Assignment 4: Create Stored procedure in Northwind database to insert or update a --record in a table

```
--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.
```

alter Procedure spCalculateAvgFreight @CustomerID nchar(10), @AvgFreight money out as Begin Select @AvgFreight = avg(Freight) From Orders Where CustomerID = @CustomerID End

alter Trigger check_freight **ON Orders** Instead of Insert as Begin

> Declare @Avg money Exec spCalculateAvgFreight 'VINET', @Avg out

Declare @Freight money Select @Freight = Freight from inserted if(@Freight > @Avg) Begin Print 'Command is cancelled'

Return

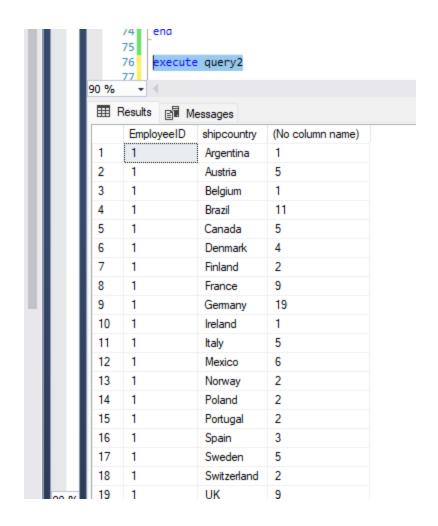
End

End

```
57
     58 INSERT INTO "Orders"
         ("CustomerID", "EmployeeID", "OrderDate", "RequiredDate",
     59
              "ShippedDate", "ShipVia", "Freight", "ShipName", "ShipAddress",
     60
              "ShipCity", "ShipRegion", "ShipPostalCode", "ShipCountry")
     61
     62 VALUES (N'TOMSP',6,'7/5/1996','8/16/1996','7/10/1996',1,200.61,
             N'Toms Spezialitäten', N'Luisenstr. 48', N'Münster',
              NULL, N'44087', N'Germany')
     64
90 % 🕶 🔻
 Messages
   Command is cancelled
   (1 row affected)
```

--2. write a SQL query to Create Stored procedure in the Northwind database to retrieve --Employee Sales by Country create procedure query2 as begin select EmployeeID ,shipcountry ,count(shipcountry) from orders group by EmployeeID,shipcountry order by EmployeeID end

execute query2



alter Procedure Employee_SalesByld @shipcontry nvarchar(15)

As

BEGIN

SELECT Employees.LastName, Employees.FirstName, 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 Orders.shipcountry = @shipcontry

END

execute Employee_SalesById 'USA'

90 %	89 select 90 execut 91		Order Subtotals" e_SalesById 'USA'		
≡	Results 📳	Messages			
	LastName	FirstName	ShippedDate	OrderID	SaleAmount
1	Callahan	Laura	1996-07-25 00:00:00.000	10262	584.00
2	Buchanan	Steven	1996-08-09 00:00:00.000	10269	642.20
3	Suyama	Michael	1996-08-30 00:00:00.000	10271	48.00
4	Suyama	Michael	1996-08-06 00:00:00.000	10272	1456.00
5	Peacock	Margaret	1996-09-05 00:00:00.000	10294	1887.60
6	Callahan	Laura	1996-10-09 00:00:00.000	10305	3741.30
7	Fuller	Andrew	1996-09-25 00:00:00.000	10307	424.00
8	Callahan	Laura	1996-09-27 00:00:00.000	10310	336.00
9	Davolio	Nancy	1996-10-04 00:00:00.000	10314	2094.30
10	Davolio	Nancy	1996-10-08 00:00:00.000	10316	2835.00
11	Suyama	Michael	1996-10-10 00:00:00.000	10317	288.00
12	Dodsworth	Anne	1996-10-10 00:00:00.000	10324	5275.72

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

--Sales by Year

create procedure query3

as

begin

 $select\ YEAR (ShippedDate), COUNT (OrderID)\ as\ "total\ no\ of\ sales"\ from\ Orders$

group by YEAR(ShippedDate)

order by YEAR(ShippedDate)

end

execute query3

create procedure [dbo].[Sales_by_Year]

