-- \*\* CounterDateTime, varchar to smalldatetime \*\* --

BEGIN TRANSACTION

GO

-- ALTER TABLE dbo.Tmp\_CounterData SET (LOCK\_ESCALATION = TABLE)

GO

SELECT

[GUID],

[CounterID],

[RecordIndex],

CONVERT( SMALLDATETIME, CONVERT( VARCHAR(23), [CounterDateTime])) [CounterDateTime],

[CounterValue] ,

[FirstValueA],

[FirstValueB],

[SecondValueA],

[SecondValueB],

[MultiCount]

INTO Tmp\_CounterData

FROM CounterData WITH (HOLDLOCK TABLOCKX)

GO

/\*\*\*\*\*\*\*\*\*\*\*\*\* Drop Old Table \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

IF EXISTS (SELECT \* FROM sys.objects WHERE object\_id = OBJECT\_ID(N'[dbo].[CounterData]') AND type in (N'U'))

DROP TABLE [dbo].[CounterData]

GO

/\*\*\*\*\*\*\*\*\*\*\*\*\* Rename New Table \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

EXECUTE [dbo].[sp\_rename] 'Tmp\_CounterData', 'CounterData'

GO

COMMIT

-- rollback

-- \*\* Create Index \*\* --

-- Time taken --> 48:55

CREATE CLUSTERED INDEX [pk\_counterdata] ON [dbo].[CounterData]

(

[CounterID] ASC

) ON [PRIMARY]

go

-- Time taken --> 22:29

CREATE NONCLUSTERED INDEX [idx\_counterdata\_guid] ON [dbo].[CounterData]

(

[CounterValue] ASC

) ON [PRIMARY]

go

-- Time taken --> 21:55

CREATE NONCLUSTERED INDEX [idx\_counterdatatime] ON [dbo].[CounterData]

(

[CounterDateTime] ASC

) ON [PRIMARY]

GO

IF EXISTS (SELECT \* FROM sys.objects WHERE object\_id = OBJECT\_ID(N'[dbo].[CPUFactor]'))

DROP TABLE [dbo].[CPUFactor]

GO

CREATE TABLE [dbo].[CPUFactor](

[ServerName] [nvarchar](255) NULL,

[CPUFactor] numeric(8, 7) NULL

) ON [PRIMARY];

GO

/\*\*\*\*\*\* Object: View [dbo].[PPFactCounterHourlyAvg] Script Date: 04/10/2012 10:19:14 \*\*\*\*\*\*/

IF EXISTS (SELECT \* FROM sys.views WHERE object\_id = OBJECT\_ID(N'[dbo].[PPFactCounterHourlyAvg]'))

DROP VIEW [dbo].[PPFactCounterHourlyAvg]

GO

CREATE VIEW dbo.PPFactCounterHourlyAvg

as

SELECT S.CounterID,S.CounterHourID,AVG(S.CounterValue) AvgHourlyCounterValue

FROM

(SELECT CounterData.CounterID,

CAST((CAST(DATEPART("yy",CounterData.CounterDateTime)AS VARCHAR)+

CAST(DATEPART("mm",CounterData.CounterDateTime) AS VARCHAR)+

CAST(DATEPART("dd",CounterData.CounterDateTime) AS VARCHAR)+

CAST(DATEPART("hh",CounterData.CounterDateTime) AS VARCHAR)) AS BIGINT) CounterHourID,

CounterData.CounterValue CounterValue

FROM CounterData ) S

GROUP BY S.CounterID,S.CounterHourID

GO

/\*\*\*\*\*\* Object: View [dbo].[PPDimCounterGenric] Script Date: 04/10/2012 10:19:14 \*\*\*\*\*\*/

IF EXISTS (SELECT \* FROM sys.views WHERE object\_id = OBJECT\_ID(N'[dbo].[PPDimCounterGenric]'))

DROP VIEW [dbo].[PPDimCounterGenric]

GO

CREATE VIEW dbo.PPDimCounterGenric

as

SELECT ROW\_NUMBER() OVER(ORDER BY COUNTER ASC) CounterGenericID,COUNTER, ObjectName,CounterName,InstanceName

FROM

(SELECT DISTINCT ( CounterDetails.CounterName+' '+

ISNULL(CounterDetails.InstanceName,'')+' ('+

CounterDetails.ObjectName+')') AS COUNTER,CounterDetails.ObjectName ObjectName,

CounterDetails.CounterName CounterName,

CounterDetails.InstanceName InstanceName

FROM dbo.CounterDetails) A

GROUP BY A.COUNTER,A.ObjectName,A.CounterName,A.InstanceName

GO

/\*\*\*\*\*\* Object: View [dbo].[PPDimCounterMachine] Script Date: 04/10/2012 10:19:14 \*\*\*\*\*\*/

