

Azure Data Factory – Mapping Data Flows' Components

Activity	Description	SSIS ed	quivalent	SQL Server equivalent
New branch	Create a new flow branch with the same data	人	Multicast (+icon)	SELECT INTO SELECT OUTPUT
Join	Join data from two streams based on a condition	+ T	Merge join	INNER LEFT RIGHT JOIN, CROSS FULL OUTER JOIN
Conditional Split	Route data into different streams based on conditions	丛	Conditional Split	SELECT INTO WHERE condition1 SELECT INTO WHERE condition2 CASE WHEN
Exists	Check the existence of data in another stream	<u></u>	Lookup / Merge Join	SELECT * FROM Table WHERE EXISTS (SELECT) JOIN NOT EXISTS
Union	Collect data from multiple streams	T	Union All	SELECT colla UNION (ALL) SELECT collb
Lookup	Lookup additional data from another stream		Lookup	LEFT RIGHT JOIN
Derived Column	Compute new columns based on the existing once	$f_{\mathcal{R}}$	Derived Column	SELECT Column1 * 1.09 as NewColumn
Select	Choose columns to flow to the next stream		OUTPUT in components, mapping columns	SELECT Column1, Column4 FROM Table
∑	Calculate aggregation on the stream	(: ³Σ	Aggregate	<pre>SELECT Year(DateOfBirth) as Year, MIN(), MAX(), AVG() GROUP BY Year(DateOfBirth)</pre>
Surrogate Key	Add a surrogate key column to output stream from a specific value		Script Component	SELECT ROW_NUMBER() OVER(ORDER BY n ASC) AS R#, n FROM sys.databases + Incremental Primary Key (with limited capabilities)
Pivot	Pivots row values into columns, groups columns and aggregates data		Pivot	SELECT rowCol, c1, c2 FROM (SELECT sourceCols FROM Table) PIVOT (SUM(sumCol) FOR col IN ())
Unpivot	Unpivots columns into row values and ungroups columns	5	Unpivot	SELECT rowCol, col, X FROM (SELECT rowCol, c1, c2 FROM pvt) UNPIVOT (X FOR col FROM (c1, c2)) AS unpvt
Window	Aggregates data based on a window and joins with original data	1 1	[Sort] + Custom Script	SELECT fun() OVER(PARTITION BY pc ORDER BY oc) newc, pc, oc, otherCols FROM Table
Filter	Filter rows in the stream based on a condition	囚	Conditional Split	SELECT * FROM Table WHERE [Column] LIKE '%pattern%'
↓ ↑ Sort	Order data in the stream based on column(s)	11	Sort	SELECT * FROM Table ORDER BY [Column] ASC
Alter Row	Set action policy on rows when database is sink	囚	Conditional Split + n Destinations	MERGE INSERT, UPDATE, DELETE IF WHERE
Source Source	Source for your data flow. Obligatory first element of every Data Flow in ADF	*	OLE DB Source and more	SELECT * FROM SourceTable
Sink	Destination for your data flow	8	OLE DB Destination and more	INSERT INTO TargetTable





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