/\*\*\*\*\*\* Script Date: 05/01/2012 \*\*\*\*\*\*/

USE ConPerf\_LabCorp -- change DB name AS needed

GO

SELECT

machinename,

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

avg(countervalue) AS [% Processor Time],

count(countervalue) AS Counts,

sum(countervalue) AS Sums INTO Avg\_CPU\_PHPM

FROM counterdetails b, counterdata a

WHERE

a.counterid = b.counterid

AND objectname = 'Processor'

AND countername = '% Processor Time'

AND instancename = '\_Total'

--AND machinename like '\\CPWIDI22'

GROUP BY machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

GO

SELECT tbl.[machinename], Avg\_CPU\_PHPM.start\_time,

DATEADD(hh,1, Avg\_CPU\_PHPM.start\_time) AS ENDTime,tbl.[% Processor Time]

INTO MAX\_CPU\_PM

FROM (

SELECT [machinename], MAX([% Processor Time]) AS [% Processor Time]

FROM dbo.Avg\_CPU\_PHPM

--WHERE machinename like '\\AS01'

GROUP BY [machinename] ) AS tbl

INNER JOIN Avg\_CPU\_PHPM ON Avg\_CPU\_PHPM.[% Processor Time] = tbl.[% Processor Time]

GO

-- Disk IO

--SELECT

--a.MachineName,a.[AVG Disk Reads/sec],a.[start\_time],

--b.[AVG Disk Writes/sec],b.[start\_time],

--c.[AVG Disk Transfers/sec],c.[start\_time],

--d.[AVG Disk Read Bytes/sec],d.[start\_time],

--e.[AVG Disk Write Bytes/sec],e.[start\_time],

--f.[AVG Avg. Disk Read Queue Length],f.[start\_time],

--g.[AVG Avg. Disk Write Queue Length],g.[start\_time],

--h.[AVG Avg. Disk sec/Read],h.[start\_time],

--i.[AVG Avg. Disk sec/Write],i.[start\_time]

--FROM

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk Reads/sec],

MAX(countervalue)[Max Disk Reads/sec],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_Reads\_sec

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Disk Reads/sec'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)a FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk Writes/sec],

MAX(countervalue)[Max Disk Writes/sec],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_Writes\_sec

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Disk Writes/sec'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)b on a.MachineName = b.MachineName FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk Transfers/sec],

MAX(countervalue)[Max Disk Transfers/sec],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_Transfers\_sec

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Disk Transfers/sec'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)c

--on a.MachineName = c.MachineName

--FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk Read Bytes/sec],

MAX(countervalue)[Max Disk Read Bytes/sec],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO Avg\_Disk\_Read\_Bytes\_sec

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Disk Read Bytes/sec'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)d

--on a.MachineName = d.MachineName

--FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk Write Bytes/sec],

MAX(countervalue)[Max Disk Write Bytes/sec],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_Write\_Bytes\_sec

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Disk Write Bytes/sec'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)e on a.MachineName = e.MachineName

--FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk Read Queue Length],

MAX(countervalue)[Max Disk Read Queue Length],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_Read\_Queue\_Length

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Avg. Disk Read Queue Length'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)f on a.MachineName = f.MachineName

--FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk Write Queue Length],

MAX(countervalue)[Max Disk Write Queue Length],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_Write\_Queue\_Length

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Avg. Disk Write Queue Length'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)g on a.MachineName = g.MachineName

--FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk sec/Read],

MAX(countervalue)[Max Disk sec/Read],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_sec\_Read

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Avg. Disk sec/Read'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)h on a.MachineName = h.MachineName

--FULL OUTER JOIN

--(

SELECT

b.Machinename, AVG(countervalue)[AVG Disk sec/Write],

MAX(countervalue)[Max Disk sec/Write],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_sec\_Write

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Avg. Disk sec/Write'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

--)i on a.MachineName = i.MachineName

--ORDER BY a.MachineName

SELECT b.Machinename, AVG(countervalue)[AVG Disk Bytes Sec],

MAX(countervalue)[Max Disk Bytes Sec],

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

--avg(countervalue) AS Storage\_Average,

count(countervalue) AS Counts,

sum(countervalue) AS Sums

INTO AVG\_Disk\_Bytes\_sec

FROM counterdata a, counterdetails b

WHERE

a.counterid = b.counterid

--AND b.machinename = c.machinename

AND objectname = 'LogicalDisk'

