Assignment:-4

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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.

```
Ans:- CREATE PROCEDURE que1
       SELECT CustomerID, AVG(Freight) as AvgFreight
       FROM Orders
       GROUP BY CustomerID
       GO
       insert into orders values ( 'VAFFE', 8,'1997-08-25 00:00:00.000', '1997-08-01
00:00:00.000','1997-01-01 00:00:00.000',1,80, 'Wolski Zajazd','ul.Filtrowa 68',
       'Warszawa', 'Tachira', 24100, 'brazil')
       exec que1
       UPDATE Orders SET Freight=60 WHERE OrderID = 10248
       SELECT * FROM Orders WHERE OrderID = 10248
       CREATE TRIGGER tr_que1_update
       ON orders
       INSTEAD OF UPDATE
       AS
       BEGIN
       Declare @OrderID int
       Declare @CustomerID varchar(50)
       Declare @Freight money
       Declare @AvgFreight money
       Declare @t ave TABLE(CustomerID nchar(5), AvgFreight money)
       INSERT @t ave
       exec que1
       Select * Into #Temptable FROM Inserted
       While(Exists(Select OrderID from #TempTable))
       Begin
          Select TOP 1 @OrderID = OrderID, @CustomerID = CustomerID, @Freight=Freight
             FROM #Temptable
              SET @AvgFreight = (SELECT AvgFreight FROM @t ave WHERE CustomerID =
             @CustomerID)
             IF @Freight > @AvgFreight
             RAISERROR ('ABOVE AVERAGE', 16,1)
             END
             ELSE
```

```
BEGIN
              UPDATE Orders SET Freight = @Freight WHERE OrderID=@OrderID
              Delete from #TempTable where OrderID = @OrderID
              End
              CREATE TRIGGER tr_que1_insert
              ON orders
              INSTEAD OF INSERT
              AS
              BEGIN
       Declare @OrderID int
       Declare @CustomerID varchar(50)
       Declare @Freight money
       Declare @AvgFreight money
       Declare @t_ave TABLE(CustomerID nchar(5), AvgFreight money)
 INSERT @t ave exec que1
       Select * Into #Temptable FROM Inserted
       While(Exists(Select OrderID from #TempTable))
              Select TOP 1 @OrderID = OrderID, @CustomerID = CustomerID,
              @Freight=Freight
              FROM #Temptable
              SET @AvgFreight = (SELECT AvgFreight FROM @t_ave WHERE CustomerID =
              @CustomerID)
              IF @Freight > @AvgFreight
              BEGIN
                     RAISERROR ('ABOVE AVERAGE', 16,1)
              END
              ELSE
              BEGIN
              INSERT INTO Orders
       (CustomerID, EmployeeID, OrderDate, RequiredDate, ShippedDate, ShipVia, Freight, ShipN
ame,ShipAddress,ShipCity,ShipRegion,ShipPostalCode,ShipCountry)
              SELECT
       CustomerID, EmployeeID, OrderDate, RequiredDate, ShippedDate, ShipVia, Freight, ShipNa
me, ShipAddress, ShipCity, ShipRegion, ShipPostalCode, ShipCountry
              From Inserted
              END
              Delete from #TempTable where OrderID = @OrderID
              End
              END
 2. write a SQL query to Create Stored procedure in the Northwind database to retrieve Employee
     Sales by Country
Ans:- CREATE PROC spEmployeeSalesbByCounttry
       @country NVARCHAR(10)
```

AS BEGIN

```
SELECT FirstName, LastName, COUNT(o.OrderID)

AS [totle sales] , @country AS Country

FROM [Order Details] r

JOIN Orders o ON o.OrderID = r.OrderID

JOIN Employees e ON o.EmployeeID = e.EmployeeID

group by FirstName, LastName, o.ShipCountry having
o.ShipCountry = @country

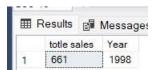
END
```

