**--Data Validation Tests including Data Completeness/Correctness/Reconciliation**

With CTE\_Source#1

AS (

SELECT <AttributeList>

From Source1

)

,CTE\_Source#2

AS (

SELECT <AttributeList>

FROM Source2

)

SELECT <AttributeList>

INTO #SourceData

FROM (

Source1

UNION ALL

Source2

)TMP

SELECT @TableName as TableName, @TestType as TestType

,<Source AttributeLists>, HASHBYTES('SHA1', CONCAT(<Source AttributeList>)) as SRC\_Hash,

,<Target AttributeLists> ,HASHBYTES('SHA1', CONCAT(<Target Attribute List>)) as TGT\_Hash,

Case WHEN SRC\_Hash = TGT\_Hash

THEN 'Passed'

ELSE 'Failed'

End as TestResult,

GetDate () as TestedOn

INTO #TestResult table

FROM #SourceData SRC

Left JOIN

(SELECT <AttributeList>

FROM <Target Entity>

) TGT

On <Join Conditions >

and SRC.Attribute1 = TGT.Attribute1

and SRC.Attribute2 = TGT.Attribute2

--SCD Type 2 Testing

SELECT @@ServerName as ServerName, 'EntityName' as TableName, 'SCD Type2' as Test Type

, Party\_Id,Attribute1, Attribute1....AttributeN, Start\_Date, End\_Date

, LEAD(Start\_Date) over (Partition By <Party\_Id> Order by Start\_Date) as NXT\_Start\_Date

, Case When LEAD(Start\_Date) over ( Partition By Party\_Id Order by Start\_Date) is NOT NULL and LEAD(Start\_Date) over ( Partition By Party\_Id ORDER by Start\_Date) = End\_Date

then 'Passed'

when LEAD(Start\_Date) over (Partition By Party\_Id Order by Start\_Date) is NULL and CAST(End\_Date as Date) = '2099-12-31' then 'Passed'

Else 'Failed'

End as TestResult

, GetDate() as TestedOn

--INTO QA. Result Table

FROM <EntityName>