@Beginning_Date DateTime, @Ending_Date DateTime AS

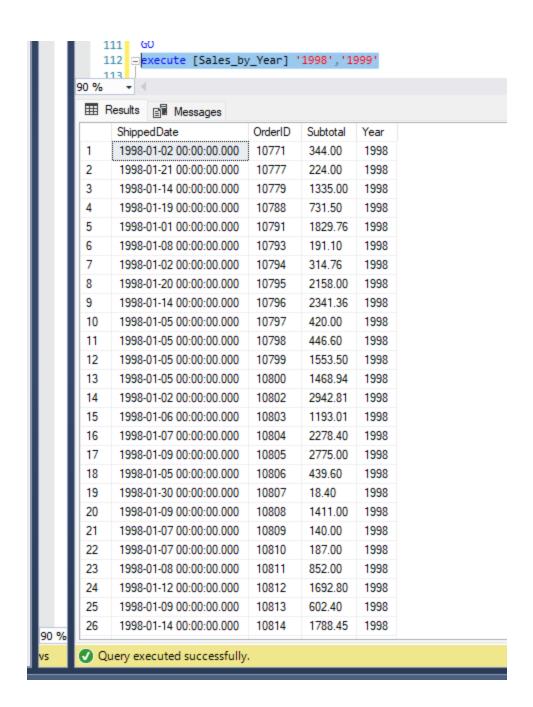
SELECT Orders.ShippedDate, Orders.OrderID, "Order Subtotals".Subtotal,

DATENAME(yy,ShippedDate) AS Year

FROM Orders INNER JOIN "Order Subtotals" ON Orders.OrderID = "Order Subtotals".OrderID WHERE Orders.ShippedDate Between @Beginning_Date And @Ending_Date

GO

execute [Sales_by_Year] '1998','1999'



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

--Sales By Category

create procedure query4

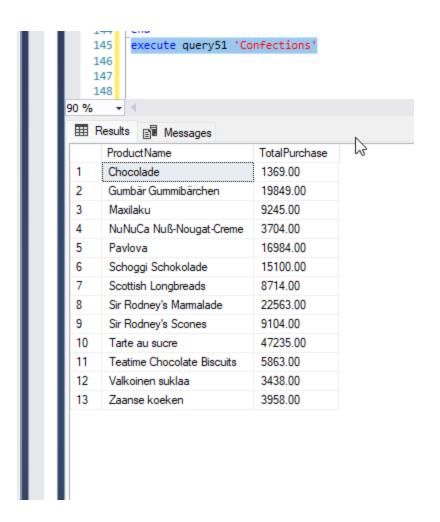
as

begin

select distinct c.CategoryID,count(c.CategoryName) as "number of orders",c.CategoryName from orders o

inner join "order details" od on od.orderid=o.OrderID inner JOIN Products p on p.productID=od.productid inner join Categories c on p.CategoryID= c.CategoryID

```
group by c.CategoryID ,c.CategoryName
end
execute query4
create procedure query51
 @CategoryName nvarchar(15)
as
begin
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
      --AND SUBSTRING(CONVERT(nvarchar(22), O.OrderDate, 111), 1, 4) = @OrdYear
GROUP BY ProductName
ORDER BY ProductName
execute query51 'Confections'
```



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

-- Ten Most Expensive Products

alter procedure query5

as

begin

select top 10 ProductName, UnitPrice from Products order by UnitPrice desc end

execute query5



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

```
create procedure query6
```

```
@OID int,
    @pid int ,
    @UnitPrice money ,
    @Quantity smallint ,
    @Discount real
as
begin
insert into [Order Details] values (
    @OID ,
    @pid ,
    @UnitPrice ,
    @Quantity ,
    @Discount )
end
```

execute query6 10248,14, 18.60, 9 ,0

```
181

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183

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Messages

(1 row affected)
```

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

create procedure query7

@changeid int,

@OID int,

@pid int,

@UnitPrice money,

@Quantity smallint,

@Discount real

as

begin

UPDATE [Order Details]

SET OrderID = @OID, ProductID = @pid, UnitPrice = @UnitPrice, Quantity = @Quantity,

Discount = @Discount

WHERE OrderID = @changeid

end

execute query7 11074,10288,14, 18.60, 9 ,0

The section