AND countername = 'Disk Bytes/sec'

AND instancename = '\_Total'

GROUP BY b.machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime)

ORDER BY machinename

GO

SELECT

a.MachineName, a.[AVG Disk Read Bytes/sec], a.[Max Disk Read Bytes/sec], a.start\_time StartTimeDiskReadBytesSec, a.ENDTime ENDTimeDiskReadBytesSec,

b.[AVG Disk Write Bytes/sec], b.[Max Disk Write Bytes/sec], b.start\_time StartTimeMaxDiskWriteBytesSec, b.ENDTime ENDTimeMaxDiskWriteBytesSec,

c.[AVG Disk Reads/sec], c.[Max Disk Reads/sec], c.start\_time StartTimeMaxDiskReadsSec, c.ENDTime ENDTimeMaxDiskReadsSec,

d.[AVG Disk Writes/sec], d.[Max Disk Writes/sec], d.start\_time StartTimeMaxDiskWritesSec, d.ENDTime ENDTimeMaxDiskWritesSec,

e.[AVG Disk sec/Read], e.[Max Disk sec/Read], e.start\_time StartTimeMaxDiskSecRead, e.ENDTime ENDTimeMaxDiskSecRead,

f.[AVG Disk sec/Write], f.[Max Disk sec/Write], f.start\_time StartTimeMaxDiskSecWrite, f.ENDTime ENDTimeMaxDiskSecWrite,

g.[AVG Disk Read Queue Length], g.[Max Disk Read Queue Length], g.start\_time StartTimeMaxDiskReadQueueLength, g.ENDTime ENDTimeMaxDiskReadQueueLength,

h.[AVG Disk Write Queue Length], h.[max Disk Write Queue Length], h.start\_time StartTimeMaxDiskWriteQueueLength, h.ENDTime ENDTimeMaxDiskWriteQueueLength,

i.[AVG Disk Transfers/sec], i.[Max Disk Transfers/sec], i.start\_time StartTimeMaxDiskTransfersSec, i.ENDTime ENDTimeMaxDiskTransfersSec,

j.[AVG Disk Bytes Sec], j.[Max Disk Bytes Sec], j.start\_time StartTimeMaxDiskBytesSec, j.ENDTime ENDTimeMaxDiskBytesSec

INTO STORAGE\_OP

FROM

(SELECT tbl.[machinename],Avg\_Disk\_Read\_Bytes\_sec.start\_time, DATEADD(hh,1, Avg\_Disk\_Read\_Bytes\_sec.start\_time) AS ENDTime,tbl.[AVG Disk Read Bytes/sec],tbl.[Max Disk Read Bytes/sec]

FROM

(SELECT [machinename], MAX([AVG Disk Read Bytes/sec]) AS [AVG Disk Read Bytes/sec],max([MAX Disk Read Bytes/sec]) AS [Max Disk Read Bytes/sec]

FROM dbo.Avg\_Disk\_Read\_Bytes\_sec

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN Avg\_Disk\_Read\_Bytes\_sec ON Avg\_Disk\_Read\_Bytes\_sec.[AVG Disk Read Bytes/sec] = tbl.[AVG Disk Read Bytes/sec]

AND Avg\_Disk\_Read\_Bytes\_sec.[AVG Disk Read Bytes/sec]<>0

) a FULL OUTER JOIN

(

SELECT tbl.[machinename],Avg\_Disk\_Write\_Bytes\_sec.start\_time, DATEADD(hh,1, Avg\_Disk\_Write\_Bytes\_sec.start\_time) AS ENDTime,tbl.[AVG Disk Write Bytes/sec] ,tbl.[Max Disk Write Bytes/sec]

FROM (

SELECT [machinename], MAX([AVG Disk Write Bytes/sec])as [AVG Disk Write Bytes/sec],max([MAX Disk Write Bytes/sec]) AS [Max Disk Write Bytes/sec]

FROM dbo.Avg\_Disk\_Write\_Bytes\_sec

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN Avg\_Disk\_Write\_Bytes\_sec ON Avg\_Disk\_Write\_Bytes\_sec.[AVG Disk Write Bytes/sec] = tbl.[AVG Disk Write Bytes/sec]

