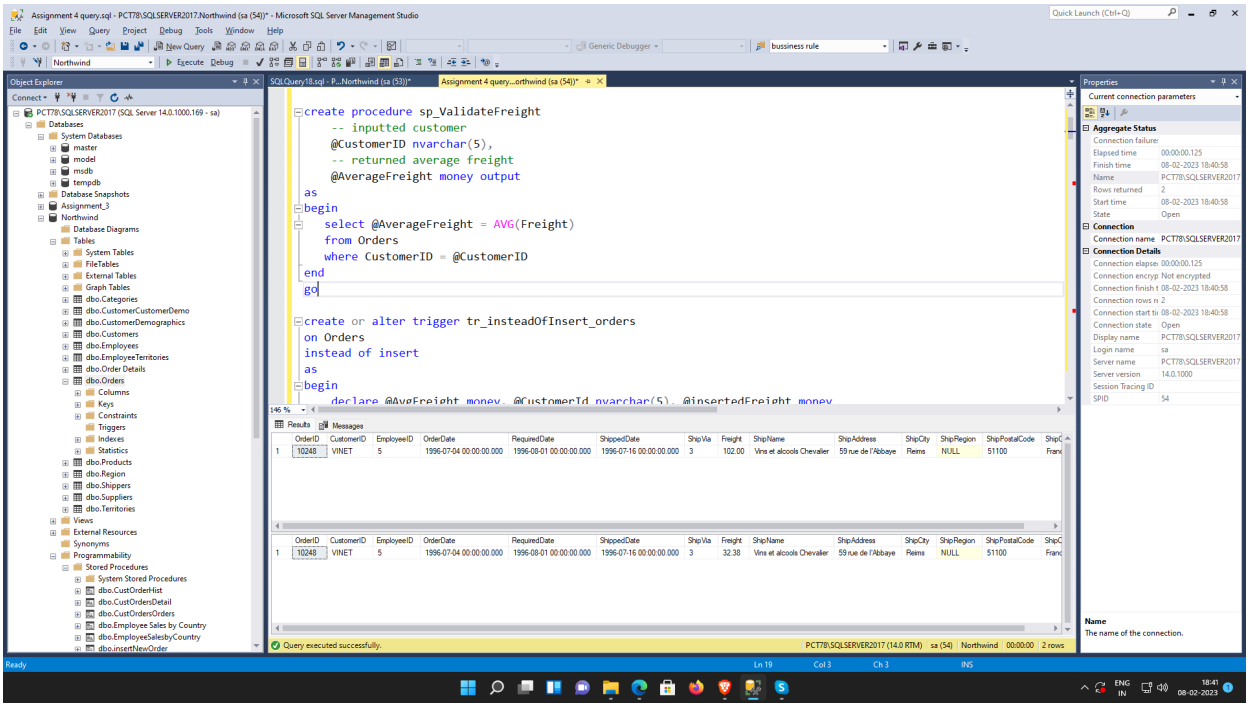
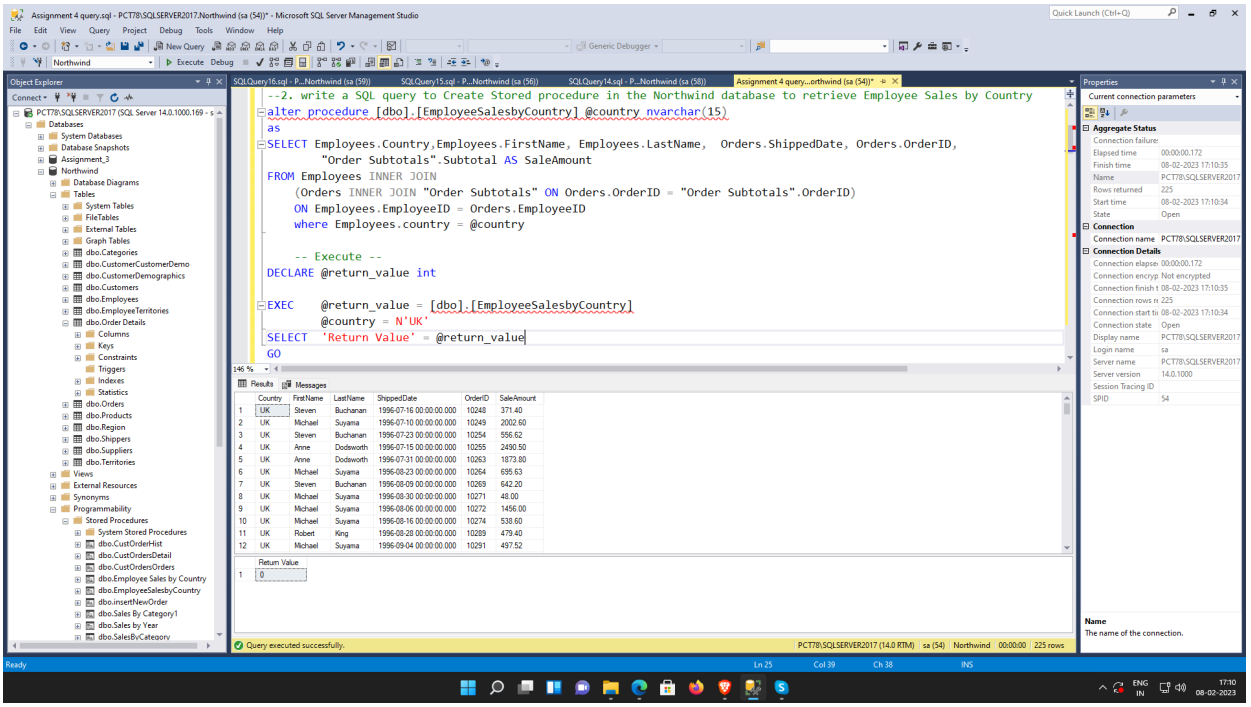
--1. Create a stored procedure in the Northwind database that will calculate the average value of Freight for a specified customer.Then, a business rule will be added that will be triggered before every Update and Insert command in the Orders controller,and will use the stored procedure to verify that the Freight does not exceed the average freight. If it does, a message will be displayed and the command will be cancelled.



```
create procedure sp_ValidateFreight
    -- inputted customer
    @CustomerID nvarchar(5),
    -- returned average freight
    @AverageFreight money output
as
begin
   select @AverageFreight = AVG(Freight)
   from Orders
   where CustomerID = @CustomerID
