Nicholas Lichtsinn

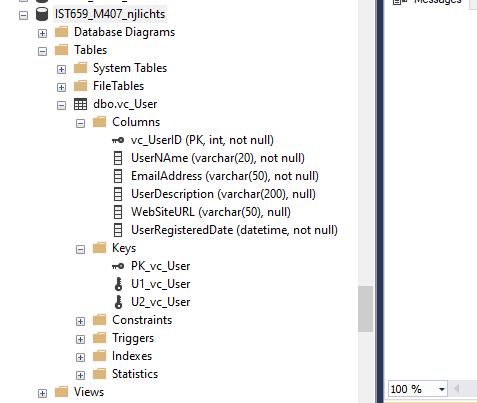
Week 5 Lab

5/05/2021

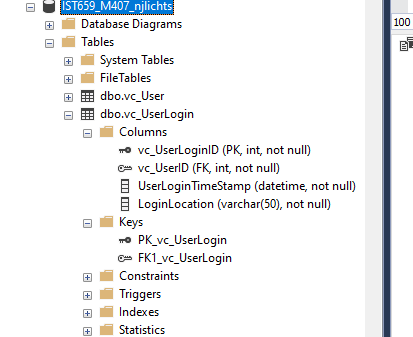
Physical Design and DDL

Part 1 - Creating Tables

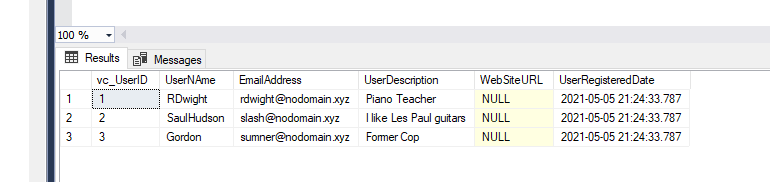
1. User Table



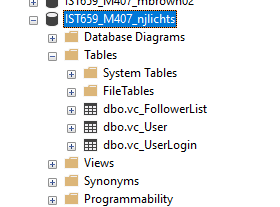
1. User Login Table



1. User Records

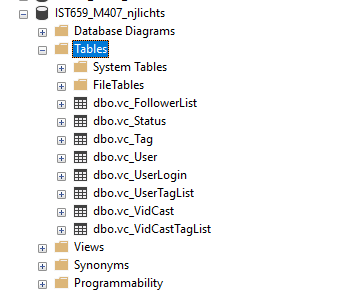


1. User Tables



Part 2 - The Rest of the Tables

1. VidCast Tables



1. SQL Code

/\*

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Course: IST659 M407

Term: April, 2021

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-- Creating the User Table

CREATE TABLE vc\_User (

-- Columns for the User Table

vc\_UserID int identity,

UserNAme varchar(20) not null,

EmailAddress varchar(50) not null,

UserDescription varchar(200),

WebSiteURL varchar(50),

UserRegisteredDate datetime not null default GetDate(),

-- Constraints on the User Table

CONSTRAINT PK\_vc\_User PRIMARY KEY (vc\_UserID),

CONSTRAINT U1\_vc\_User UNIQUE(UserName),

CONSTRAINT U2\_vc\_User UNIQUE(EmailAddress)

)

-- End Creating the User Table

-- Creating the User Login Table

CREATE TABLE vc\_UserLogin (

-- Columns for the User Login Table

vc\_UserLoginID int identity,

vc\_UserID int not null,

UserLoginTimeStamp datetime not null default GetDate(),

LoginLocation varchar(50) not null,

-- Constraints

CONSTRAINT PK\_vc\_UserLogin PRIMARY KEY (vc\_UserLoginID),

CONSTRAINT FK1\_vc\_UserLogin FOREIGN KEY (vc\_UserID) REFERENCES vc\_User(vc\_UserID)

)

-- Adding Data to the User Table

INSERT INTO vc\_User (UserName, EmailAddress, UserDescription)

