Eugene Borts

Applied Database 2

Dr. Eaglin

Assignment 3

Contents

Create Tables

```
USE MenuDB
GO

CREATE TABLE Menu
(
MenuID int primary key identity (1,1),
MenuTitle varchar(200) null,
MenuDescriptionText varchar(255) null,
)

CREATE TABLE MenuGroup
(
MenuGroupID int primary key identity (1,1),
MenuID int,
MenuGroupText varchar(200) null,
MenuGroupDescriptionText varchar(255) null,
)

CREATE TABLE MenuItem
 (
 MenuItemID int primary key identity (1,1),
 MenuID int,
 MenuGroupID int null,
 MenuItemCallNumber varchar(50) null,
 MenuItemTitle varchar(200) null,
 MenuItemDescriptionText varchar(255) null,
 MenuItemNutritionText varchar(255) null,
 MenuItemIngredientsText varchar(255) null,
 MenuItemQuantity varchar(50) null,
```

```
MenuItemPreparationTime varchar(50) null,
MenuItmeCost varchar(50) null,
MenuItemTypeCode varchar(50) null,
MenuItemEthnicTypeCode varchar(50) null,
MenuItemAvailabilityBit varchar(50) null,
)
```

Add Constraints

```
ALTER TABLE [dbo].[MenuGroup]  WITH CHECK ADD  CONSTRAINT [FK_MenuGroup_Menu] FOREIGN
KEY([MenuID])
REFERENCES [dbo].[Menu] ([MenuID])
GO
ALTER TABLE [dbo].[MenuGroup] CHECK CONSTRAINT [FK_MenuGroup_Menu]
GO
ALTER TABLE [dbo].[MenuItem]  WITH CHECK ADD  CONSTRAINT [FK_MenuItem_Menu] FOREIGN
KEY([MenuID])
REFERENCES [dbo].[Menu] ([MenuID])
GO
ALTER TABLE [dbo].[MenuItem] CHECK CONSTRAINT [FK_MenuItem_Menu]
GO
ALTER TABLE [dbo].[MenuItem]  WITH CHECK ADD  CONSTRAINT [FK_MenuItem_MenuGroup] FOREIGN
KEY([MenuGroupID])
REFERENCES [dbo].[MenuGroup] ([MenuGroupID])
GO
ALTER TABLE [dbo].[MenuItem] CHECK CONSTRAINT [FK_MenuItem_MenuGroup]
GO
```

Create Stored Procedure

```
USE MenuDB
GO

CREATE PROCEDURE [dbo].[stp_InsertNewMenuItem]
(
    @MenuItemTitle VARCHAR(200),
    @MenuGroupText VARCHAR(200),
    @MenuTitle VARCHAR(200)
)

AS
BEGIN

    BEGIN TRANSACTION

    BEGIN TRY

    DECLARE @MenuID INT
    SELECT @MenuID = MenuID
    FROM Menu
    WHERE MenuTitle = @MenuTitle
```

```sql
    IF @MenuID IS NULL
    BEGIN
        INSERT INTO Menu(MenuTitle)
        VALUES (@MenuTitle)
        SET @MenuID = SCOPE_IDENTITY()
    END

    DECLARE @MenuGroupID INT
    SELECT @MenuGroupID = MenuGroupID
    FROM MenuGroup
    WHERE MenuGroupText = @MenuGroupText

    IF @MenuGroupID IS NULL
    BEGIN
        INSERT INTO MenuGroup(MenuID, MenuGroupText)
        VALUES (@MenuID, @MenuGroupText)
        SET @MenuGroupID = SCOPE_IDENTITY()
    END

    INSERT INTO MenuItem (MenuID, MenuGroupID, MenuItemTitle)
    VALUES (@MenuID, @MenuGroupID, @MenuItemTitle)

    COMMIT TRANSACTION

    END TRY
    BEGIN CATCH
        IF @@TRANCOUNT > 0
            ROLLBACK TRANSACTION
    END CATCH
END
GO
```

Execute Stored Procedure

Execute Procedure - [dbo].[stp_InsertNewMenuItem]

Select a page
- General

Script ▼ ❓ Help

Parameter	Data Type	Output Parameter	Pass Null Value	Value
@MenuItemTitle	varchar(200)	No	☐	bigburger
@MenuGroup...	varchar(200)	No	☐	burgers
@MenuTitle	varchar(200)	No	☐	fastburgers

Connection

Server:
LAPTOP-N4N80KJ6

Connection:
LAPTOP-N4N80KJ6\Yevge

🔌 View connection properties

Progress

Ready

OK   Cancel

Stored Procedure - MenuID

```
/****** Script for SelectTopNRows command from SSMS  ******
SELECT TOP (1000) [MenuID]
      ,[MenuTitle]
      ,[MenuDescriptionText]
  FROM [MenuDB].[dbo].[Menu]
```

100 % ▾ ◂

⊞ Results ⬚ Messages

	MenuID	MenuTitle	MenuDescriptionText
1	1	fastburgers	NULL

Stored Procedure - MenuGroup

```
/****** Script for SelectTopNRows command from SSMS  ******/
SELECT TOP (1000) [MenuGroupID]
      ,[MenuID]
      ,[MenuGroupText]
      ,[MenuGroupDescriptionText]
  FROM [MenuDB].[dbo].[Menugroup]
```

100 % ▾ ◂

⊞ Results ⬚ Messages

	MenuGroupID	MenuID	MenuGroupText	MenuGroupDescriptionText
1	1	1	burgers	NULL

Stored Procedure - MenuItem

```
/****** Script for SelectTopNRows command from SSMS ******/
SELECT TOP (1000) [MenuItemID]
      ,[MenuID]
      ,[MenuGroupID]
      ,[MenuItemCallNumber]
      ,[MenuItemTitle]
      ,[MenuItemDescriptionText]
      ,[MenuItemNutritionText]
      ,[MenuItemIngredientsText]
      ,[MenuItemQuantity]
      ,[MenuItemPreparationTime]
      ,[MenuItmeCost]
      ,[MenuItemTypeCode]
      ,[MenuItemEthnicTypeCode]
      ,[MenuItemAvailabilityBit]
  FROM [MenuDB].[dbo].[MenuItem]
```

100 %

Results | Messages

	MenuItemID	MenuID	MenuGroupID	MenuItemCallNumber	MenuItemTitle	MenuItemDescriptionText	MenuItemNutritionText	MenuItemIngredie
1	1	1	1	NULL	bigburger	NULL	NULL	NULL

Database Diagram

Menu

🔑	MenuID
	MenuTitle
	MenuDescritpionText

MenuGroup

🔑	MenuGroupID
	MenuID
	MenuGroupText
	MenuGroupDescriptionText

MenuItem

🔑	MenuItemID
	MenuID
	MenuGroupID
	MenuItemCallNumber
	MenuItemTitle
	MenuItemDescriptionText
	MenuItemNutritionText
	MenuItemIngredientsText
	MenuItemQuantity
	MenuItemPreparationTime
	MenuItemCost
	MenuItemTypeCode
	MenuItemEthnicTypeCode
	MenuItemAvailabilityBit