IF EXISTS (SELECT \* FROM sys.views WHERE object\_id = OBJECT\_ID(N'[dbo].[PPDimCounterMachine]'))

DROP VIEW [dbo].[PPDimCounterMachine]

GO

CREATE VIEW dbo.PPDimCounterMachine

as

SELECT B.CounterGenericID,C.CounterID,REPLACE(MachineName,'\','') MachineName

FROM

(SELECT ROW\_NUMBER() OVER(ORDER BY COUNTER ASC) CounterGenericID,COUNTER

FROM

(SELECT DISTINCT ( CounterDetails.CounterName+' '+

ISNULL(CounterDetails.InstanceName,'')+' ('+

CounterDetails.ObjectName+')') AS COUNTER

FROM dbo.CounterDetails) A

GROUP BY A.COUNTER) B INNER JOIN

(SELECT CounterID,( CounterDetails.CounterName+' '+

ISNULL(CounterDetails.InstanceName,'')+' ('+

CounterDetails.ObjectName+')') AS COUNTER,MachineName

FROM dbo.CounterDetails) C ON B.COUNTER=C.COUNTER

GO

/\*\*\*\*\*\* Object: View [dbo].[PPDimCounterCaptureHour] Script Date: 04/10/2012 10:19:14 \*\*\*\*\*\*/

IF EXISTS (SELECT \* FROM sys.views WHERE object\_id = OBJECT\_ID(N'[dbo].[PPDimCounterCaptureHour]'))

DROP VIEW [dbo].[PPDimCounterCaptureHour]

GO

CREATE VIEW dbo.PPDimCounterCaptureHour

as

SELECT DISTINCT CAST((CAST(DATEPART("yy",CounterData.CounterDateTime)AS VARCHAR)+

CAST(DATEPART("mm",CounterData.CounterDateTime) AS VARCHAR)+

CAST(DATEPART("dd",CounterData.CounterDateTime) AS VARCHAR)+

CAST(DATEPART("hh",CounterData.CounterDateTime) AS VARCHAR)) AS BIGINT) CounterHourID ,

CAST(CounterData.CounterDateTime AS DATE) CaptureDate,

CAST(DATEPART("hh",CounterData.CounterDateTime) AS TINYINT) CaptureHour

FROM CounterData

GO

/\*\*\*\*\*\* Object: View [dbo].[PPFactCPUCounterHourlyAvg] Script Date: 04/10/2012 10:19:14 \*\*\*\*\*\*/

IF EXISTS (SELECT \* FROM sys.views WHERE object\_id = OBJECT\_ID(N'[dbo].[PPFactCPUCounterHourlyAvg]'))

DROP VIEW [dbo].[PPFactCPUCounterHourlyAvg]

GO

CREATE VIEW dbo.PPFactCPUCounterHourlyAvg

as

SELECT D.CounterID,D.CounterHourID,(D.AvgHourlyCounterValue\*Y.CPUFactor) CPUFactorAvgHourlyCounterValue

FROM

(SELECT S.CounterID,S.CounterHourID,AVG(S.CounterValue) AvgHourlyCounterValue

FROM

(SELECT CounterData.CounterID,

CAST((CAST(DATEPART("yy",CounterData.CounterDateTime)AS VARCHAR)+

CAST(DATEPART("mm",CounterData.CounterDateTime) AS VARCHAR)+

CAST(DATEPART("dd",CounterData.CounterDateTime) AS VARCHAR)+

CAST(DATEPART("hh",CounterData.CounterDateTime) AS VARCHAR)) AS BIGINT) CounterHourID,

CounterData.CounterValue CounterValue

FROM CounterData ) S

GROUP BY S.CounterID,S.CounterHourID) D

INNER JOIN

(Select K.CounterID,CPUFactor from CPUFactor

INNER JOIN

(SELECT CounterID,MachineName

FROM dbo.CounterDetails

WHERE CounterDetails.ObjectName='Processor'

AND CounterDetails.CounterName='% Processor Time'

AND CounterDetails.InstanceName='\_Total')K

ON CPUFactor.ServerName=K.MachineName)Y

ON D.CounterID=Y.CounterID

GO