VALUES

('RDwight', 'rdwight@nodomain.xyz', 'Piano Teacher'),

('SaulHudson', 'slash@nodomain.xyz', 'I like Les Paul guitars'),

('Gordon', 'sumner@nodomain.xyz', 'Former Cop')

SELECT \* FROM vc\_User

)

-- Creating the Follower List Table

CREATE TABLE vc\_FollowerList (

-- Columns for the Follower List Table

vc\_FollowerListID int identity,

FollowerID int not null,

FollowedID int not null,

FollowerSince datetime not null,

-- Constraints on the Follower List Table

CONSTRAINT PK\_vc\_FollowerList PRIMARY KEY (vc\_FollowerListID),

CONSTRAINT U1\_vc\_FollowerList UNIQUE (FollowerID, FollowedID),

CONSTRAINT FK1\_vc\_FollowerList FOREIGN KEY (FollowerID) REFERENCES vc\_User(vc\_UserID),

CONSTRAINT FK2\_vc\_FollowerList FOREIGN KEY (FollowedID) REFERENCES vc\_User(vc\_UserID)

)

-- End creating the Follower List Table

-- Creating the Tag Table

CREATE TABLE vc\_Tag (

vc\_TagID int identity,

TagText varchar(20) not null,

TagDescription varchar(100),

CONSTRAINT PK\_vc\_Tag PRIMARY KEY (vc\_TagID),

CONSTRAINT U1\_vc\_Tag UNIQUE (TagText)

)

-- Creating the Status Table

CREATE TABLE vc\_Status (

vc\_StatusID int identity,

StatusText varchar(20),

CONSTRAINT PK\_vc\_Status PRIMARY KEY (vc\_StatusID),

CONSTRAINT U1\_vc\_Statustext UNIQUE (StatusText)

)

-- Creating the VidCast table

CREATE TABLE vc\_VidCast (

vc\_VidCastID int identity,

VidCastTitle varchar(50) not null,

StartDateTime datetime,

EndDateTime datetime,

ScheduledDurationMinutes int,

RecordingURL varchar(50),

vc\_UserID int not null,

vc\_StatusID int not null,

CONSTRAINT PK\_vc\_VidCast PRIMARY KEY (vc\_VidCastID),

CONSTRAINT FK1\_vc\_VidCast FOREIGN KEY (vc\_UserID) REFERENCES vc\_User(vc\_UserID),

CONSTRAINT FK2\_vc\_VidCast FOREIGN KEY (vc\_StatusID) REFERENCES vc\_Status(vc\_StatusID)

)

-- Creating the VidCast Tag List Table

CREATE TABLE vc\_VidCastTagList (

vc\_VidCastTagListID int identity,

vc\_TagID int not null,

vc\_VidCastID int not null,

CONSTRAINT PK\_vc\_VidCastTagList PRIMARY KEY (vc\_VidCastTagListID),

CONSTRAINT U1\_vc\_VidCastTagList UNIQUE (vc\_TagID, vc\_VidCastID),

CONSTRAINT FK1\_vc\_VidCastTagList FOREIGN KEY (vc\_TagID) REFERENCES vc\_Tag(vc\_TagID),

CONSTRAINT FK2\_vc\_VidCastTagList FOREIGN KEY (vc\_VidCastID) REFERENCES vc\_VidCast(vc\_VidCastID)

)

-- Creating the User Tag List Table

CREATE TABLE vc\_UserTagList (

vc\_UserTagListID int identity,

vc\_TagID int not null,

vc\_UserID int not null,

CONSTRAINT PK\_vc\_UserTagList PRIMARY KEY (vc\_UserTagListID),

CONSTRAINT U1\_vc\_UserTagList UNIQUE (vc\_TagID, vc\_UserID),

CONSTRAINT FK1\_vc\_UserTagList FOREIGN KEY (vc\_TagID) REFERENCES vc\_Tag(vc\_TagID),

CONSTRAINT FK2\_vc\_UserTagList FOREIGN KEY (vc\_UserID) REFERENCES vc\_User(vc\_UserID)

)