1.

Select P.SearchName as PersonName, P.FaxNumber as PersonFax, P.PhoneNumber as PersonNumber, S.PhoneNumber as CompanyNumber, S.FaxNumber as CompanyFax

From WideWorldImporters.Application.People\_Archive as P

LEFT JOIN WideWorldImporters.Purchasing.Suppliers\_Archive as S

on P.PersonID = S.PrimaryContactPersonID or P.PersonID = S.AlternateContactPersonID

2.

Select DISTINCT(CustomerName) from

Sales.Customers right join

(Select P.PhoneNumber

from Sales.Customers as C

left join Application.People as P on C.PrimaryContactPersonID = P.PersonID) as contact

on Sales.Customers.PhoneNumber = contact.PhoneNumber

where CustomerCategoryID != '1'



3.

Select distinct(C.CustomerName)

from Sales.CustomerTransactions as S

left join Sales.Customers as C on C.CustomerID = S.CustomerID

where S.TransactionAmount > 0 and S.TransactionDate < '2016-01-01' and S.CustomerID not in

(Select distinct(S1.CustomerID) from Sales.CustomerTransactions as S1

where S1.TransactionAmount > 0 and S1.TransactionDate >= '2016-01-01')

4.

Select I.StockItemName, ABS(stock.TotalAmount) as TotalAmount from

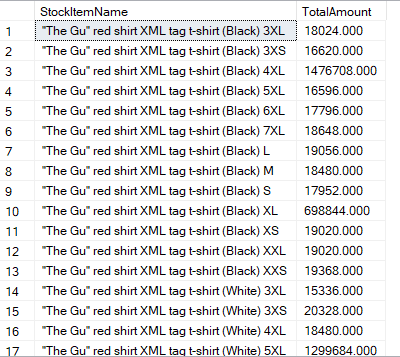
(SELECT StockItemID, sum(Quantity) as TotalAmount, DATEPART(year, TransactionOccurredWhen) as 'Year'

FROM Warehouse.StockItemTransactions as S

group by S.StockItemID, DATEPART(year, S.TransactionOccurredWhen)

having DATEPART(year, S.TransactionOccurredWhen) = 2013) as stock

left join Warehouse.StockItems as I on I.StockItemID = stock.StockItemID



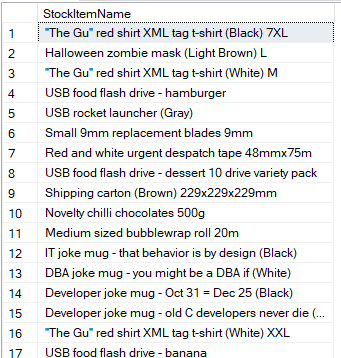
5.

SELECT DISTINCT(S.StockItemName)

FROM Warehouse.StockItems as S

left join Sales.OrderLines as O on S.StockItemID = O.StockItemID

where LEN(O.Description) >= 10



6.

Select DISTINCT(SI.StockItemName)

from Sales.OrderLines as OL left join Sales.Orders as O on OL.OrderID = O.OrderID

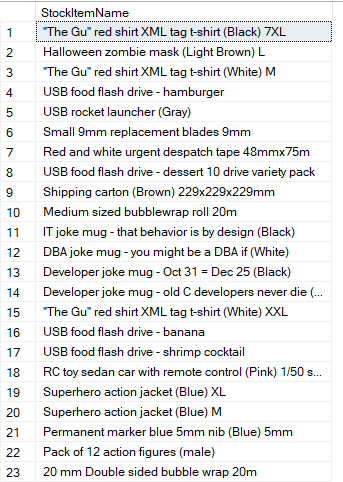
left join Sales.Customers as C on C.CustomerID = O.CustomerID

left join Application.Cities as City on C.PostalCityID = City.CityID

left join Application.StateProvinces as S on S.StateProvinceID = City.StateProvinceID

left join Warehouse.StockItems as SI on SI.StockItemID = OL.StockItemID

where DATEPART(year, O.OrderDate) = 2014 and S.StateProvinceName not in ('Alabama', 'Georgia')



7.

