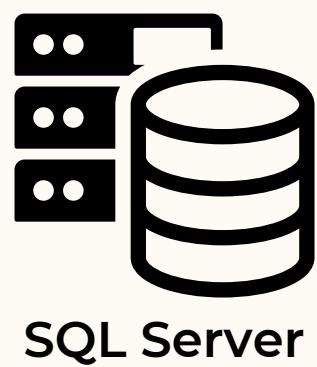
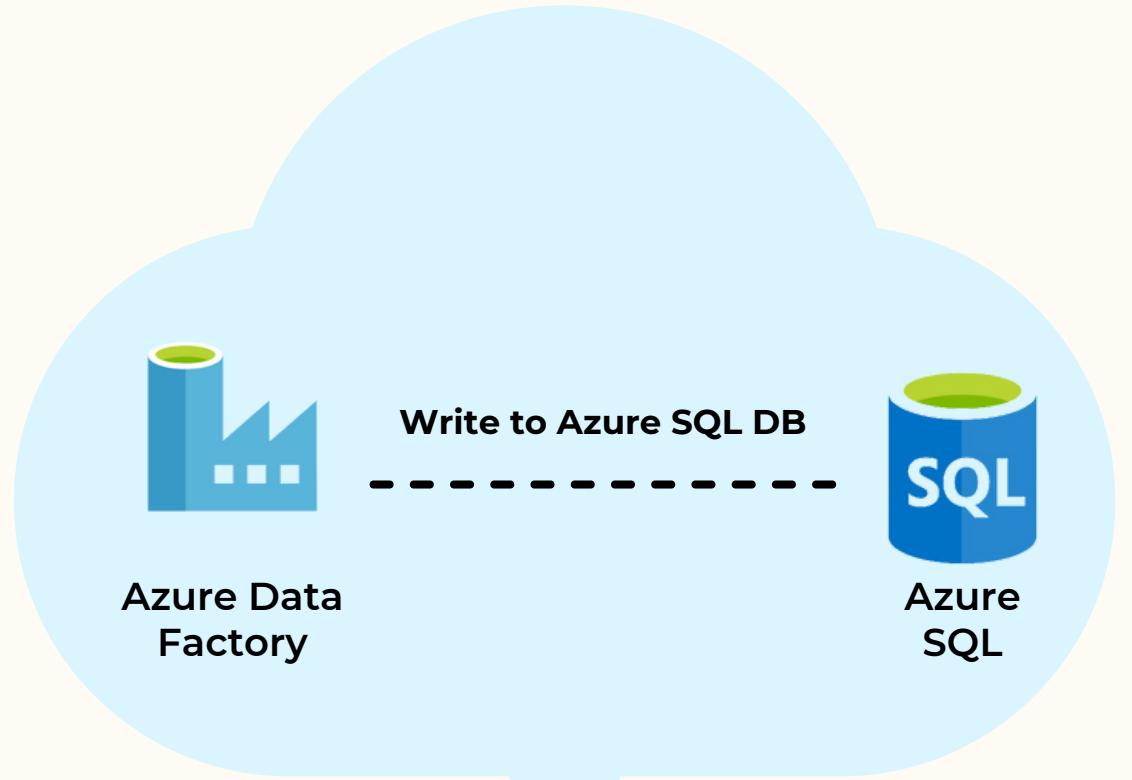


Learn How to Migrate On-Premise SQL Data to Azure SQL Using Azure Data Factory!



Data Pull
↔



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Make linked service for MS SQL and Azure SQL DB

MS SQL Configuration:

Edit linked service (SQL Server)

Name *

Description

Connect via integration runtime * ⓘ

Connection string Azure Key Vault

Server name *

Database name *

Authentication type

Azure SQL DB Configuration:

Edit linked service (Azure SQL Database)

Integration runtime

Description

Connect via integration runtime * ⓘ

Connection string Azure Key Vault

Account selection method ⓘ

 From Azure subscription Enter manually

Fully qualified domain name *

Database name *

Add dynamic content [Alt+P]

Authentication type *

Configure Lookup Activity

The screenshot shows the configuration interface for a Lookup activity in a data flow. At the top, there is a preview window showing a magnifying glass icon and the text "Lookup1". Below the preview are three tabs: General, Settings (which is selected), and User properties.

