Assignment-1

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a)1. total sales using SOH

SELECT SUM(SubTotal) as SOH\_ST\_Sales

FROM SalesLT.SalesOrderHeader

Total rows: 1

a) 2. Total sales using SOD

SELECT SUM(LineTotal) as SOD\_LT\_Sales

FROM SalesLT.SalesOrderDetail

Total rows:1

a)3. Comparing query SOHvsSOD

SELECT 'SOH\_SubTotal\_Sales' as 'Comparison', sum(s.SubTotal) as 'SubAmount'

FROM [SalesLT].[SalesOrderHeader] as Soh

UNION

SELECT 'SOD\_LineTotal\_Sales', sum(s.LineTotal)

FROM [SalesLT].[SalesOrderDetail] as Sod

Total rows:2

b) total sales by country

SELECT CountryRegion, SUM(SubTotal) AS SOH\_ST\_Sales

FROM SalesLT.SalesOrderHeader SOH

JOIN SalesLT.Address AD ON AD.AddressID=SOH.BillToAddressID

GROUP BY AD.CountryRegion

ORDER BY SOH\_ST\_Sales desc

Total rows:2

c) total sales by country, state & city

SELECT CountryRegion, StateProvince, city, SUM(SUBTOTAL) AS SOH\_ST\_Sales

FROM SalesLT.SalesOrderHeader SOH

JOIN SalesLT.Address A ON A.AddressID=SOH.BillToAddressID

GROUP BY A.CountryRegion, A.StateProvince, A.City;

Total rows:29

d) total sales by customer (person)

SELECT concat (c.lastName, ', ', c.FirstName) as 'CustomerName', sum(sod.LineTotal) as 'SOD\_LT\_Sales'

FROM [SalesLT].[Customer] as c

JOIN [SalesLT].[SalesOrderHeader] as Soh

ON c. customerID = Soh. customerID

JOIN [SalesLT].[SalesOrderDetail] as Sod

ON Soh. salesorderid = Sod. salesorderid

GROUP BYc.lastname, c. firstname

ORDER BY sum (sod. LineTotal) desc

Total rows: 32

e) total sales by customer(company)

Select c.CompanyName, SUM(LineTotal) AS Sod\_LT\_Sales

FROM SalesLT.SalesOrderHeader h

INNER JOIN SalesLT.Customer c on h.CustomerID=c.CustomerID

INNER JOIN SalesLT.SalesOrderDetail o on h.SalesOrderID=o.SalesOrderID

GROUP BY c.CompanyName

ORDER BY SUM(LineTotal) desc

Total rows: 32

f) total sales by product category hirerarcy

SELECT pc.ParentProductCategoryName as 'ParentProductCategoryName', pc.ProductCategoryName as 'ProductCategoryName', p.name as 'ProductName', sum(sod.linetotal) as 'SOD\_LT\_Sales'

FROM [SalesLT].[vgetallcategories] as pc

JOIN [SalesLT].[Product] as p on p.productcategoryid = pc.productcategoryid

JOIN[SalesLT].[SalesOrderDetail] as sod on p.productid = sod.productid

GROUP BY pc.ParentProductCategoryName,pc.ProductCategoryName,p.name

Total rows: 142

g) sales by product name

SELECT p.Name, SUM(s.LineTotal) AS Sod\_LT\_Sales

FROM SalesLT.Product p

INNER JOIN SalesLT.SalesOrderDetail s on p.ProductID=s.ProductID

GROUP BY p.Name

ORDER BY SUM(s.LineTotal) DESC

Total rows:142

h) sales by company(reseller)

SELECT c.CompanyName, SUM(LineTotal) AS Sod\_LT\_Sales

FROM SalesLT.SalesOrderHeader h

INNER JOIN SalesLT.Customer c on h.CustomerID=c.CustomerID

INNER JOIN SalesLT.SalesOrderDetail o on h.SalesOrderID=o.SalesOrderID

GROUP BY c.CompanyName

ORDER BY SUM(LineTotal) desc

Total rows:32

i)product category sales by company(reseller)

SELECT c.CompanyName as 'Companyname', pc.Name as 'Categoryname', sum(sod.LineTotal) as 'Sod\_LT\_Sales'

FROM [SalesLT].[ProductCategory] as prodcate

JOIN[SalesLT].[Product] as p on p.productcategoryid = pc.productcategoryid

JOIN [SalesLT].[SalesOrderDetail] as sod on sod.productid = p.productid

JOIN[SalesLT].[SalesOrderHeader] as soh on soh.salesorderid = sod.salesorderid

JOIN[SalesLT].[Customer] as c on c.customerID = soh.customerID

GROUP BY c.CompanyName,pc.Name

ORDER BY sum(sod.LineTotal) desc

Total rows: 195