Eugene Borts

Applied Database 2

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Assignment 3

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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,
```

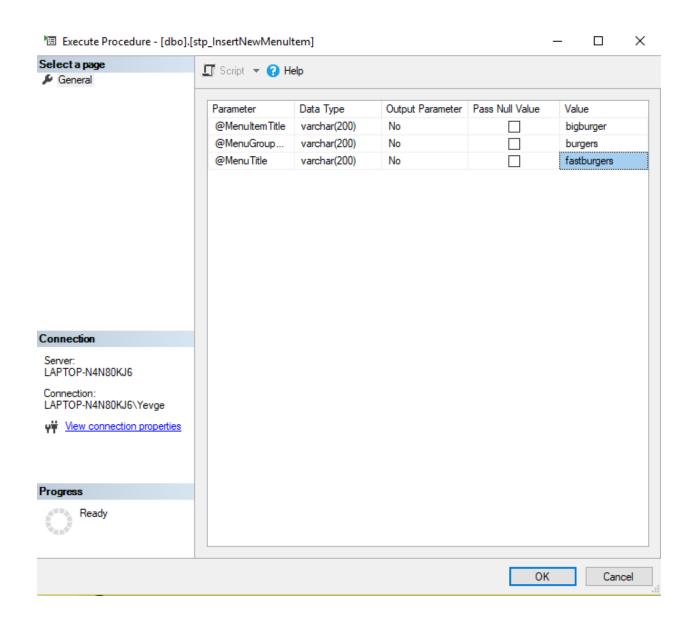
Add Constraints

```
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].[MenuGroup] ([MenuGroupID])
GO
ALTER TABLE [dbo].[MenuItem] CHECK CONSTRAINT [FK_MenuItem_MenuGroup]
GO
ALTER TABLE [dbo].[MenuItem] CHECK CONSTRAINT [FK_MenuItem_MenuGroup]
```

Create Stored Procedure

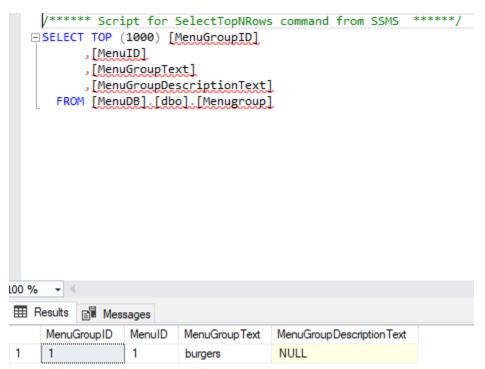
```
IF @MenuID IS NULL
    BEGIN
        INSERT INTO Menu(MenuTitle)
        VALUES (@MenuTitle)
        SET @MenuID = SCOPE_IDENTITY()
    END
    DECLARE @MenuGroupID INT
    SELECT @MenuGroupID = MenuGroupID
    FROM MenuGroup
    WHERE MenuGroupText = @MenuGroupText
    IF @MenuGroupID IS NULL
    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

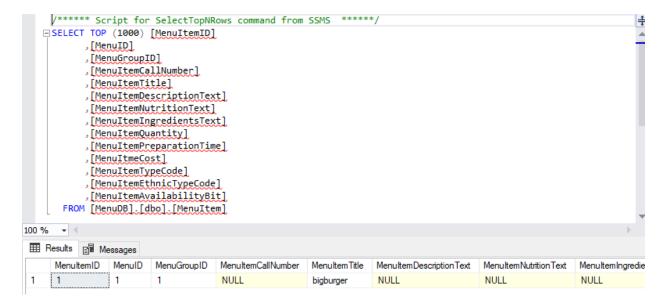


Stored Procedure - MenuID

Stored Procedure - MenuGroup



Stored Procedure - Menultem



Database Diagram