Select S.StateProvinceName, AVG(DATEDIFF(day, O.OrderDate, I.ConfirmedDeliveryTime)) as AVG\_Time

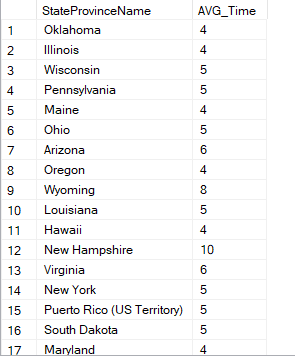
from Sales.Orders as O left join Sales.Invoices as I on O.OrderID = I.OrderID

left join Sales.Customers as C on C.CustomerID = I.CustomerID

left join Application.Cities as City on C.PostalCityID = City.CityID

left join Application.StateProvinces as S on S.StateProvinceID = City.StateProvinceID

group by S.StateProvinceName



8.

Select S.StateProvinceName, DATEPART(month, O.OrderDate) as 'Month', AVG(DATEDIFF(day, O.OrderDate, I.ConfirmedDeliveryTime)) as AVG\_Time

from Sales.Orders as O left join Sales.Invoices as I on O.OrderID = I.OrderID

left join Sales.Customers as C on C.CustomerID = I.CustomerID

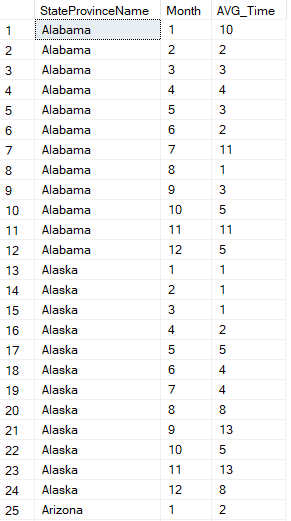
left join Application.Cities as City on C.PostalCityID = City.CityID

left join Application.StateProvinces as S on S.StateProvinceID = City.StateProvinceID

group by S.StateProvinceName, DATEPART(month, O.OrderDate)

having S.StateProvinceName is not null

order by S.StateProvinceName, DATEPART(month, O.OrderDate)



9.

Select Distinct(SI.StockItemName)

from Purchasing.PurchaseOrders as PO

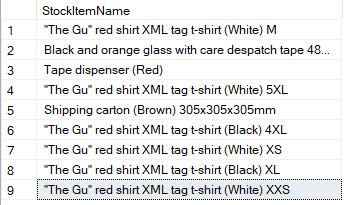
left join Purchasing.PurchaseOrderLines as POL on PO.PurchaseOrderID = POL.PurchaseOrderID

inner join Sales.OrderLines as OL on OL.StockItemID = POL.StockItemID

left join Sales.Orders as O on O.OrderID = OL.OrderID and DATEPART(year, PO.OrderDate) = DATEPART(year, O.OrderDate)

left join Warehouse.StockItems as SI on SI.StockItemID = OL.StockItemID

where POL.OrderedOuters-OL.Quantity>0 and DATEPART(year, PO.OrderDate) = 2015



10.

SELECT DISTINCT(C.CustomerName), C.PhoneNumber, P.FullName as ContactPerson

from Sales.Orders as O

left join Sales.OrderLines as OL on O.OrderID = OL.OrderID

left join Warehouse.StockItems as SI on SI.StockItemID = OL.StockItemID

left join Sales.Customers as C on C.CustomerID = O.CustomerID

left join Application.People as P on P.PersonID = C.PrimaryContactPersonID

where SI.StockItemName like '%mug%' and DATEPART(year, O.OrderDate) = '2016'

group by C.CustomerName, OL.Quantity, C.PhoneNumber, P.FullName

having sum(OL.Quantity) < 10

Graphical user interface, application

Description automatically generated with medium confidence

11.

SELECT DISTINCT(CityName)

from Application.Cities

where ValidFrom > '2015-01-01'



12.

Select SI.StockItemName, I.DeliveryInstructions, S.StateProvinceName, City.CityName, CT.CountryName,

