**Question 1 :**

**Top purchasing vendors products purchased**

**Note : *For each product who are the vendors who are selling maximum quantity***

**Query :**

select F.ProductID,F.ProductName,F.VendorID,v.VendorName,F.QuantitySold from DimVendor v

JOIN

(

select E.ProductID,ProductName,E.VendorID,E.QuantitySold from DimProduct p

Join

(

select A.ProductID,A.VendorID,A.total QuantitySold from

(select ProductID,vendorID,sum(OrderQty) total from FactOrder f

where vendorID is not null

group by ProductID,vendorID) As A

JOIN

(select ProductID, Max(total) maximum from (

select ProductID,vendorID,sum(OrderQty) total from FactOrder f

where vendorID is not null

group by ProductID,vendorID) As B

group by ProductID) AS C

ON A.ProductID = C.ProductID and A.total = C.maximum) As E

On p.ProductID = E.ProductID ) As F

On v.VendorID = F.vendorID

**Question 2:**

**Top products purchased by category & subcategory ( Top is considered based on OrderQuantity)**

***Note : In each category, subcategory the products whose order quantity is more is selected from the query***

**Query :**

SELECT D.ProductCategoryID,D.ProductSubCategoryID,p.ProductID,p.ProductName,D.cnt\_eachproduct As SoldQuantity FROM(

select A.ProductCategoryID,A.ProductSubCategoryID,A.productID,A.cnt\_eachproduct

from

(select f.productID,p.ProductCategoryID,p.ProductSubCategoryID,sum(OrderQty) cnt\_eachproduct

from FactOrder f

join dimproduct p

on f.productID=p.productID

where p.ProductCategoryID is not null

and P.ProductSubCategoryID is not null

GROUP BY f.productID,p.ProductCategoryID,P.ProductSubCategoryID) AS A

JOIN

(select ProductCategoryID,ProductSubCategoryID,max(cnt\_eachproduct) maxcount

from

(select f.productID,p.ProductCategoryID,p.ProductSubCategoryID,sum(OrderQty) cnt\_eachproduct

from FactOrder f

join dimproduct p

on f.productID=p.productID

where p.ProductCategoryID is not null

and P.ProductSubCategoryID is not null

GROUP BY f.productID,p.ProductCategoryID,P.ProductSubCategoryID)A

group by ProductCategoryID,ProductSubCategoryID)B

on A.ProductCategoryID=B.ProductCategoryID and A.ProductSubCategoryID=B.ProductSubCategoryID

and A.cnt\_eachproduct=B.maxcount ) AS D

JOIN dimproduct p

on p.productID = D.productID;