

Assignment 2

Question 1:

```
SELECT orderid, orderdate, requireddate, shippeddate,  
shipname, shipaddress, DATEDIFF (d, orderdate, shippeddate) AS [Delay Time]  
FROM Sales.Orders  
WHERE DATEDIFF (d, orderdate, shippeddate) <=5;
```

Question 2:

```
SELECT shipcountry, COUNT (*) AS Total  
FROM Sales.Orders  
GROUP BY shipcountry;
```

Question 3:

```
SELECT TOP (3) shipcountry, COUNT (*) AS TOTAL  
FROM Sales.Orders  
GROUP BY shipcountry  
ORDER BY TOTAL DESC;
```

Question 4:

```
SELECT E.lastname, COUNT(*) AS [Number Of Orders]  
FROM Sales.Orders AS S, HR.Employees As E  
WHERE S.empid = E.empid AND  
(S.orderdate >= '01/01/2007' AND S.orderdate < '02/01/2007')  
GROUP BY E.lastname, E.empid  
ORDER BY [Number Of Orders] ASC
```

Question 5:

```
SELECT P.productname, COUNT (P.productid) AS [Number Of Orders],  
OD.qty AS [Total Quantity], C.country  
FROM Production.Products AS P, Sales.OrderDetails AS OD,  
Sales.Customers AS C, Sales.Orders AS O  
WHERE P.productID = OD.productid AND  
OD.orderid = O.orderid AND  
O.custid = C.custid AND  
C.country = 'Germany'  
GROUP BY P.productid, P.productname, OD.qty, C.country  
ORDER BY P.productname ASC
```

Question 6:

```
SELECT C.companyname, COUNT (*) AS [Number Of Orders]  
FROM Sales.customers AS C, Sales.Orders As O  
WHERE C.custid = O.custid AND  
(O.orderdate >= '07/01/2006' AND O.orderdate < '09/01/2006')  
GROUP BY C.companyname  
ORDER BY C.companyname ASC
```

Question 7:

```
SELECT OD.productid, P.productname  
FROM Production.products AS P, Sales.OrderDetails AS OD,  
Sales.orders AS O  
WHERE P.productid = OD.productid AND  
OD.orderid = O.orderid AND  
O.orderid NOT IN (SELECT orderid FROM Sales.Orders  
WHERE (O.orderdate >= '06/01/2006' AND O.orderdate < '07/01/2006'))  
GROUP BY OD.productid, P.productname  
ORDER BY OD.productid ASC
```

Question 8a:

```
SELECT S.companyname, SUM (OD.unitprice * OD.qty) AS [Order Amount]
FROM Production.Suppliers AS S, Sales.OrderDetails AS OD,
Production.Products AS P, Sales.Orders AS O
WHERE OD.productid = P.productid AND
P.supplierid = S.supplierid AND
OD.orderid = O.orderid
GROUP BY S.supplierid, S.companyname
ORDER BY [Order Amount] DESC
```

Question 8b:

```
SELECT TOP (3) S.companyname, SUM (OD.unitprice * OD.qty) AS [Order Amount]
FROM Production.Suppliers AS S, Sales.OrderDetails AS OD,
Production.Products AS P, Sales.Orders AS O
WHERE OD.productid = P.productid AND
P.supplierid = S.supplierid AND
OD.orderid = O.orderid
GROUP BY S.supplierid, S.companyname
ORDER BY [Order Amount] DESC
```

Question 9:

```
SELECT C.companyname, C.address, C.city, C.region, C.postalcode,
C.country, O.orderdate
FROM Sales.Customers AS C, Sales.Orders AS O,
Sales.OrderDetails AS OD, Production.Products As P,
Production.Categories AS CA
WHERE C.custid = O.custid AND
O.orderid = OD.orderid AND
OD.productid = P.productid AND
P.categoryid = CA.categoryid AND
CA.categoryname = 'Confections' AND
(O.orderdate >= '08/01/2006' AND O.orderdate < '09/01/2006')
ORDER BY C.companyname
```