AND Avg\_Disk\_Write\_Bytes\_sec.[AVG Disk Write Bytes/sec]<>0

)b ON a.MachineName = b.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_Reads\_sec.start\_time,

DATEADD(hh,1, AVG\_Disk\_Reads\_sec.start\_time) AS ENDTime,tbl.[AVG Disk Reads/sec],tbl.[Max Disk Reads/sec]

FROM (

SELECT [machinename], MAX([AVG Disk Reads/sec])as [AVG Disk Reads/sec],max([MAX Disk Reads/sec]) AS [Max Disk Reads/sec]

FROM dbo.AVG\_Disk\_Reads\_sec

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN AVG\_Disk\_Reads\_sec ON AVG\_Disk\_Reads\_sec.[AVG Disk Reads/sec] = tbl.[AVG Disk Reads/sec]

AND AVG\_Disk\_Reads\_sec.[AVG Disk Reads/sec]<>0

) c ON a.MachineName = c.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_Writes\_sec.start\_time,

DATEADD(hh,1, AVG\_Disk\_Writes\_sec.start\_time) AS ENDTime,tbl.[AVG Disk Writes/sec],tbl.[Max Disk Writes/sec]

FROM (

SELECT [machinename], MAX([AVG Disk Writes/sec])as [AVG Disk Writes/sec],max([MAX Disk Writes/sec]) AS [Max Disk Writes/sec]

FROM dbo.AVG\_Disk\_Writes\_sec

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN AVG\_Disk\_Writes\_sec ON AVG\_Disk\_Writes\_sec.[AVG Disk Writes/sec] = tbl.[AVG Disk Writes/sec]

AND AVG\_Disk\_Writes\_sec.[AVG Disk Writes/sec] <>0

)d ON a.MachineName = d.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_sec\_Read.start\_time,

DATEADD(hh,1, AVG\_Disk\_sec\_Read.start\_time) AS ENDTime,tbl.[AVG Disk sec/Read] ,tbl.[Max Disk sec/Read]

FROM (

SELECT [machinename], MAX([AVG Disk sec/Read]) AS [AVG Disk sec/Read],max([MAX Disk sec/Read]) AS [Max Disk sec/Read]

FROM dbo.AVG\_Disk\_sec\_Read

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN AVG\_Disk\_sec\_Read ON AVG\_Disk\_sec\_Read.[AVG Disk sec/Read] = tbl.[AVG Disk sec/Read]

AND AVG\_Disk\_sec\_Read.[AVG Disk sec/Read]<>0

)e ON a.MachineName = e.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_sec\_Write.start\_time,

DATEADD(hh,1, AVG\_Disk\_sec\_Write.start\_time) AS ENDTime,tbl.[AVG Disk sec/Write] ,tbl.[Max Disk sec/Write]

FROM (

SELECT [machinename], MAX([AVG Disk sec/Write])as [AVG Disk sec/Write],max([MAX Disk sec/Write]) AS [Max Disk sec/Write]

FROM dbo.AVG\_Disk\_sec\_Write

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN AVG\_Disk\_sec\_Write ON AVG\_Disk\_sec\_Write.[AVG Disk sec/Write] = tbl.[AVG Disk sec/Write]

AND AVG\_Disk\_sec\_Write.[AVG Disk sec/Write]<>0

)f ON a.MachineName = f.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_Read\_Queue\_Length.start\_time, DATEADD(hh,1, AVG\_Disk\_Read\_Queue\_Length.start\_time) AS ENDTime,tbl.[AVG Disk Read Queue Length] ,tbl.[Max Disk Read Queue Length]

FROM (

SELECT [machinename], MAX([AVG Disk Read Queue Length]) AS [AVG Disk Read Queue Length],max([MAX Disk Read Queue Length]) AS [Max Disk Read Queue Length]

FROM dbo.AVG\_Disk\_Read\_Queue\_Length

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN AVG\_Disk\_Read\_Queue\_Length ON AVG\_Disk\_Read\_Queue\_Length.[AVG Disk Read Queue Length] = tbl.[AVG Disk Read Queue Length]

AND AVG\_Disk\_Read\_Queue\_Length.[AVG Disk Read Queue Length]<>0

)g ON a.MachineName = g.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_Write\_Queue\_Length.start\_time,

