### Compress All Tables & Indexes in a DB – SQL Server.

<https://sites.google.com/site/williambrownw/it/sql-server/handy-sql/compress-all-tables-and-indexes-in-a-database>

**Scenario-1: This EXECUTES & ENABLES all Tables & Indexes Compression at PAGE Level**

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**Run in the database that will be compressed with CONDITION DATA\_COMPRESSION=PAGE**

\*/

use AdventureWorks2012 --CHANGE YOUR DBNAME HERE TO COMPRESS Table & Indexes with CONDITION DATA\_COMPRESSION=PAGE

go

DECLARE @sqlcmd nvarchar(1000)

DECLARE compress\_cursor CURSOR FOR

SELECT DISTINCT 'ALTER TABLE ' + '[' + s.[name] + ']'+'.' + '[' + o.[name] + ']' + ' REBUILD WITH (DATA\_COMPRESSION=PAGE);'

FROM sys.objects AS o WITH (NOLOCK)

INNER JOIN sys.indexes AS i WITH (NOLOCK)

ON o.[object\_id] = i.[object\_id]

INNER JOIN sys.schemas AS s WITH (NOLOCK)

ON o.[schema\_id] = s.[schema\_id]

INNER JOIN sys.dm\_db\_partition\_stats AS ps WITH (NOLOCK)

ON i.[object\_id] = ps.[object\_id]

AND ps.[index\_id] = i.[index\_id]

WHERE o.[type] = 'U'

UNION ALL

SELECT 'ALTER INDEX '+ '[' + i.[name] + ']' + ' ON ' + '[' + s.[name] + ']' + '.' + '[' + o.[name] + ']' + ' REBUILD WITH (DATA\_COMPRESSION=PAGE);'

FROM sys.objects AS o WITH (NOLOCK)

INNER JOIN sys.indexes AS i WITH (NOLOCK)

ON o.[object\_id] = i.[object\_id]

INNER JOIN sys.schemas s WITH (NOLOCK)

ON o.[schema\_id] = s.[schema\_id]

INNER JOIN sys.dm\_db\_partition\_stats AS ps WITH (NOLOCK)

ON i.[object\_id] = ps.[object\_id]

AND ps.[index\_id] = i.[index\_id]

WHERE o.type = 'U' AND i.[index\_id] >0

OPEN compress\_cursor;

FETCH NEXT FROM compress\_cursor INTO @sqlcmd

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @sqlcmd

EXEC sp\_executesql @sqlcmd

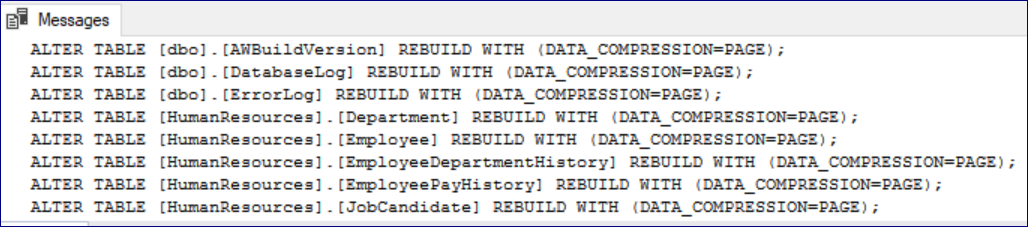
FETCH NEXT FROM compress\_cursor INTO @sqlcmd

END

CLOSE compress\_cursor

DEALLOCATE compress\_cursor

**SAMPLE OUTPUT:**



**Scenario-2: This EXECUTES & ENABLES all Tables & Indexes Compression at ROW Level**

/\*

**Run in the database that will be compressed with CONDITION DATA\_COMPRESSION=ROW**

\*/

use AdventureWorks2012 --CHANGE YOUR DBNAME HERE TO COMPRESS Table & Indexes with CONDITION DATA\_COMPRESSION=ROW

go

DECLARE @sqlcmd nvarchar(1000)

DECLARE compress\_cursor CURSOR FOR

SELECT DISTINCT 'ALTER TABLE ' + '[' + s.[name] + ']'+'.' + '[' + o.[name] + ']' + ' REBUILD WITH (DATA\_COMPRESSION=ROW);'

FROM sys.objects AS o WITH (NOLOCK)

INNER JOIN sys.indexes AS i WITH (NOLOCK)

ON o.[object\_id] = i.[object\_id]

INNER JOIN sys.schemas AS s WITH (NOLOCK)

ON o.[schema\_id] = s.[schema\_id]

INNER JOIN sys.dm\_db\_partition\_stats AS ps WITH (NOLOCK)

