStudent, idCandidate)

)

טבלת סטודנט במלגה:

create table studentScholarship(

id char(9) not null,

foreign key(id) REFERENCES userTbl(id),

sn int not null,

FOREIGN KEY(sn) REFERENCES scholarship(sn),

amountOfGivanScholarship int,

numOfDeposits int,

currentYear int,

wasGivenInPast char(1) not null,

numOfVolunteerHours int,

numOfHoursDone int,

primary key(id,sn)

)

טבלת קבצים:

CREATE TABLE files

(

nameOfFile nvarchar(500),

idOfTheUploader char(9),

foreign key(idOfTheUploader) references userTbl(id),

fileLocation text,

primary key(nameOfFile,idOfTheUploader)

)