DATEADD(hh,1, AVG\_Disk\_Write\_Queue\_Length.start\_time) AS ENDTime,tbl.[AVG Disk Write Queue Length] ,tbl.[max Disk Write Queue Length]

FROM (

SELECT [machinename], MAX([AVG Disk Write Queue Length]) AS [AVG Disk Write Queue Length],MAX([MAX Disk Write Queue Length]) AS [max Disk Write Queue Length]

FROM dbo.AVG\_Disk\_Write\_Queue\_Length

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN AVG\_Disk\_Write\_Queue\_Length ON AVG\_Disk\_Write\_Queue\_Length.[AVG Disk Write Queue Length] = tbl.[AVG Disk Write Queue Length]

AND AVG\_Disk\_Write\_Queue\_Length.[AVG Disk Write Queue Length]<>0

)h ON a.MachineName = h.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_Transfers\_sec.start\_time,

DATEADD(hh,1, AVG\_Disk\_Transfers\_sec.start\_time) AS ENDTime,tbl.[AVG Disk Transfers/sec] , tbl.[Max Disk Transfers/sec]

FROM (

SELECT [machinename], MAX([AVG Disk Transfers/sec]) AS [AVG Disk Transfers/sec],max([MAX Disk Transfers/sec]) AS [Max Disk Transfers/sec]

FROM dbo.AVG\_Disk\_Transfers\_sec

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN AVG\_Disk\_Transfers\_sec ON AVG\_Disk\_Transfers\_sec.[AVG Disk Transfers/sec] = tbl.[AVG Disk Transfers/sec]

AND AVG\_Disk\_Transfers\_sec.[AVG Disk Transfers/sec]<>0

)i ON a.MachineName = i.MachineName FULL OUTER JOIN

(

SELECT tbl.[machinename],AVG\_Disk\_Bytes\_sec.start\_time,

DATEADD(hh,1, AVG\_Disk\_Bytes\_sec.start\_time) AS ENDTime,tbl.[AVG Disk Bytes Sec], tbl.[Max Disk Bytes Sec]

FROM

(SELECT [machinename], MAX([AVG Disk Bytes Sec]) AS [AVG Disk Bytes Sec],max([Max Disk Bytes Sec]) AS [Max Disk Bytes Sec]

FROM dbo.AVG\_Disk\_Bytes\_sec

--WHERE machinename like '\\AS01'

GROUP BY [machinename]) AS tbl

INNER JOIN AVG\_Disk\_Bytes\_sec ON AVG\_Disk\_Bytes\_sec.[AVG Disk Bytes Sec] = tbl.[AVG Disk Bytes Sec]

AND AVG\_Disk\_Bytes\_sec.[AVG Disk Bytes Sec]<>0

)j ON a.MachineName = j.MachineName

GO

SELECT \* INTO TIER\_Allin2 FROM

( SELECT \* FROM

(SELECT

c.MachineName,

AVG(COUNTERVALUE)AvgProcCounterValue,'ProcessorUtil' AS COUNTER\_NAME1

,CASE

WHEN (AVG(COUNTERVALUE) > 50.0 AND AVG(COUNTERVALUE) <= 100.0) THEN '1'

WHEN (AVG(COUNTERVALUE) >= 25.0 AND AVG(COUNTERVALUE) <= 50.0) THEN '2'

ELSE '3'

END AS ProcessorUtilTIER, '1' Arrange1

FROM

CounterData a, counterdetails b, MAX\_CPU\_PM c

WHERE

a.counterid = b.counterid AND b.MachineName = c.MachineName

--AND counterdatetime BETWEEN @start\_time AND @ENDtime --@starttime AND @ENDtime

AND counterdatetime BETWEEN c.start\_time AND c.ENDtime --@starttime AND @ENDtime

AND objectname = 'Processor'

AND countername = '% Processor Time'

AND instancename = '\_Total'

GROUP BY c.MachineName

) AS ProcessorUtil LEFT OUTER JOIN

-- SET 2 PageLifeExpectancy

(

SELECT c.Machinename AS machinename2,

AVG(COUNTERVALUE)AvgPLECounterValue,'PageLifeExpectancy' AS COUNTER\_NAME2

,CASE

WHEN convert(decimal(28,2), AVG(COUNTERVALUE)) > 0.0 AND convert(decimal(28,2), AVG(COUNTERVALUE)) <= 600.0 THEN '1'

