

Azure Data Factory – Data Flow Components #ADFDF

Activity	Description	SSIS equivalent	SQL Server equivalent
New branch	Create a new flow branch with the same data	Multicast (+icon)	SELECT INTO SELECT OUTPUT
Join	Join data from two streams based on a condition	Merge join	INNER/LEFT/RIGHT JOIN, CROSS/FULL OUTER JOIN
Conditional Split	Route data into different streams based on conditions	Conditional Split	SELECT INTO WHERE condition1 SELECT INTO WHERE condition2 CASE WHEN
Union	Collect data from multiple streams	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	Derived Column	SELECT Column1 * 1.09 as NewColumn
∑ Aggregate	Calculate aggregation on the stream	Aggregate	<pre>SELECT Year(DateOfBirth) as YearOnly, 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 name ASC) AS Row#, name FROM sys.databases Incremental Primary Key (with limited capabilities)
Exists	Check the existence of data in another stream	Lookup / Merge Join	SELECT * FROM Table WHERE EXISTS(SELECT)
 Select	Choose columns to flow to the next stream	OUTPUT in components, mapping columns	SELECT Column1, Column4 FROM Table
Filter	Filter rows in the stream based on a condition	Conditional Split	SELECT * FROM Table WHERE [Column] LIKE '%pattern%'
↓ Sort	Order data in the stream based on column(s)	Sort	SELECT * FROM Table ORDER BY [Column] ASC
Extend	Use any custom logic from an external library	Script Component	SQL CLR
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	OLE DB Destination and more	INSERT INTO TargetTable

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