end
go

create or alter trigger tr_insteadOfInsert_orders
on Orders
instead of insert
as
begin
    declare @AvgFreight money, @CustomerId nvarchar(5), @insertedFreight money
```

--2. write a SQL query to Create Stored procedure in the Northwind database to retrieve Employee Sales by Country

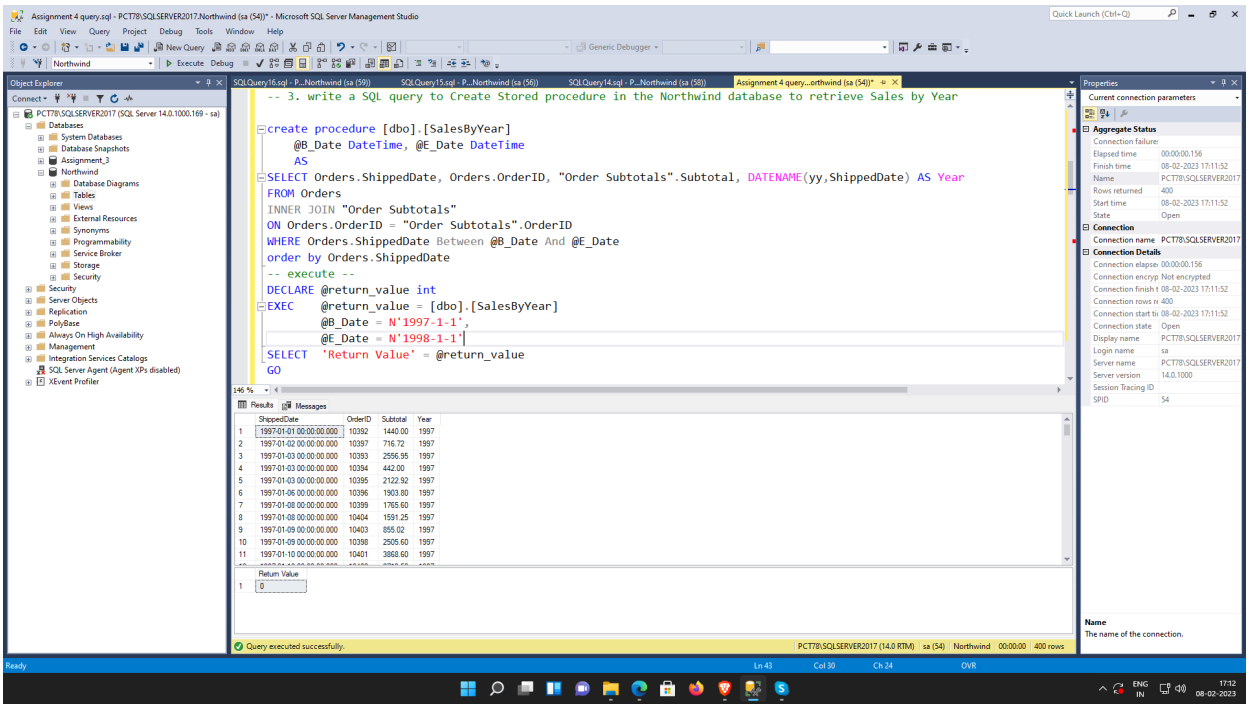


```
--2. write a SQL query to Create Stored procedure in the Northwind database to retrieve Employee Sales by Country
alter procedure [dbo].[EmployeeSalesbyCountry] @country nvarchar(15)
as
SELECT Employees.Country,Employees.FirstName, Employees.LastName,  Orders.ShippedDate, Orders.OrderID,
        "Order Subtotals".Subtotal AS SaleAmount
FROM Employees INNER JOIN
    (Orders INNER JOIN "Order Subtotals" ON Orders.OrderID = "Order Subtotals".OrderID)