WHEN convert(decimal(28,2), AVG(COUNTERVALUE)) > 600.0 AND convert(decimal(28,2), AVG(COUNTERVALUE)) <= 1500.0 THEN '2'

ELSE '3'

END AS PLETIER, '2' Arrange2

FROM

CounterData a, counterdetails b, MAX\_CPU\_PM c

WHERE

a.counterid = b.counterid

AND b.MachineName = c.MachineName

AND counterdatetime BETWEEN c.start\_time AND c.ENDtime

AND countername like '%Page life expectancy'

GROUP BY c.MachineName

) PageLifeExpectancy ON ProcessorUtil.Machinename = PageLifeExpectancy.machinename2

LEFT OUTER JOIN

---- SET 3 ContextSwitches

---- ContextSwitches: someday would like to modify code to add dividing by cores

---- One approach would be to add core\_count per machine to the CPUFACTOR table and use that value here as a diviser

-- [RED line is ContextSwitches of 5,000 per core]

(

SELECT

c.Machinename AS machinename3,

AVG(COUNTERVALUE)AvgContextSwitchesCounterValue,'ContextSwitches' AS COUNTER\_NAME3

,CASE

WHEN convert(decimal(28,2), AVG(COUNTERVALUE) / nullif(max(LProc),0)) >= 5000.0 THEN '1'

WHEN convert(decimal(28,2), AVG(COUNTERVALUE) / nullif(max(LProc),0)) >= 3000.0 AND convert(decimal(28,2), AVG(COUNTERVALUE) / nullif(max(LProc),0)) < 5000.0 THEN '2'

ELSE '3'

END AS ContextSwitchesTIER, '3' Arrange3

FROM

CounterData a, counterdetails b, MAX\_CPU\_PM c,

(SELECT machinename, COUNT(instancename)LProc

FROM CounterDetails

WHERE objectname = 'Processor'

AND CounterName = '% Processor Time'

AND InstanceName = '\_Total'

GROUP BY MachineName)D

WHERE

a.counterid = b.counterid AND b.MachineName = c.MachineName

AND c.machinename = D.MachineName

AND counterdatetime BETWEEN c.start\_time AND c.ENDtime

AND b.objectname ='System'

AND b.countername ='Context Switches/sec'

GROUP BY c.MachineName

)ContextSwitches ON ProcessorUtil.Machinename = ContextSwitches.machinename3

LEFT OUTER JOIN

---- SET 4 ProcessorQueueLength

---- ProcessorQueueLength: someday would like to modify code to add dividing by cores

-- One approach would be to add core\_count per machine to the CPUFACTOR table and use that value here as a diviser

-- [RED line is ProcessorQueueLength of 2 per core]

(

SELECT

c.MachineName AS machinename4

, AVG(COUNTERVALUE)AvgProcessorQueueLengthCounterValue,'ProcessorQueueLength' AS COUNTER\_NAME4

,CASE

WHEN convert(decimal(28,2), ISNULL(AVG(COUNTERVALUE),0) / nullif(max(LProc),0)) > 5.0 THEN '1'

WHEN convert(decimal(28,2), ISNULL(AVG(COUNTERVALUE),0) / nullif(max(LProc),0)) >= 2.0 AND convert(decimal(28,2), isnull(AVG(COUNTERVALUE),0) / nullif(max(LProc),0)) <= 5.0 THEN '2'

ELSE '3'

END AS PQLTIER, '4' Arrange4

FROM

CounterData a, counterdetails b, dbo.MAX\_CPU\_PM c,

(SELECT machinename, COUNT(instancename)LProc

FROM CounterDetails WHERE objectname = 'Processor'

AND CounterName = '% Processor Time'

AND InstanceName = '\_Total'

GROUP BY MachineName)D

WHERE

a.counterid = b.counterid

AND b.MachineName = c.MachineName

AND c.machinename = D.MachineName

AND counterdatetime BETWEEN c.start\_time AND c.ENDtime

AND b.objectname ='System'

AND b.countername = 'Processor Queue Length'

GROUP BY c.MachineName

)ProcessorQueueLength ON ProcessorUtil.Machinename = ProcessorQueueLength.machinename4