Out put :- spEmployeeSalesbByCounttry 'UK'

| | FirstName | LastName | totle sales | Country |
|---|-----------|-----------|-------------|---------|
| 1 | Steven | Buchanan | 7 | UK |
| 2 | Laura | Callahan | 16 | UK |
| 3 | Nancy | Davolio | 22 | UK |
| 4 | Anne | Dodsworth | 10 | UK |
| 5 | Andrew | Fuller | 11 | UK |
| 6 | Robert | King | 12 | UK |
| 7 | Janet | Leverling | 17 | UK |
| 8 | Margaret | Peacock | 28 | UK |
| 9 | Michael | Suyama | 12 | UK |

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

Out Put :- spSalesbByyear 1998



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

```
JOIN Categories ON Products.CategoryID = Categories.CategoryID where
Categories.CategoryName = @CategoryName
    group by Categories.CategoryName
    END
```

Ans: - spSalesbByCategory 'seafood'

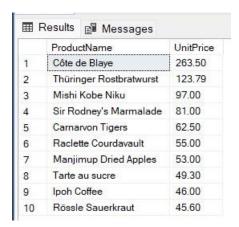


5. write a SQL query to Create Stored procedure in the Northwind database to retrieve Ten Most Expensive Products

Ans:-

```
CREATE PROC sp10mostExpensiveproducts
as
begin
select top 10 ProductName , UnitPrice from Products order by UnitPrice desc
```

Out put :- sp10mostExpensiveproducts



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

```
Ans:- CREATE PROC spCustomerOrderDetails

@OrderID int,
@ProductID int,
@UnitPaice money,
@Quantity smallint,
@Discount real
as
begin
insert into [Order Details] values (@OrderID , @ProductID , @UnitPaice ,
@Quantity , @Discount)
end

Out put:- SpCustomerOrderDetails 10248,14,522,5,0.2

SELECT * FROM [Order Details]
```

| | OrderID | ProductID | UnitPrice | Quantity | Discount |
|----|---------|-----------|-----------|----------|----------|
| 1 | 10248 | 11 | 14.00 | 12 | 0 |
| 2 | 10248 | 14 | 522.00 | 5 | 0.2 |
| 3 | 10248 | 42 | 9.80 | 10 | 0 |
| 4 | 10248 | 72 | 34.80 | 5 | 0 |
| 5 | 10249 | 14 | 18.60 | 9 | 0 |
| 6 | 10249 | 51 | 42.40 | 40 | 0 |
| 7 | 10250 | 41 | 7.70 | 10 | 0 |
| 8 | 10250 | 51 | 42.40 | 35 | 0.15 |
| 9 | 10250 | 65 | 16.80 | 15 | 0.15 |
| 10 | 10251 | 22 | 16.80 | 6 | 0.05 |
| 11 | 10251 | 57 | 15.60 | 15 | 0.05 |
| 12 | 10251 | 65 | 16.80 | 20 | 0 |
| 13 | 10252 | 20 | 64.80 | 40 | 0.05 |
| 14 | 10252 | 33 | 2.00 | 25 | 0.05 |
| 45 | 10050 | 60 | 27.20 | 40 | 0 |

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

```
Ans:- CREATE PROC spUpdateCustomerOrderDetails
    @orderid int,
    @productid int,
    @unitprice money,
    @quantity smallint,
    @discount real

as
    update [Order Details]
    set [Quantity] = @quantity , [UnitPrice] = @unitprice, [Discount] = @discount
    WHERE ([OrderID] = @orderid AND [ProductID] = @productid)
    Go
```

| | OrderID | ProductID | UnitPrice | Quantity | Discount |
|---|---------|-----------|-----------|----------|----------|
| 1 | 10248 | 11 | 14.00 | 12 | 0.1 |
| 2 | 10248 | 14 | 522.00 | 5 | 0.2 |
| 3 | 10248 | 42 | 9.80 | 10 | 0.1 |
| 4 | 10248 | 72 | 35.25 | 2 | 0.13 |
| 5 | 10249 | 14 | 18.60 | 9 | 0 |
| 6 | 10249 | 51 | 42.40 | 40 | 0 |
| 7 | 10250 | 41 | 7.70 | 10 | 0.1 |