    ON Employees.EmployeeID = Orders.EmployeeID
    where Employees.country = @country

    -- Execute --
DECLARE @return_value int

EXEC    @return_value = [dbo].[EmployeeSalesbyCountry]
        @country = N'UK'
SELECT  'Return Value' = @return_value
GO
```

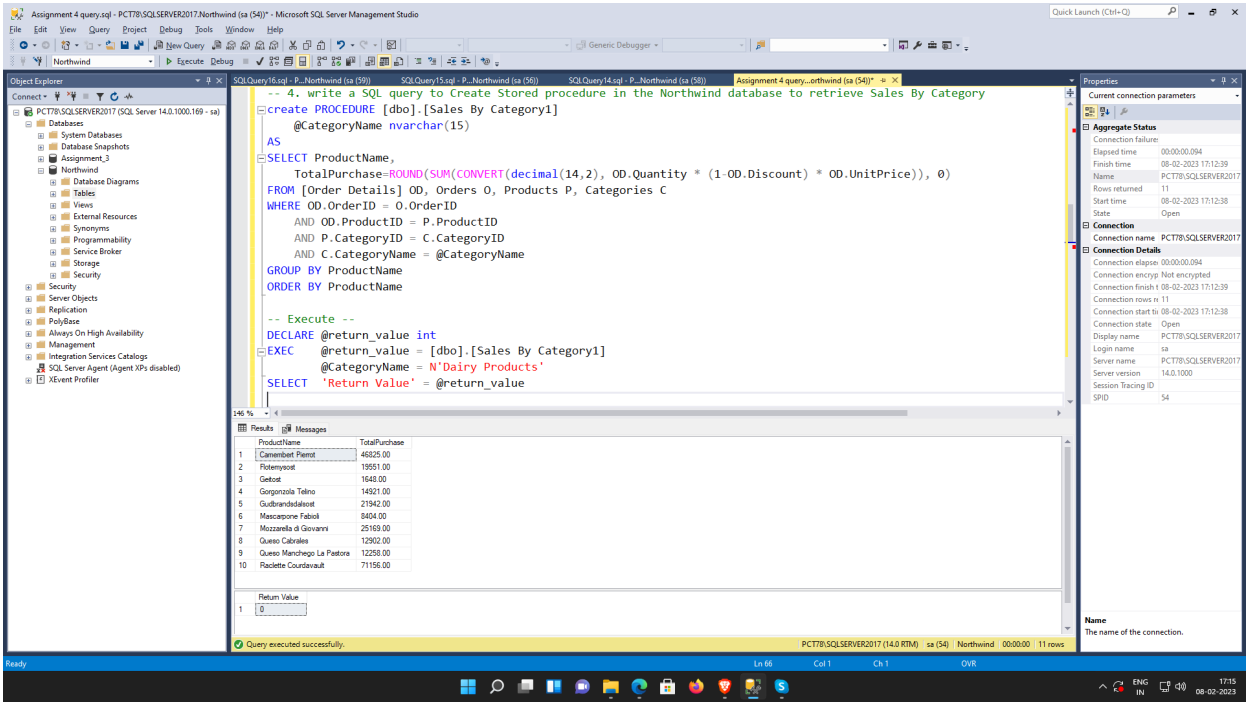
-- 3. write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales by Year



```
-- 3. write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales by Year

create procedure [dbo].[SalesByYear]
    @B_Date DateTime, @E_Date DateTime
    AS
SELECT Orders.ShippedDate, Orders.OrderID, "Order Subtotals".Subtotal, DATENAME(yy,ShippedDate) AS Year
FROM Orders
INNER JOIN "Order Subtotals"
ON Orders.OrderID = "Order Subtotals".OrderID