C.CustomerName, P.FullName as ContactName, C.PhoneNumber, OL.Quantity

from Sales.Orders as O left join Sales.Invoices as I on O.OrderID = I.OrderID

left join Sales.OrderLines as OL on OL.OrderID = O.OrderID

left join Warehouse.StockItems as SI on SI.StockItemID = OL.StockItemID

left join Sales.Customers as C on C.CustomerID = I.CustomerID

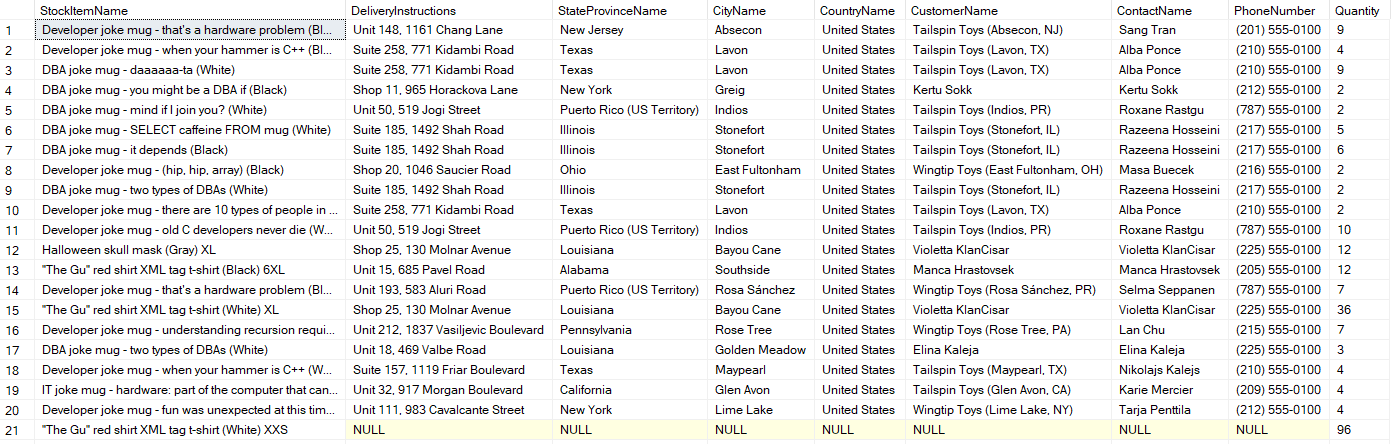
left join Application.Cities as City on C.PostalCityID = City.CityID

left join Application.StateProvinces as S on S.StateProvinceID = City.StateProvinceID

left join Application.Countries as CT on CT.CountryID = S.CountryID

left join Application.People as P on P.PersonID = C.PrimaryContactPersonID

where O.OrderDate = '2014-07-01'



13.

With P as

(SELECT SG.StockGroupID, sum(POL.OrderedOuters) as Purchase

from Purchasing.PurchaseOrderLines as POL

left join Warehouse.StockItemStockGroups as SISG on SISG.StockItemID = POL.StockItemID

left join Warehouse.StockGroups as SG on SG.StockGroupID = SISG.StockGroupID

group by SG.StockGroupID),

S as

(SELECT SG.StockGroupID, sum(OL.Quantity) as Sale

from Sales.OrderLines as OL

left join Warehouse.StockItemStockGroups as SISG on SISG.StockItemID = OL.StockItemID

left join Warehouse.StockGroups as SG on SG.StockGroupID = SISG.StockGroupID

group by SG.StockGroupID)

Select P.StockGroupID, P.Purchase, S.Sale, (P.Purchase - S.Sale) as RemainStock

from P left join S on P.StockGroupID = S.StockGroupID

order by P.StockGroupID

Table

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14.

With O as

(Select I.CustomerPurchaseOrderNumber, count(I.CustomerPurchaseOrderNumber) as 'Count'

from Sales.Invoices as I

group by I.CustomerPurchaseOrderNumber

having count(I.CustomerPurchaseOrderNumber) > 1)

Select I.OrderID, O.Count

from O left join Sales.Invoices as I on O.CustomerPurchaseOrderNumber = I.CustomerPurchaseOrderNumber

Chart

Description automatically generated with medium confidence

15.

16.

Select SI.StockItemName, JSON\_VALUE(SI.CustomFields, '$.CountryOfManufacture') as Country

from Warehouse.StockItems as SI

where JSON\_VALUE(SI.CustomFields, '$.CountryOfManufacture') = 'China'

Text

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17.

Select JSON\_VALUE(SI.CustomFields, '$.CountryOfManufacture') as Country, sum(SIT.Quantity) as TotalSale

from Warehouse.StockItems as SI

left join Warehouse.StockItemTransactions as SIT on SI.StockItemID = SIT.StockItemID

where DATEPART(year, SIT.TransactionOccurredWhen) = 2015

group by JSON\_VALUE(SI.CustomFields, '$.CountryOfManufacture')

Table

Description automatically generated

18.