SQL Triggers

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SYM-400

CREATE TRIGGER [Person].[trgUpdateColumns]

ON [Person].[Person]

FOR UPDATE

AS

SET NOCOUNT ON

DECLARE @i AS int, @num\_cols AS int

DECLARE @updCols TABLE(ordinal\_position int NOT NULL PRIMARY KEY)

SET @num\_cols =

(SELECT COUNT(\*)

FROM INFORMATION\_SCHEMA.COLUMNS

WHERE TABLE\_SCHEMA = 'Person'

AND TABLE\_NAME = 'Person')

SET @i = 1

WHILE @i <= @num\_cols

BEGIN

IF(SUBSTRING(COLUMNS\_UPDATED(), (@i - 1) / 8 + 1, 1))

& POWER(2, (@i - 1) % 8) = POWER(2, (@i -1) % 8)

INSERT INTO @updCols VALUES (@i)

SET @i = @i + 1

END

SELECT COLUMN\_NAME AS Updated\_Column, GETDATE() AS DateModified

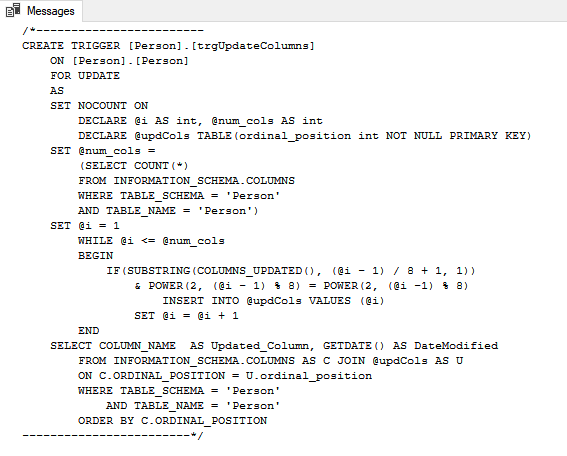
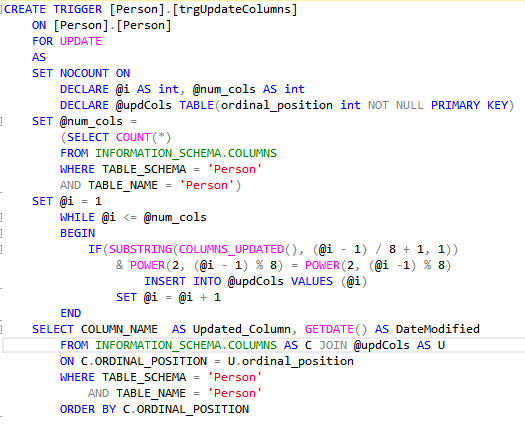
FROM INFORMATION\_SCHEMA.COLUMNS AS C JOIN @updCols AS U

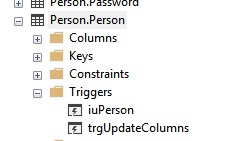
ON C.ORDINAL\_POSITION = U.ordinal\_position

WHERE TABLE\_SCHEMA = 'Person'

AND TABLE\_NAME = 'Person'

ORDER BY C.ORDINAL\_POSITION



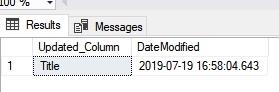
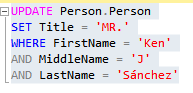
UPDATE Person.Person

SET Title = 'MR.'

WHERE FirstName = 'Ken'

AND MiddleName = 'J'

AND LastName = 'Sánchez'

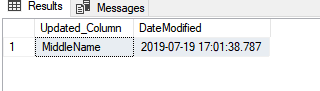
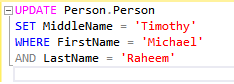


UPDATE Person.Person

SET MiddleName = 'Timothy'

WHERE FirstName = 'Michael'

AND LastName = 'Raheem'

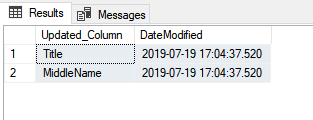
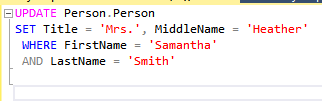


UPDATE Person.Person

SET Title = 'Mrs.', MiddleName = 'Heather'

WHERE FirstName = 'Samantha'

AND LastName = 'Smith'



UPDATE Person.Person

SET Title = 'Mrs.', LastName = 'Thompson'

WHERE FirstName = 'Lori'

AND MiddleName = 'K'

AND LastName = 'Penor'

