

Mssql

User defined table type

▶ Run ☐ Cancel Disconnect Change

Database: DBExam ▼

```
1 CREATE TYPE [dbo].[OrderLinesType] AS TABLE(  
2     [productID] [int] NULL,  
3     [productName] [varchar](100) NULL,  
4     [quantity] [int] NULL,  
5     [price] [decimal](10, 2) NULL  
6 )  
7 GO
```

Stored Procedure

▶ Run ☐ Cancel Disconnect Change

Database: DBExam ▼

Estimated Plan Enable Actual Plan ☒ Parse Enable SQLCMD To Notebook

```
1 SET ANSI_NULLS ON  
2 GO  
3 SET QUOTED_IDENTIFIER ON  
4 GO  
5 ALTER PROCEDURE [dbo].[InsertOrderWithOrderLines]  
6     @userID int,  
7     @orderLines OrderLinesType READONLY  
8 as  
9  
10 DECLARE @totalPrice FLOAT  
11  
12 BEGIN  
13     SET NOCOUNT ON;  
14     BEGIN TRY  
15         DECLARE @orderId int;  
16  
17         BEGIN TRAN  
18  
19         -- Insert a new order and retrieve the generated order ID  
20         INSERT INTO Orders (UserID, OrderDate, Amount) VALUES (@userID, GETDATE(), 00.00);  
21         SET @orderId = SCOPE_IDENTITY();  
22  
23         -- Insert order lines using the generated order ID  
24         INSERT INTO OrderLines (OrderID, ProductID, ProductName, Quantity, Price)  
25         SELECT @orderId, ProductID, ProductName, Quantity, Price  
26         FROM @orderLines  
27  
28         -- Update TotalPrice based on orderlines pricings  
29         SET @totalPrice = (SELECT SUM(Price) FROM OrderLines WHERE OrderID = @orderId);  
30  
31         UPDATE Orders  
32         SET Amount = @totalPrice  
33         WHERE OrderID = @orderId;  
34  
35         COMMIT  
36  
37     END TRY  
38  
39     BEGIN CATCH  
40  
41         ROLLBACK;  
42  
43         THROW;  
44  
45     END CATCH;  
46  
47 END  
48 GO
```