CREATE DATABASE FoodRecipe;

GO

USE FoodRecipe;

GO

CREATE TABLE Recipes

(

RecipeID INT IDENTITY(1,1) PRIMARY KEY,

DishName VARCHAR(255),

TotalCookingTime INT,

Description VARCHAR(255),

Rating VARCHAR(10)

CategoryID INT FOREIGN KEY REFERENCES Categories(CategoryID),

UserID INT FOREIGN KEY REFERENCES Users(UserID),

CONSTRAINT CHK\_Recipes\_Rating CHECK (Rating IN ('good', 'bad', 'decent', 'excellent'))

);

CREATE TABLE Ingredients

(

IngredientID INT IDENTITY (1,1) PRIMARY KEY,

IngredientName VARCHAR(255),

);

CREATE TABLE Instructions

(

InstructionID INT IDENTITY(1,1) PRIMARY KEY,

RecipeID INT FOREIGN KEY REFERENCES Recipes(RecipeID),

StepNumber INT,

InstructionDescription VARCHAR(MAX)

);

CREATE TABLE CookingHardware

(

HardwareID INT IDENTITY(1,1) PRIMARY KEY,

RecipeID INT FOREIGN KEY REFERENCES Recipes(RecipeID),

HardwareName VARCHAR(255)

);

CREATE TABLE Images

(

ImageID INT IDENTITY(1,1) PRIMARY KEY,

RecipeID INT FOREIGN KEY REFERENCES Recipes(RecipeID),

ImageURL VARCHAR(255)

);

CREATE TABLE Categories

(

CategoryID INT IDENTITY(1,1) PRIMARY KEY,

CategoryName VARCHAR(255)

);

CREATE TABLE RecipeIngredients

(

RecipeID INT,

IngredientID INT,

Quantity VARCHAR(255),

MeasurementUnit VARCHAR(255),

PRIMARY KEY (RecipeID, IngredientID),

FOREIGN KEY (RecipeID) REFERENCES Recipes(RecipeID),

FOREIGN KEY (IngredientID) REFERENCES Ingredients(IngredientID)

);

CREATE TABLE Users

(

UserID INT IDENTITY(1,1) PRIMARY KEY,

Username VARCHAR(50),

Password VARCHAR(100),

DateOfBirth DATE,

email VARCHAR(255),

UserRole VARCHAR(20) CHECK (UserRole IN ('admin', 'contributor'))

);

ALTER TABLE Recipes

ADD

CategoryID INT FOREIGN KEY REFERENCES Categories(CategoryID),

UserID INT FOREIGN KEY REFERENCES Users(UserID);