LEFT OUTER JOIN

---- SET 5 DiskSecRead

(

SELECT

c.MachineName AS machinename5

, AVG(COUNTERVALUE)AvgDiskSecReadCounterValue,'DiskSecRead' AS COUNTER\_NAME5

,CASE

WHEN (AVG(COUNTERVALUE\*1000) > 20.0 AND AVG(COUNTERVALUE\*1000) <= 40.0) THEN '2'

WHEN (AVG(COUNTERVALUE\*1000) > 40.0) THEN '1'

ELSE '3'

END AS DiskSecReadTIER , '5' Arrange5

FROM

CounterData a, counterdetails b, dbo.storage\_OP c

WHERE

a.counterid = b.counterid AND b.MachineName = c.MachineName

AND counterdatetime BETWEEN c.StartTimeMaxDiskSecRead AND c.ENDTimeMaxDiskSecRead

AND b.objectname ='LogicalDisk'

AND b.countername = 'Avg. Disk sec/Read'

AND b.instancename = '\_Total'

GROUP BY c.MachineName

)DiskSecRead ON ProcessorUtil.Machinename = DiskSecRead.machinename5

LEFT OUTER JOIN

(

SELECT

c.MachineName AS machinename6

, AVG(COUNTERVALUE)AvgDiskSecWriteCounterValue,'DiskSecWrite' AS COUNTER\_NAME6

,CASE

WHEN (AVG(COUNTERVALUE\*1000) > 20.0 AND AVG(COUNTERVALUE\*1000) <= 40.0) THEN '2'

WHEN (AVG(COUNTERVALUE\*1000) > 40.0) THEN '1'

ELSE '3'

END AS DiskSecWriteTIER, '6' Arrange6

FROM

CounterData a, counterdetails b, dbo.storage\_OP c

WHERE

a.counterid = b.counterid AND b.MachineName = c.MachineName

AND counterdatetime BETWEEN c.StartTimeMaxDiskSecWrite AND c.ENDTimeMaxDiskSecWrite

AND b.objectname ='LogicalDisk'

AND b.countername = 'Avg. Disk sec/Write'

AND b.instancename = '\_Total'

GROUP BY c.MachineName

)DiskSecWrite ON ProcessorUtil.machinename = DiskSecWrite.machinename6

) AS tbl2

RIGHT JOIN

/\*to find Logical Count\*/

(

SELECT b.machinename machinenamelproc, count(InstanceName) Lproc

FROM dbo.CounterDetails a, dbo.MAX\_CPU\_PM b

WHERE ObjectName = 'Processor'

AND CounterName = '% Processor Time'

AND InstanceName= '\_Total'

AND a.MachineName = b.machinename

GROUP BY b.machinename) AS tbl1

ON tbl1.machinenamelproc = tbl2.machinename

GO

SELECT

[MachineName],

[LProc]

,[AvgProcCounterValue]

,[COUNTER\_NAME1]

,[ProcessorUtilTIER]

--,[Arrange]

--,[Machinename1]

,[AvgPLECounterValue]

,[COUNTER\_NAME2]

,[PLETIER]

--,[Arrange1]

--,[Machinename2]

,[AvgContextSwitchesCounterValue]

,[COUNTER\_NAME3]

,[ContextSwitchesTIER]

--,[Arrange2]

--,[MachineName3]

,[AvgProcessorQueueLengthCounterValue]

,[COUNTER\_NAME4]

,[PQLTIER]

--,[Arrange3]

--,[MachineName4]

,[AvgDiskSecReadCounterValue]

,[COUNTER\_NAME5]

,[DiskSecReadTIER]

--,[Arrange4]

--,[MachineName5]

,[AvgDiskSecWriteCounterValue]

,[COUNTER\_NAME6]

,[DiskSecWriteTIER]

--,[Arrange5]

INTO TIER1

FROM [dbo].TIER\_Allin2

WHERE

[ProcessorUtilTIER] = 1

OR [PLETIER] = 1

OR [ContextSwitchesTIER] = 1

OR [PQLTIER] = 1

OR [DiskSecReadTIER] = 1

OR [DiskSecWriteTIER] = 1

GO

/\*\*\*\*\*\*TIER 3 \*\*\*\*\*\*/

SELECT

[MachineName],

[LProc]

,[AvgProcCounterValue]

,[COUNTER\_NAME1]

,[ProcessorUtilTIER]

--,[Arrange]

--,[Machinename1]

