**SYM-400 SQL Triggers**

The purpose of this assignment is to alter and apply the trigger code to the Person.Person table in the Adventure Works database.

* First, amend the trigger code (below) to fire correctly on the "Person.Person" table. Next, apply the trigger code provided below to the "Person.Person" table to track the number of modifications of data for the table. Check that the trigger worked by updating four records in the "Person.Person" table. Create a Word document which includes the altered trigger code, result table, and a screenshot of the fired trigger results.
* Add the "Title" 'Mrs.' and change the "LastName" to 'Thompson' for 'Lori K Penor'

**Trigger Code**

CREATE TRIGGER [].[trgUpdatedColumns]

ON [].[] 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 = ''

AND TABLE\_NAME = '')

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 = ''

AND TABLE\_NAME = ''

ORDER BY C.ORDINAL\_POSITION