1. Ranked order of Vendors by purchase amount $

select rank() over(

order by sum(LineTotal) desc) Rank ,

concat('$',sum(LineTotal)) as 'Purchase Amount',

Name,

VendorID

from [Purchasing].[PurchaseOrderDetail] ordet

join [Purchasing].[PurchaseOrderHeader] orhdr on ordet.PurchaseOrderID = orhdr.PurchaseOrderID

join [Purchasing].[Vendor] pvndr on pvndr.BusinessEntityID = orhdr.VendorID

group by VendorID,

name;

1. Ranked order of products purchased by amount $
2. By Category

SELECT prprdcat.Name,

concat('$',sum(pupordet.LineTotal)) AS 'Purchasing Amount'

FROM Production.Product AS prprdct

JOIN Production.ProductSubcategory AS prprdsbcat ON prprdsbcat.ProductSubcategoryID = prprdct.ProductSubcategoryID

JOIN Production.ProductCategory AS prprdcat ON prprdcat.ProductCategoryID = prprdsbcat.ProductCategoryID

JOIN Purchasing.PurchaseOrderDetail AS pupordet ON pupordet.ProductID = prprdct.ProductID

JOIN Purchasing.PurchaseOrderHeader AS pupuorhd ON pupuorhd.PurchaseOrderID = pupordet.PurchaseOrderID

GROUP BY prprdcat.Name

ORDER BY sum(pupordet.LineTotal) DESC;

1. By SubCategory

SELECT prprsbcat.Name,

concat('$',sum(ppordet.LineTotal)) AS 'Purchasing Amount'

FROM Production.Product AS prprdt

JOIN Purchasing.PurchaseOrderDetail AS ppordet ON ppordet.ProductID = prprdt.ProductID

JOIN Purchasing.PurchaseOrderHeader AS pupuorhd ON pupuorhd.PurchaseOrderID = ppordet.PurchaseOrderID

JOIN Production.ProductSubcategory AS prprsbcat ON prprsbcat.ProductSubcategoryID = prprdt.ProductSubcategoryID

JOIN Production.ProductCategory AS prprcat ON prprcat.ProductCategoryID = prprsbcat.ProductCategoryID

GROUP BY prprsbcat.Name

order by sum(ppordet.LineTotal) desc

1. By Product Model Top 20

SELECT top 20 prprmdl.Name,

concat('$',sum(ppordet.LineTotal)) AS 'Purchasing Amount'

FROM Production.Product AS prprdt

JOIN Purchasing.PurchaseOrderDetail AS ppordet ON ppordet.ProductID = prprdt.ProductID

JOIN Purchasing.PurchaseOrderHeader AS pporhd ON pporhd.PurchaseOrderID = ppordet.PurchaseOrderID

JOIN Production.ProductSubcategory AS prprsbcat ON prprsbcat.ProductSubcategoryID = prprdt.ProductSubcategoryID

JOIN Production.ProductCategory AS prprcat ON prprcat.ProductCategoryID = prprsbcat.ProductCategoryID

JOIN Production.ProductModel AS prprmdl ON prprmdl.ProductModelID = prprdt.ProductModelID

GROUP BY prprmdl.Name

ORDER BY sum(ppordet.LineTotal) DESC;

1. By Product top 20

SELECT top 20 prprmdl.Name,

concat('$',sum(ppordet.LineTotal)) AS 'Purchasing Amount'

FROM Production.Product AS prprdt

JOIN Purchasing.PurchaseOrderDetail AS ppordet ON ppordet.ProductID = prprdt.ProductID

JOIN Purchasing.PurchaseOrderHeader AS pporhd ON pporhd.PurchaseOrderID = ppordet.PurchaseOrderID

JOIN Production.ProductSubcategory AS prprsbcat ON prprsbcat.ProductSubcategoryID = prprdt.ProductSubcategoryID

JOIN Production.ProductCategory AS prprcat ON prprcat.ProductCategoryID = prprsbcat.ProductCategoryID

JOIN Production.ProductModel AS prprmdl ON prprmdl.ProductModelID = prprdt.ProductModelID

GROUP BY prprmdl.Name

ORDER BY sum(ppordet.LineTotal) DESC;