,[AvgPLECounterValue]

,[COUNTER\_NAME2]

,[PLETIER]

--,[Arrange1]

--,[Machinename2]

,[AvgContextSwitchesCounterValue]

,[COUNTER\_NAME3]

,[ContextSwitchesTIER]

--,[Arrange2]

--,[MachineName3]

,[AvgProcessorQueueLengthCounterValue]

,[COUNTER\_NAME4]

,[PQLTIER]

--,[Arrange3]

--,[MachineName4]

,[AvgDiskSecReadCounterValue]

,[COUNTER\_NAME5]

,[DiskSecReadTIER]

--,[Arrange4]

--,[MachineName5]

,[AvgDiskSecWriteCounterValue]

,[COUNTER\_NAME6]

,[DiskSecWriteTIER]

--,[Arrange5]

INTO TIER3

FROM [dbo].TIER\_Allin2

WHERE

[ProcessorUtilTIER] = 3

AND [PLETIER] = 3

AND [ContextSwitchesTIER] = 3

AND [PQLTIER] = 3

AND [DiskSecReadTIER] = 3

AND [DiskSecWriteTIER] = 3

--------------------------------------------------

/\*\*\*\*\*\*TIER 2 \*\*\*\*\*\*/

SELECT

[MachineName],

[LProc]

,[AvgProcCounterValue]

,[COUNTER\_NAME1]

,[ProcessorUtilTIER]

--,[Arrange]

--,[Machinename1]

,[AvgPLECounterValue]

,[COUNTER\_NAME2]

,[PLETIER]

--,[Arrange1]

--,[Machinename2]

,[AvgContextSwitchesCounterValue]

,[COUNTER\_NAME3]

,[ContextSwitchesTIER]

--,[Arrange2]

--,[MachineName3]

,[AvgProcessorQueueLengthCounterValue]

,[COUNTER\_NAME4]

,[PQLTIER]

--,[Arrange3]

--,[MachineName4]

,[AvgDiskSecReadCounterValue]

,[COUNTER\_NAME5]

,[DiskSecReadTIER]

--,[Arrange4]

--,[MachineName5]

,[AvgDiskSecWriteCounterValue]

,[COUNTER\_NAME6]

,[DiskSecWriteTIER]

--,[Arrange5]

INTO TIER2

FROM [dbo].TIER\_Allin2

WHERE [MachineName] NOT IN

(

SELECT [MachineName]

FROM [dbo].TIER\_Allin2

WHERE

[ProcessorUtilTIER] = 3

AND [PLETIER] = 3

AND [ContextSwitchesTIER] = 3

AND [PQLTIER] = 3

AND [DiskSecReadTIER] = 3

AND [DiskSecWriteTIER] = 3

)

AND [MachineName] NOT IN

(

SELECT [MachineName]

FROM [dbo].TIER\_Allin2

WHERE

[ProcessorUtilTIER] = 1

OR [PLETIER] = 1

OR [ContextSwitchesTIER] = 1

OR [PQLTIER] = 1

OR [DiskSecReadTIER] = 1

OR [DiskSecWriteTIER] = 1

)

GO

SELECT MachineName,start\_time,sum([Bytes/Sec]) AS [TotalBytesSec]

INTO Avg\_NW\_Bytes\_PHPM

FROM

(SELECT machinename,InstanceName,

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

avg(countervalue) AS [Bytes/sec],

count(countervalue) AS Counts,

sum(countervalue) AS Sums

FROM counterdetails b, counterdata a

WHERE

a.counterid = b.counterid

AND

--objectname = 'Processor' AND

--countername = 'Bytes Total/sec'

countername = 'Bytes Total/sec'

--AND instancename = '\_Total'

--AND machinename like '\\CPWIDI22'

GROUP BY machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime),InstanceName

) u

GROUP BY MachineName,start\_time

GO

SELECT tbl.[machinename],Avg\_NW\_Bytes\_PHPM.start\_time, DATEADD(hh,1, Avg\_NW\_Bytes\_PHPM.start\_time) AS ENDTime,tbl.TotalBytesSec

INTO Max\_NW\_Bytes\_PHPM

FROM (

SELECT [machinename], MAX(TotalBytesSec) AS TotalBytesSec

FROM dbo.Avg\_NW\_Bytes\_PHPM WHERE TotalBytesSec<>0

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN Avg\_NW\_Bytes\_PHPM ON Avg\_NW\_Bytes\_PHPM.TotalBytesSec = tbl.TotalBytesSec

