Backup queries:

ALTER TABLE MasterTable

ADD CONSTRAINT fk\_xyz

FOREIGN KEY (xyz) REFERENCES ChildTable (xyz) ON DELETE CASCADE

Queries:

CREATE TABLE USERS

(

UserID INT IDENTITY(1, 1) PRIMARY KEY,

UserPassword VARCHAR(20) NOT NULL,

UserName VARCHAR(30) NOT NULL UNIQUE,

RealUserName VARCHAR(50) NOT NULL,

ProfilePicture VARBINARY(MAX) NULL,

TagLine VARCHAR(200) NULL

)

CREATE TABLE POST

(

PostID INT IDENTITY( 1 , 1) PRIMARY KEY,

UserID INT FOREIGN KEY REFERENCES USERS (UserID),

PostDesc VARCHAR(255),

BookMarked BIT NOT NULL,

Likes INT NOT NULL DEFAULT 0,

Location VARCHAR(30),

Image VARBINARY(MAX),

Video VARBINARY(MAX),

TimeLine TIMESTAMP NOT NULL

)

---- Below can’t be used right away, needs some research

CREATE VIEW SEARCH

AS

SELECT [UserID], [UserName], [RealUserName]

FROM [USERS]

WHERE [UserName] = ???? OR [UserName] = ????

ORDERBY [USERID]

CREATE TABLE STORY

(

StoryID INT IDENTITY(1,1) PRIMARY KEY,

Image VARBINARY(MAX),

Video VARBINARY(MAX),

PublishDate TIMESTAMP NOT NULL,

);

CREATE TABLE COMMENT

(

CommentID INT IDENTITY(1,1) PRIMARY KEY,

PostID INT FOREIGN KEY REFERENCES POST (PostID),

UserID INT FOREIGN KEY REFERENCES USERS (UserID)

);

CREATE TABLE CHAT

(

ChatID INT IDENTITY(1,1) PRIMARY KEY,

UserID INT FOREIGN KEY REFERENCES USERS(UserID),

ChatData VARCHAR(255)

);

CREATE TABLE Message

(

MessageID INT IDENTITY(1,1) PRIMARY KEY,

ChatID INT FOREIGN KEY REFERENCES CHAT(ChatID),

MessageText VARCHAR(255) NOT NULL,

);

CREATE TABLE FOLLOWER

(

FollowerID INT IDENTITY(1,1) PRIMARY KEY,

UserID INT FOREIGN KEY REFERENCES USERS(UserID)

);

CREATE TABLE FOLLOWING

(

FollowingID INT IDENTITY(1,1) PRIMARY KEY,

UserID INT FOREIGN KEY REFERENCES USERS(UserID)

);

--- NO NEED FOR CHAT SECTION

CREATE TABLE USER\_LIKE

(

LikeID INT IDENTITY(1,1) PRIMARY KEY,

PostID INT FOREIGN KEY REFERENCES POST(PostID),

UserID INT FOREIGN KEY REFERENCES USERS(UserID),

);

--- Problem with the implementation of like feed need to discuss further

CREATE VIEW LIKE\_FEED

AS

SELECT [PostID]

FROM USER\_LIKE AS UL

INNER JOIN POST AS P

ON P.UserID = UL.UserID AND P.PostID = UL.PostID

CREATE VIEW BOOKMARKS

AS

SELECT [UserID], [PostID]

FROM POST

WHERE BookMarked = 1

--- Currently not considering to make a database table for signup/login as we just simply

Need to add the user or login with the user which can be done directly with the user table and from program directly

CREATE PROCEDURE Add\_User

@UserName VARCHAR(20),

@RealUserName VARCHAR(30),

@UserPassword VARCHAR(20),

@Picture VARBINARY(MAX) = NULL,

@Tagline VARCHAR(200) = NULL

AS

if (@Picture IS NULL)

BEGIN

INSERT INTO USERS(UserName, RealUserName, UserPassword, TagLine) VALUES(@UserName, @RealUserName, @UserPassword, @Tagline)

END

if (@Tagline IS NULL)

BEGIN

INSERT INTO USERS(UserName, RealUserName, UserPassword, ProfilePicture) VALUES(@UserName, @RealUserName, @UserPassword, @Picture)

END

CREATE FUNCTION Check\_UserName\_And\_Password(

@UserName VARCHAR(20),

@Password VARCHAR(20)

)

RETURNS bit

AS

BEGIN

RETURN

(

SELECT ISNULL

(

(

SELECT 1

From USERS

WHERE UserName = @UserName AND UserPassword = @Password

), 0

)

)

END

CREATE FUNCTION Check\_UserName(

@UserName VARCHAR(20)

)

