----------------------------------------Question1

select C.CustomerID, concat(C.FirstName,' ',C.LastName) AS 'Customer Name' ,

C.CompanyName , A.AddressType

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress A

ON C.CustomerID = A.CustomerID

---------------------------------------------Question2

select C.CompanyName , A.AddressType

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress A

ON C.CustomerID = A.CustomerID

Where A.AddressType LIKE 'Shipping'

-------------------------------------------------Question3

-

select C.LastName , COUNT (A.AddressType)

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress A

ON C.CustomerID = A.CustomerID

GROUP BY C.LastName

-------------------------------------------------------------Question4

select C.LastName , COUNT (A.AddressType) AS 'Number Of Address Type'

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress A

ON C.CustomerID = A.CustomerID

GROUP BY C.LastName

HAVING COUNT (A.AddressType) >= 2

-------------------------------------------------------------------------Question5

select C.LastName , COUNT (A.AddressType) AS 'Number Of Address Type'

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress A

ON C.CustomerID = A.CustomerID

GROUP BY C.LastName

having LEFT(C.LastName,1) IN ('A','B','C','D','E','F','G','H')

AND COUNT (A.AddressType) >= 2

--------------------------------------Question6

select C.CustomerID, concat(C.FirstName,' ',C.LastName) AS 'Customer Full Name' ,

concat(A.City,' ', A.StateProvince,' ',A.PostalCode ) AS 'Address'

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress CA

ON C.CustomerID = CA.CustomerID

INNER JOIN SalesLT.Address A

ON CA.AddressID = A.AddressID

order by C.FirstName

-------------------------------------------------------Question7

select C.CustomerID, concat(C.FirstName,' ',C.LastName) AS 'Customer Name' ,

concat(A.City,' ', A.StateProvince,' ',A.PostalCode ) AS 'Address' , A.AddressLine2

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress CA

ON C.CustomerID = CA.CustomerID

INNER JOIN SalesLT.Address A

ON CA.AddressID = A.AddressID

where A.AddressLine2 IS NOT NULL

order by C.FirstName

--------------------------------------------------------------Question8

select C.CompanyName, COUNT (CA.AddressType) AS 'Number Of Address Type'

from SalesLT.Customer C

INNER JOIN SalesLT.CustomerAddress CA

ON C.CustomerID = CA.CustomerID

INNER JOIN SalesLT.Address A

ON CA.AddressID = A.AddressID

WHERE A.StateProvince IN ('Texas','COLORADO','WASHINGTON')

GROUP BY C.CompanyName

HAVING COUNT(CA.AddressType) >= 2

-------------------------------------------------------------------Question9

SELECT SOH.SalesOrderID , Concat (C.FirstName, ' ' ,

C.LastName) AS 'Customer FullName', SOH.TotalDue

FROM SalesLT.SalesOrderHeader SOH

INNER JOIN SalesLT.Customer C

ON SOH.CustomerID = C.CustomerID

ORDER BY C.FirstName

-----------------------------------------Question10

SELECT P.Name , SOH.TotalDue

FROM SalesLT.SalesOrderHeader SOH

INNER JOIN SalesLT.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

INNER JOIN SalesLT.Product P

ON SOD.ProductID = P.ProductID

order by P.Name

**OR**

SELECT P.Name , SUM (SOH.TotalDue) AS 'Sum Of Total Due For Each Product Name'

FROM SalesLT.SalesOrderHeader SOH

INNER JOIN SalesLT.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

INNER JOIN SalesLT.Product P

ON SOD.ProductID = P.ProductID

GROUP BY P.Name

order by P.Name

------------------------------------------------------Question11

SELECT P.Name , SOH.TotalDue

FROM SalesLT.SalesOrderHeader SOH

INNER JOIN SalesLT.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

INNER JOIN SalesLT.Product P

ON SOD.ProductID = P.ProductID

where P.Name LIKE 'Mount%'

---------------------------------------------------------------Question12

SELECT P.Name , SOH.TotalDue , P.Color

FROM SalesLT.SalesOrderHeader SOH

INNER JOIN SalesLT.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

INNER JOIN SalesLT.Product P

ON SOD.ProductID = P.ProductID

where P.Color IN ('Black','Blue')

-------------------------------------------------------Question13

SELECT SOH.TotalDue, COUNT(SOD.ProductID) AS

'Number Of Products On each Order ', SOH.SalesOrderID ,C.FirstName, C.LastName

FROM SalesLT.Customer C INNER JOIN

SalesLT.SalesOrderHeader SOH ON C.CustomerID = SOH.CustomerID INNER JOIN

SalesLT.SalesOrderDetail SOD ON SOH.SalesOrderID = SOD.SalesOrderID

GROUP BY SOH.SalesOrderID, SOH.TotalDue

,C.FirstName, C.LastName

HAVING (COUNT(SOD.ProductID) > 25)

**OR With Using View**

CREATE VIEW [Assign4-Q13] AS

SELECT SOD.SalesOrderID

,COUNT(DISTINCT SOD.ProductID) AS 'Number Of Diffrent Products On each Order'

FROM SalesLT.SalesOrderDetail SOD

GROUP BY SOD.SalesOrderID

HAVING COUNT(DISTINCT SOD.ProductID) >25

SELECT A.SalesOrderID , A.[Number Of Diffrent Products On each Order] , SOH.TotalDue

, CONCAT ( C.FirstName , ' ' , C.LastName ) AS 'Customer Name'

FROM [Assign4-Q13] A

INNER JOIN SalesLT.SalesOrderHeader SOH

ON A.SalesOrderID = SOH.SalesOrderID

INNER JOIN SalesLT.Customer C

ON SOH.CustomerID = C.CustomerID

---------------------------------------------------------------- ---------Question14

SELECT P.Name , SOH.TotalDue , P.Color

FROM SalesLT.SalesOrderHeader SOH

INNER JOIN SalesLT.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

INNER JOIN SalesLT.Product P

ON SOD.ProductID = P.ProductID

where P.Name LIKE '%Mount%' AND (P.Color LIKE 'Black' OR P.Color LIKE 'Yellow')

-------------------------------------------------------------------------------Question15

SELECT CONCAT (C.FirstName, ' ' , C.LastName) AS 'Full Name' , P.Name ,P.Color

FROM SalesLT.Customer C

INNER JOIN SalesLT.SalesOrderHeader SOH

ON C.CustomerID = SOH.CustomerID

INNER JOIN SalesLT.SalesOrderDetail SOD

ON SOH.SalesOrderID = SOD.SalesOrderID

INNER JOIN SalesLT.Product P

ON SOD.ProductID = P.ProductID

where P.Color LIKE 'Red'