ON i.[object\_id] = ps.[object\_id]

AND ps.[index\_id] = i.[index\_id]

WHERE o.[type] = 'U'

UNION ALL

SELECT 'ALTER INDEX '+ '[' + i.[name] + ']' + ' ON ' + '[' + s.[name] + ']' + '.' + '[' + o.[name] + ']' + ' REBUILD WITH (DATA\_COMPRESSION=ROW);'

FROM sys.objects AS o WITH (NOLOCK)

INNER JOIN sys.indexes AS i WITH (NOLOCK)

ON o.[object\_id] = i.[object\_id]

INNER JOIN sys.schemas s WITH (NOLOCK)

ON o.[schema\_id] = s.[schema\_id]

INNER JOIN sys.dm\_db\_partition\_stats AS ps WITH (NOLOCK)

ON i.[object\_id] = ps.[object\_id]

AND ps.[index\_id] = i.[index\_id]

WHERE o.type = 'U' AND i.[index\_id] >0

OPEN compress\_cursor;

FETCH NEXT FROM compress\_cursor INTO @sqlcmd

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @sqlcmd

EXEC sp\_executesql @sqlcmd

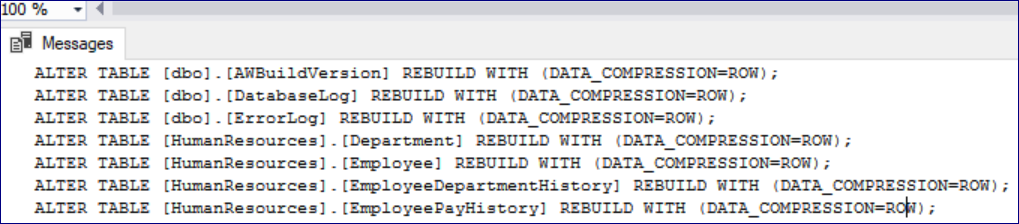
FETCH NEXT FROM compress\_cursor INTO @sqlcmd

END

CLOSE compress\_cursor

DEALLOCATE compress\_cursor

**SAMPLE OUTPUT:**



**Scenario-3: This EXECUTES & DISABLES all Tables & Indexes Compression. (Removes Compression)**

/\*

**Run in the database that will be compressed with CONDITION DATA\_COMPRESSION=NONE**

\*/

use AdventureWorks2012 --CHANGE YOUR DBNAME HERE To Remove Compression of all Tables & Indexes.

go

DECLARE @sqlcmd nvarchar(1000)

DECLARE compress\_cursor CURSOR FOR

SELECT DISTINCT 'ALTER TABLE ' + '[' + s.[name] + ']'+'.' + '[' + o.[name] + ']' + ' REBUILD WITH (DATA\_COMPRESSION=NONE);'

FROM sys.objects AS o WITH (NOLOCK)

INNER JOIN sys.indexes AS i WITH (NOLOCK)

ON o.[object\_id] = i.[object\_id]

INNER JOIN sys.schemas AS s WITH (NOLOCK)

ON o.[schema\_id] = s.[schema\_id]

INNER JOIN sys.dm\_db\_partition\_stats AS ps WITH (NOLOCK)

ON i.[object\_id] = ps.[object\_id]

AND ps.[index\_id] = i.[index\_id]

WHERE o.[type] = 'U'

UNION ALL

SELECT 'ALTER INDEX '+ '[' + i.[name] + ']' + ' ON ' + '[' + s.[name] + ']' + '.' + '[' + o.[name] + ']' + ' REBUILD WITH (DATA\_COMPRESSION=NONE);'

FROM sys.objects AS o WITH (NOLOCK)

INNER JOIN sys.indexes AS i WITH (NOLOCK)

ON o.[object\_id] = i.[object\_id]

INNER JOIN sys.schemas s WITH (NOLOCK)

ON o.[schema\_id] = s.[schema\_id]

INNER JOIN sys.dm\_db\_partition\_stats AS ps WITH (NOLOCK)

ON i.[object\_id] = ps.[object\_id]

AND ps.[index\_id] = i.[index\_id]

WHERE o.type = 'U' AND i.[index\_id] >0

OPEN compress\_cursor;

FETCH NEXT FROM compress\_cursor INTO @sqlcmd

WHILE @@FETCH\_STATUS = 0

BEGIN

PRINT @sqlcmd

EXEC sp\_executesql @sqlcmd

FETCH NEXT FROM compress\_cursor INTO @sqlcmd

END

CLOSE compress\_cursor

DEALLOCATE compress\_cursor

**SAMPLE OUTPUT:**