RETURNS bit

AS

BEGIN

RETURN

(

SELECT ISNULL

(

(

SELECT 1

From USERS

WHERE UserName = @UserName

), 0

)

)

END

CREATE FUNCTION Check\_Password(

@Password VARCHAR(20)

)

RETURNS bit

AS

BEGIN

RETURN

(

SELECT ISNULL

(

(

SELECT 1

From USERS

WHERE UserPassword = @Password

), 0

)

)

END

CREATE FUNCTION Check\_Password(

@UserName VARCHAR(20),

@Password VARCHAR(20)

)

RETURNS bit

AS

BEGIN

RETURN

(

SELECT ISNULL

(

(

SELECT 1

From USERS

WHERE UserName = @UserName AND UserPassword = @Password

), 0

)

)

END

CREATE PROCEDURE Build\_User\_Posts\_Table

@UserID VARCHAR(MAX),

@UserName VARCHAR(MAX)

AS

DECLARE @SQLCmd VARCHAR(MAX)

DECLARE @TableName VARCHAR(MAX)

SET @TableName = @UserName + '\_' + @UserID + '\_PostTable'

SET @SQLCmd = 'CREATE TABLE '+ @TableName + ' (PostID INT IDENTITY( 1 , 1) PRIMARY KEY, PostDesc VARCHAR(255), BookMarked BIT NOT NULL,Likes INT NOT NULL DEFAULT 0, Location VARCHAR(30), Image VARBINARY(MAX), Video VARBINARY(MAX), TimeLine TIMESTAMP DEFAULT GETDATE()'

IF NOT EXISTS (SELECT \* FROM INFORMATION\_SCHEMA.TABLES WHERE TABLE\_NAME = @TableName)

BEGIN

EXEC (@SQLCmd)

END

GO

**CREATE PROCEDURE Add\_Post**

**(**

**@UserName VARCHAR(20),**

**@UserID VARCHAR(20),**

**@PostDesc VARCHAR(MAX),**

**@Location VARCHAR(MAX),**

**@Image VARBINARY NULL**

**)**

**AS**

**DECLARE @SQLCmd VARCHAR(MAX)**

**DECLARE @TimeLine VARCHAR(MAX)**

**DECLARE @BookMarked BIT,**

**IF @PostDesc IS NULL**

**BEGIN**

**SET @PostDesc = '';**

**END**

**IF @Location IS NULL**

**BEGIN**

**SET @Location = '';**

**END**

**SET @BookMarked = 0;**

**SET @TimeLine = CONVERT(VARCHAR(255), GETDATE());**

**SET @SQLCmd = 'INSERT INTO ' + @UserName + '\_' + @UserID + '\_POSTTable' + '( PostDesc, BookMarked, Location, Likes, Image, TimeLine) VALUES( ' + @PostDesc + ',' + CONVERT(VARCHAR(2), @BookMarked) + ',' + @Location + ', 0,' + CONVERT(VARCHAR(MAX), @Image) + ',' + CONVERT(VARCHAR(MAX), @TimeLine) + ')'**

**EXECUTE (@SQLCmd)**

**GO**

CREATE PROCEDURE Build\_User\_Stories\_Table

@UserID VARCHAR(MAX),

@UserName VARCHAR(MAX)

AS

DECLARE @SQLCmd VARCHAR(MAX)

DECLARE @TableName VARCHAR(MAX)

SET @TableName = @UserName + '\_' + @UserID + '\_StoryTable'

SET @SQLCmd = 'CREATE TABLE '+ @TableName + ' (StoryID INT IDENTITY( 1 , 1) PRIMARY KEY, Image VARBINARY(MAX), Video VARBINARY(MAX), PostTime datetime DEFAULT CURRENT\_TIMESTAMP, DueDate datetime NOT NULL)'

IF NOT EXISTS (SELECT \* FROM INFORMATION\_SCHEMA.TABLES WHERE TABLE\_NAME = @TableName)

BEGIN

EXEC (@SQLCmd)

END

CREATE PROCEDURE Delete\_Post(

@PostID INT,

@UserID INT,

@UserName VARCHAR(MAX)

)

AS

DECLARE @SQLCmd VARCHAR(MAX)

SET @SQLCmd = 'DELETE FROM ' + @UserName + '\_' + @UserID + '\_PostTable' +'WHERE PostID = ' + @PostID

EXECUTE @SQLCmd

GO

CREATE PROCEDURE Delete\_Story(

@StoryID INT,

@UserID INT,

@UserName VARCHAR(MAX)

)

AS

DECLARE @SQLCmd VARCHAR(MAX)

SET @SQLCmd = 'DELETE FROM ' + @UserName + '\_' + @UserID + '\_StoryTable' +'WHERE StoryID = ' + @StoryID

EXECUTE @SQLCmd

GO