**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.**

CREATE PROC avg\_freight\_order

@customerId NCHAR(5)

AS

BEGIN

SELECT CustomerID=@customerId, AVG(Freight) "freight average" FROM Orders GROUP BY CustomerID HAVING CustomerID = @customerId;

END

EXEC avg\_freight\_order "VINET"

****

CREATE PROC insert\_update\_orders

@customerid NCHAR(5), @Freight MONEY

AS

BEGIN

DECLARE @avgfreight MONEY

SELECT @avgfreight = AVG(Freight) FROM Orders GROUP BY CustomerID HAVING CustomerID = @customerid;

IF @Freight > @avgfreight

BEGIN

PRINT 'Freight value is greater than average value';

RETURN

END

END

EXEC insert\_update\_orders 'ALFKI',50

****

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

CREATE PROC sp\_empsale\_by\_country

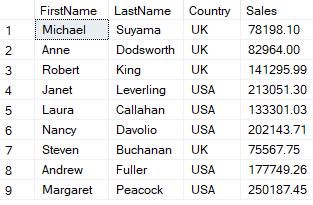
AS

BEGIN

SELECT e.FirstName, e.LastName, e.Country, SUM(od.UnitPrice\*od.Quantity) "Sales" FROM Orders o JOIN [Order Details] od ON o.OrderID = od.OrderID JOIN Employees e ON o.EmployeeID = e.EmployeeID GROUP BY e.Country,e.FirstName,e.LastName;

END

EXEC sp\_empsale\_by\_country;

****

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

CREATE PROC sp\_sales\_by\_year

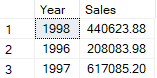
AS

BEGIN

SELECT YEAR(o.OrderDate) "Year", SUM(st.Subtotal) "Sales" FROM Orders o JOIN [Order Subtotals] st ON o.OrderID = st.OrderID GROUP BY YEAR(o.OrderDate);

END

EXEC sp\_sales\_by\_year

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

CREATE PROC sp\_sales\_by\_category

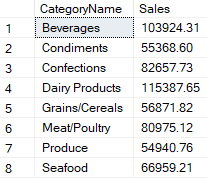
AS

BEGIN

SELECT CategoryName, SUM(ProductSales) "Sales" FROM [Sales by Category] GROUP BY CategoryName;

END

EXEC sp\_sales\_by\_category;

****

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

CREATE PROC sp\_10\_exp\_prod

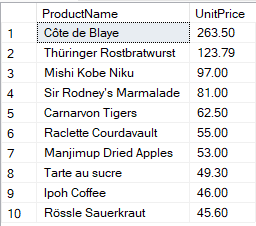
AS

BEGIN

SELECT TOP 10 ProductName, UnitPrice FROM Products ORDER BY UnitPrice DESC;

END

EXEC sp\_10\_exp\_prod;

****

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

CREATE PROC insert\_order\_details

@orderid INT, @productid INT, @unitprice MONEY, @quantity SMALLINT, @discount REAL

AS

BEGIN

INSERT INTO [Order Details] VALUES (@orderid, @productid, @unitprice, @quantity, @discount);

END

EXEC insert\_order\_details 11075,77,50,10,0.25;

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

CREATE PROC update\_order\_details

@orderid INT, @unitprice MONEY, @quantity SMALLINT, @discount REAL

AS

BEGIN

UPDATE [Order Details] SET UnitPrice=@unitprice, Quantity=@quantity, Discount=@discount WHERE OrderID=@orderid;

END

EXEC update\_order\_details 11075,50,10,0.20