WHERE Orders.ShippedDate Between @B_Date And @E_Date
order by Orders.ShippedDate
-- execute --
DECLARE @return_value int
EXEC    @return_value = [dbo].[SalesByYear]
        @B_Date = N'1997-1-1',
        @E_Date = N'1998-1-1'
SELECT  'Return Value' = @return_value
GO
```

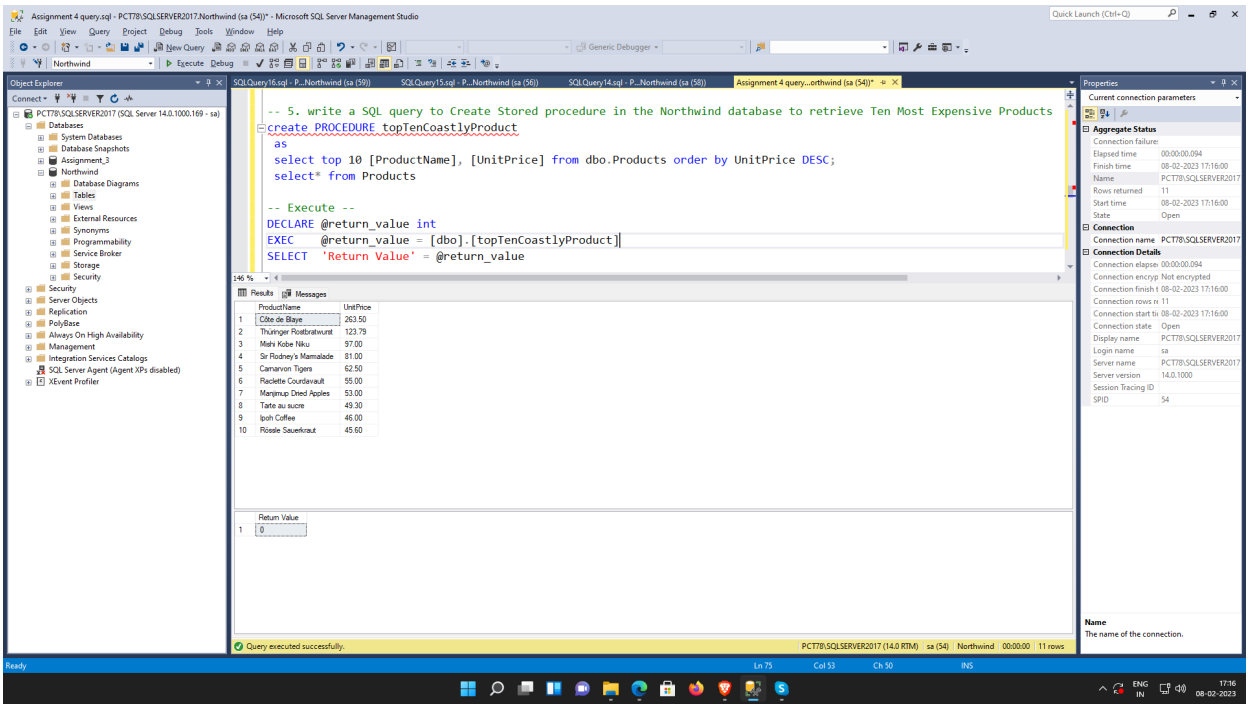
-- 4. write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales By Category



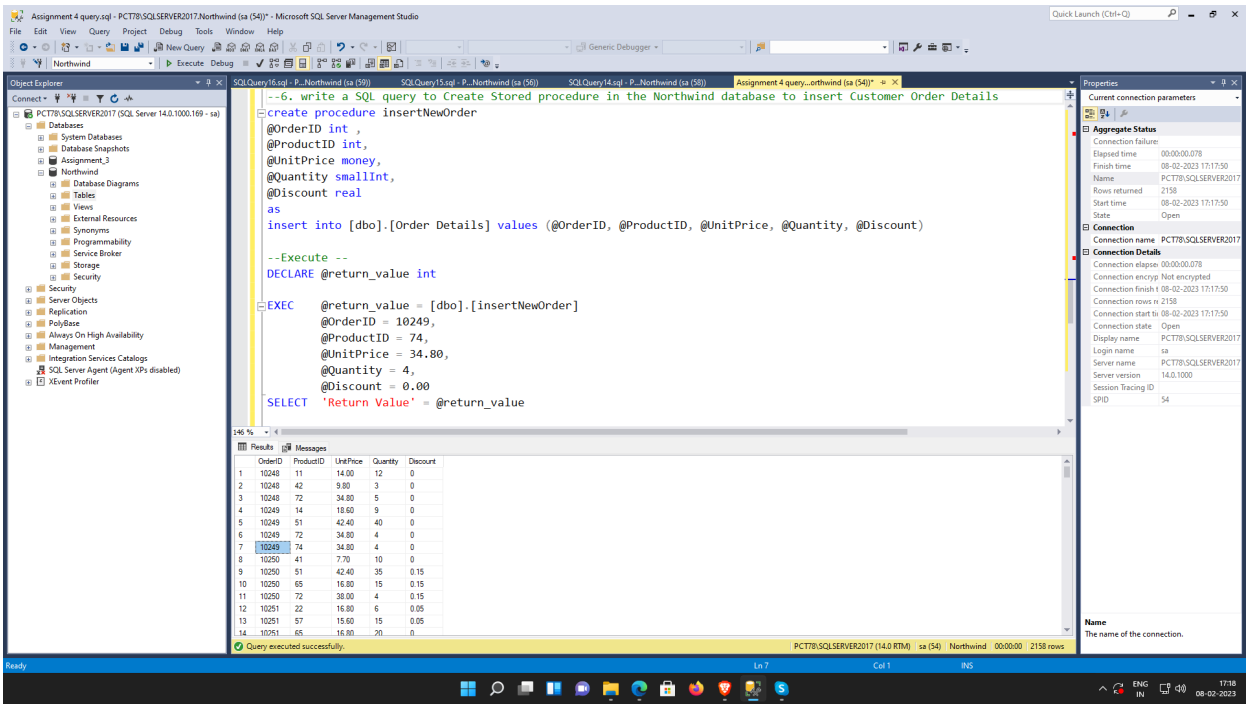
```
-- 4. write a SQL query to Create Stored procedure in the Northwind database to retrieve Sales By Category
create PROCEDURE [dbo].[Sales By Category1]
    @CategoryName nvarchar(15)
AS
SELECT ProductName,
    TotalPurchase=ROUND(SUM(CONVERT(decimal(14,2), OD.Quantity * (1-OD.Discount) * OD.UnitPrice)), 0)
FROM [Order Details] OD, Orders O, Products P, Categories C
WHERE OD.OrderID = O.OrderID
    AND OD.ProductID = P.ProductID
    AND P.CategoryID = C.CategoryID
    AND C.CategoryName = @CategoryName
GROUP BY ProductName
ORDER BY ProductName

-- Execute --
DECLARE @return_value int
EXEC    @return_value = [dbo].[Sales By Category1]
        @CategoryName = N'Dairy Products'
SELECT  'Return Value' = @return_value
```

-- 5. write a SQL query to Create Stored procedure in the Northwind database to retrieve Ten Most Expensive Products



--6. write a SQL query to Create Stored procedure in the Northwind database to insert Customer Order Details



--7. write a SQL query to Create Stored procedure in the Northwind database to update Customer Order Details