GO

SELECT MachineName,start\_time,sum([Packets/Sec]) AS [TotalPackectsSec]

INTO Avg\_NW\_Packets\_PHPM

FROM

(SELECT machinename,InstanceName,

cast(Datepart(year,CounterDateTime) AS varchar(5)) + '/' + cast(Datepart(Month,CounterDateTime) AS varchar(5)) + '/' +

cast(Datepart(day,CounterDateTime) AS varchar(5)) + ' ' + cast(Datepart(HH,CounterDateTime) AS varchar(5)) + ':00:00' AS start\_time,

--Datepart(hour,CounterDateTime) AS hour,

avg(countervalue) AS [Packets/sec],

count(countervalue) AS Counts,

sum(countervalue) AS Sums

FROM counterdetails b, counterdata a

WHERE

a.counterid = b.counterid

AND

--objectname = 'Processor' AND

--countername = 'Bytes Total/sec'

countername = 'Packets/sec'

--AND instancename = '\_Total'

--AND machinename like '\\CPWIDI22'

GROUP BY machinename, Datepart(year,CounterDateTime),Datepart(Month,CounterDateTime),

Datepart(day,CounterDateTime), Datepart(hour,CounterDateTime),InstanceName

) u

GROUP BY MachineName,start\_time

GO

SELECT tbl.[machinename],Avg\_NW\_Packets\_PHPM.start\_time, DATEADD(hh,1, Avg\_NW\_Packets\_PHPM.start\_time) AS ENDTime,tbl.TotalPackectsSec

INTO Max\_NW\_Packets\_PHPM

FROM (

SELECT [machinename], MAX(TotalPackectsSec) AS TotalPackectsSec

FROM dbo.Avg\_NW\_Packets\_PHPM WHERE TotalPackectsSec<>0

--WHERE machinename like '\\AS01'

GROUP BY [machinename]

) AS tbl INNER JOIN Avg\_NW\_Packets\_PHPM ON Avg\_NW\_Packets\_PHPM.TotalPackectsSec = tbl.TotalPackectsSec

GO

-- Now time to pull out the data we have aggregated

SELECT 'CPU\_PHPM' AS [Average for the HEAVIEST Hour]

SELECT \* FROM dbo.MAX\_CPU\_PM

ORDER BY machinename

GO

SELECT 'NW\_Packets\_PHPM' AS [Average for the HEAVIEST Hour]

SELECT \* FROM dbo.Max\_NW\_Packets\_PHPM

ORDER BY machinename

GO

SELECT 'NW\_Bytes\_PHPM' AS [Average for the HEAVIEST Hour]

SELECT \* FROM dbo.Max\_NW\_Bytes\_PHPM

ORDER BY machinename

GO

SELECT 'STORAGE\_OP'

SELECT \* FROM dbo.STORAGE\_OP

ORDER BY machinename

GO

SELECT 'TIER1' AS [Divide ContextSwitches & ProcessorQueueLength by # of cores]

SELECT 'TIER1' AS [RED lines are ::: ContextSwitches 5,000/core ::: ProcessorQueueLength 2/core]

SELECT \* FROM dbo.TIER1

ORDER BY machinename

GO

SELECT 'TIER2' AS [Divide ContextSwitches & ProcessorQueueLength by # of cores]

SELECT 'TIER2' AS [YELLOW lines are ::: ContextSwitches 3,000/core ::: ProcessorQueueLength 2/core]

SELECT \* FROM dbo.TIER2

ORDER BY machinename

GO

SELECT 'TIER3'

SELECT \* FROM dbo.TIER3

ORDER BY machinename

GO

SELECT 'TIER\_Allin2' AS [Divide ContextSwitches & ProcessorQueueLength by # of cores]

SELECT 'TIER\_Allin2' AS [RED lines are ::: ContextSwitches 5,000/core ::: ProcessorQueueLength 2/core]

SELECT 'TIER\_Allin2' AS [YELLOW lines are ::: ContextSwitches 3,000/core ::: ProcessorQueueLength 1/core]

SELECT \* FROM dbo.TIER\_Allin2

ORDER BY machinename

GO