

Eugene Borts

Applied Database II

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Assignment 4

Table Function - func_GetMenuItemsForMenu

```
CREATE FUNCTION dbo.func_GetMenuItemsForMenu
(@MenuItemID NVARCHAR(200))
)
RETURNS TABLE
AS RETURN (
    SELECT
        Menu.MenuID,
        MenuItem.MenuItemTitle
    FROM Menu
    INNER JOIN
        MenuItem ON
        MenuItem.MenuID = Menu.MenuID
    WHERE
        MenuItem.MenuID LIKE @MenuItemID + '%'
GO
```

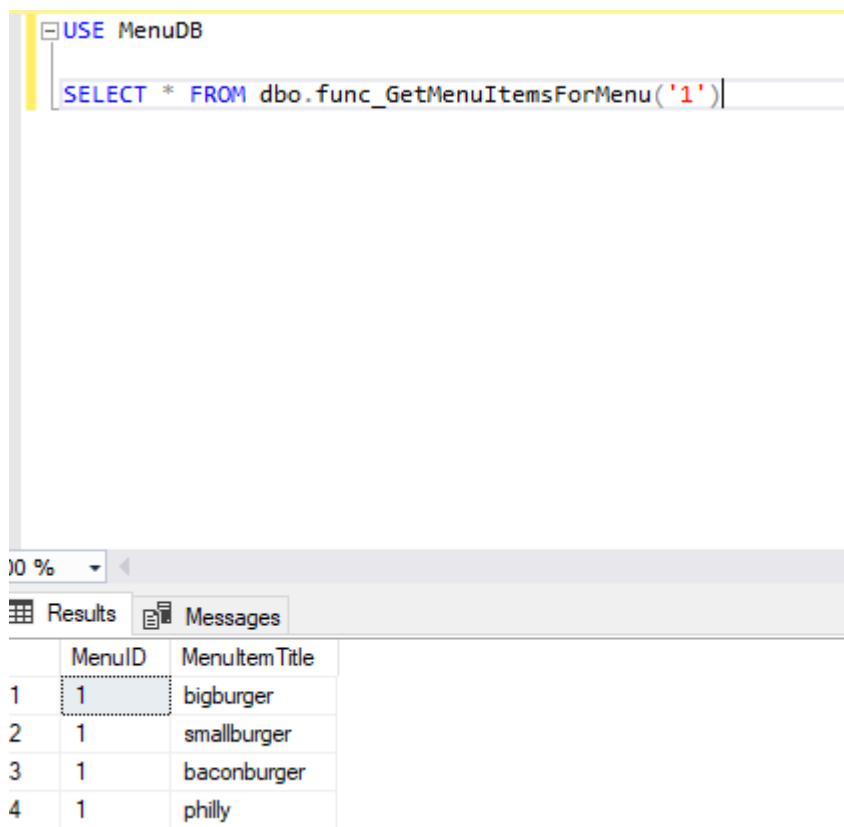
Scalar Function – func_GetMenuItemDescriptionForMenuItemID

```
CREATE FUNCTION dbo.func_GetMenuItemDescriptionForMenuItemID
(
    @MenuItemID nvarchar (200)
)
RETURNS nvarchar (200)
AS
BEGIN
    RETURN
        (SELECT MenuItemDescriptionText
         FROM MenuItem
         WHERE MenuItemID = @MenuItemID)
END
```

Select Statement for func_GetMenuItemsForMenu

```
USE MenuDB  
  
SELECT * FROM dbo.func_GetMenuItemsForMenu('1')
```

Table Function - Screenshot of Query and Results



The screenshot shows a SQL Server Enterprise Manager interface. At the top, a query window displays the following SQL code:

```
USE MenuDB  
  
SELECT * FROM dbo.func_GetMenuItemsForMenu('1')
```

Below the query window, the 'Results' tab is active, displaying a table with the following data:

	MenuID	MenuItem Title
1	1	bigburger
2	1	smallburger
3	1	baconburger
4	1	philly

Select Statements for func_GetMenuItemDescriptionForMenuItemID

Note: Each SELECT statement displays one item description specified by ItemID.

```
USE MenuDB
```

```
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('1') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('2') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('3') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('4') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('5') as "Item Description"
```

Scalar Function - Screenshot of Query and Results

```
USE MenuDB
```

```
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('1') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('2') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('3') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('4') as "Item Description"  
SELECT dbo.func_GetMenuItemDescriptionForMenuItemID('5') as "Item Description"
```

Results		Messages
Item Description		
Giant Burger 1lb Patty		
Item Description		
Small Burger 1/4lb Patty		
Item Description		
1/2lb Patty with Bacon		
Item Description		
Philly Cheese Steak Sandwich		
Item Description		
French Fries		