1. List of employees who purchased products with phone, email & address

SELECT CONCAT(prsn.LastName, ' ', prsn.FirstName) AS 'Employee Name',

prsnemail.EmailAddress,

paddr.AddressLine1,

prsnphn.PhoneNumber,

concat(‘$’,SUM(pupordet.LineTotal)) AS 'Purchase Amount'

FROM HumanResources.Employee AS hremp

JOIN Person.BusinessEntityAddress AS pbea ON hremp.BusinessEntityID = pbea.BusinessEntityID

JOIN Person.PersonPhone AS prsnphn ON prsnphn.BusinessEntityID = hremp.BusinessEntityID

JOIN Person.Address AS paddr ON paddr.AddressID = pbea.AddressID

JOIN Person.EmailAddress AS prsnemail ON prsnemail.BusinessEntityID = hremp.BusinessEntityID

JOIN Person.Person AS prsn ON prsn.BusinessEntityID = hremp.BusinessEntityID

JOIN Purchasing.PurchaseOrderHeader AS pporhd ON hremp.BusinessEntityID = pporhd.EmployeeID

GROUP BY CONCAT(prsn.LastName, ' ', prsn.FirstName),

hremp.BusinessEntityID,

prsnphn.PhoneNumber,

prsnemail.EmailAddress,

paddr.AddressLine1

ORDER BY SUM(pupordet.LineTotal)

1. List of employees who purchased products with pay rate & raises (SCD)

SELECT CONCAT(prsn.LastName, ' ', prsn.FirstName) AS 'Employee Name',

epayh.Rate,

epayh.ModifiedDate,

epayh.RateChangeDate

FROM HumanResources.Employee AS hremp

JOIN HumanResources.EmployeePayHistory AS epayh ON hremp.BusinessEntityID = epayh.BusinessEntityID

JOIN Person.Person AS prsn ON prsn.BusinessEntityID = hremp.BusinessEntityID

GROUP BY CONCAT(prsn.LastName, ' ', prsn.FirstName),

epayh.Rate,

epayh.ModifiedDate,

epayh.RateChangeDate

ORDER BY epayh.ModifiedDate;

1. List of purchasing vendor contacts with vendor name, phone, email & address

SELECT pvndr.Name,

pvcnt.PhoneNumber,

pvcnt.EmailAddress,

pvaddr.AddressLine1

FROM Purchasing.Vendor AS pvndr

JOIN Purchasing.vVendorWithContacts AS pvcnt ON pvndr.BusinessEntityID = pvcnt.BusinessEntityID

JOIN Purchasing.vVendorWithAddresses AS pvaddr ON pvndr.BusinessEntityID = pvaddr.BusinessEntityID

GROUP BY pvndr.Name,

pvcnt.PhoneNumber,

pvcnt.EmailAddress,

pvaddr.AddressLine1;

1. List of product prices by product order by product and SCD effective ascending

SELECT pprdt.Name,

prhis.ListPrice,

prhis.ModifiedDate

FROM Production.Product AS pprdt

JOIN Production.ProductListPriceHistory AS prhis ON pprdt.ProductID = prhis.ProductID

GROUP BY pprdt.Name,

prhis.ListPrice,

prhis.ModifiedDate

ORDER BY prhis.ModifiedDate asc;

1. List of standard costs by product order by product and SCD effective ascending

SELECT prdt.Name,

costhis.StandardCost,

costhis.ModifiedDate

FROM Production.Product AS prdt

JOIN Production.ProductCostHistory AS costhis ON costhis.ProductID = prdt.ProductID

GROUP BY prdt.Name,

costhis.StandardCost,

costhis.ModifiedDate

ORDER BY costhis.ModifiedDate ASC;

**LIST OF TABLES USED TO ANSWER QUERIES**

Production :

Product

ProductSubcategory

ProductCategory

ProductListPriceHistory

ProductModel

ProductCostHistory

Purchasing:

PurchaseOrderDetail

PurchaseOrderHeader

Vendor

vVendorWithAddresses

vVendorWithContacts

HumanResources:

Employee

EmployeePayHistory

Person:

Person

BusinessEntityAddress

PersonPhone

Address

EmailAddress