

# Matrix with Interactive Sorting

<div> <div> <div>1 of 2 ?</div> <div>100%</div> <div>Find   Next</div> </div> </div>										
	Year	2013								
	Month	April		August		December		February		J
State Province	City Name	Count of Transactions	Transaction Amount	Count of Transactions	Transaction Amount	Count of Transactions	Transaction Amount	Count of Transactions	Transaction Amount	C T
Alabama	Bazemore	2	0.00	2	0.00			4	0.00	
	Rogersville									
	Southside	2	0.00	4	0.00	9	0.00	4	0.00	
Alaska	Akhiok			10	0.00	4	0.00	8	0.00	
	Biorka					6	0.00			
	Ekwok	11	0.00	1	-10867.50	4	0.00	5	-1453.37	
	Iliamna	4	0.00			2	0.00	6	0.00	
	Port Chilkoot	4	0.00	7	-320.85	3	774.64			
	Wrangell	3	0.00	2	0.00	2	0.00			
Arizona	Red Mesa	2	0.00	2	0.00	10	0.00	4	0.00	
	Tempe			4	0.00	6	0.00	3	-564.94	
	Walapai	4	0.00	6	-164.45	2	0.00	6	2601.88	
Arkansas	Grannis	5	425.50	4	0.00	2	0.00	4	0.00	
	Greenfield			9	0.00	2	0.00			
	Grider	4	0.00	3	1884.85			8	0.00	
	Reader	2	0.00	4	0.00	5	-4652.90			
	Schaal	4	0.00	6	0.00	4	0.00	4	0.00	
	Wesson			4	0.00	4	0.00			
California	Arrowbear Lake	6	0.00	3	1043.63	10	0.00	3	-3148.70	
	Arrowhead Highlands	15	0.00	2	0.00	4	0.00			
	Biggs									
	Bombay Beach	6	0.00	6	0.00			4	0.00	
	Southside	4	0.00	4	0.00	6	0.00	44	3581.68	

## Script For Matrix

```

SELECT
--Row Groups:
    ,CityID = AC.CityID
    ,CityName = AC.CityName
    ,StateProvinceID = ASP.StateProvinceID
    ,StateProvince = ASP.StateProvinceName
--Column Groups
    ,TransactionDate_Year = YEAR(SCT.TransactionDate)
    ,TransactionDate_MonthID = MONTH(SCT.TransactionDate)
    ,TransactionDate_Month = DATENAME(MONTH,SCT.TransactionDate)
--Details/Aggregates:
    ,TransactionAmount = SUM(SCT.TransactionAmount)
    ,Cnt = SUM(1)
FROM Sales.CustomerTransactions SCT
LEFT JOIN Sales.Customers SC ON SCT.CustomerID = SC.CustomerID
LEFT JOIN Application.Cities AC ON AC.CityID = SC.PostalCityID
LEFT JOIN Application.StateProvinces ASP ON AC.StateProvinceID = ASP.StateProvinceID
LEFT JOIN Application.Countries ACT ON ACT.CountryID = ASP.CountryID
LEFT JOIN Application.TransactionTypes ATT ON ATT.TransactionTypeID = SCT.TransactionTypeID

GROUP BY
    AC.CityID
    ,AC.CityName
    ,ASP.StateProvinceID
    ,ASP.StateProvinceName
    ,YEAR(SCT.TransactionDate)
    ,MONTH(SCT.TransactionDate)
    ,DATENAME(MONTH,SCT.TransactionDate)

```