General **Settings** **User properties**

Source dataset *: listtables

Use query: Query Table Stored procedure

Query *:

```
select table_schema,table_name from
information_schema.tables where
table_type = 'BASE TABLE'
```

Query timeout (minutes): 120

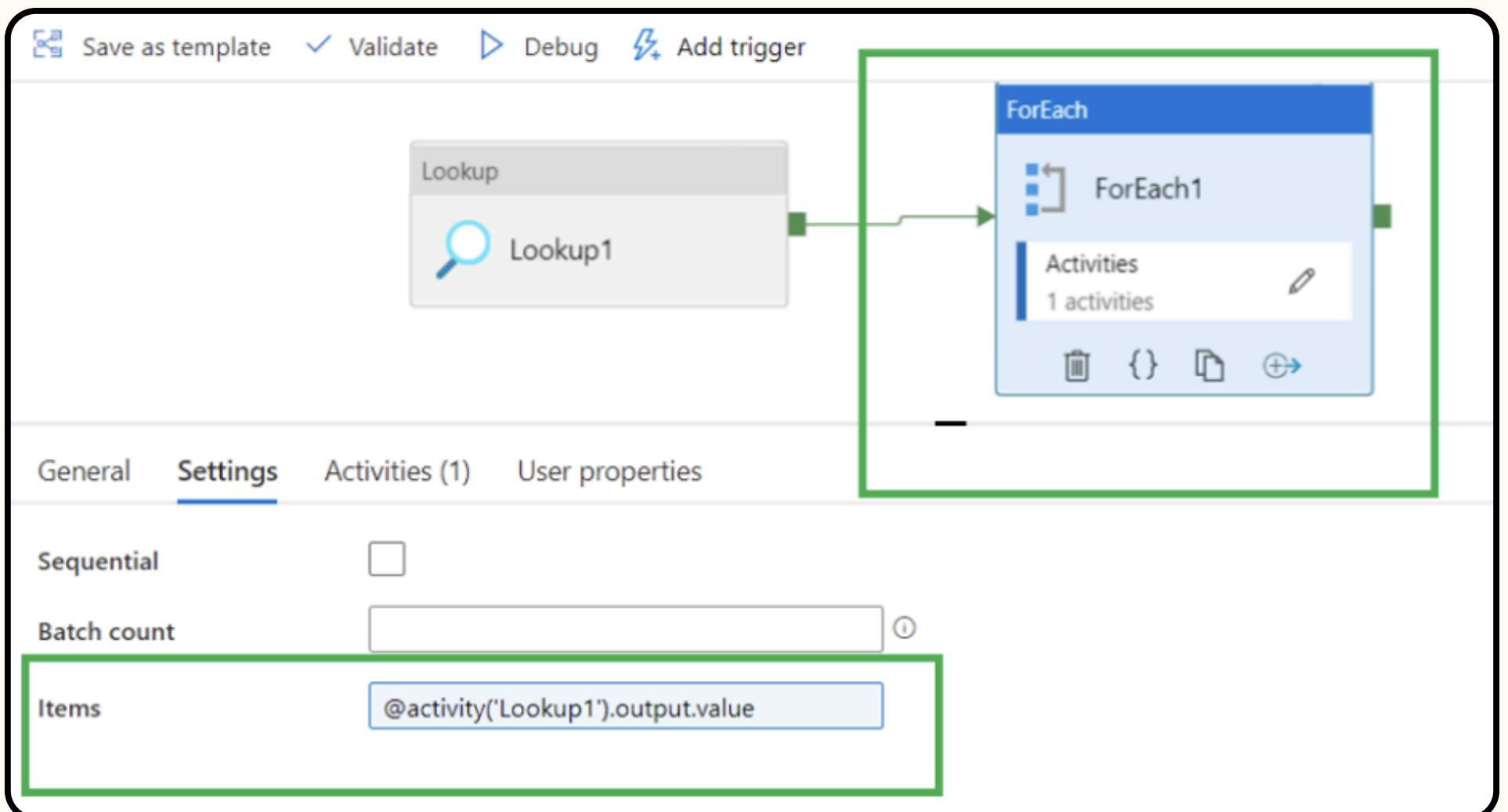
Isolation level: None

Partition option: None Physical partitions of table

First row only:

Configure For Each Activity

Azure SQL DB Configuration:



Configure Copy Data Activity

Source Dataset

Create parameters in source dataset

The screenshot shows the 'Parameters' tab for an Azure SQL Database dataset named 'AzureSqlTable29'. A green box highlights the 'Parameters' section where two parameters are defined: 'table_name' and 'table_schema', both of type String.

| NAME | TYPE | DEFAULT VALUE |
|--------------|--------|---------------|
| table_name | String | Value |
| table_schema | String | Value |

Configure Copy Data Activity

Source Dataset

Pass the parameter in connection:

The screenshot shows the configuration interface for a dataset in Azure Data Factory. The top section displays the connection information: "Azure SQL Database" and "AzureSqlTable29". Below this, there are three tabs: "Connection" (selected), "Schema", and "Parameters". The "Connection" tab contains fields for "Linked service" (set to "AzureSqlDatabase4") and "Table" (set to "@dataset().table_schema . @dataset().table_name"). A green box highlights the "Connection" tab and the "Table" field. At the bottom right of the "Table" input field is a small "Edit" button with a checkmark.

Final Copy data activity Source

Dataset Setting

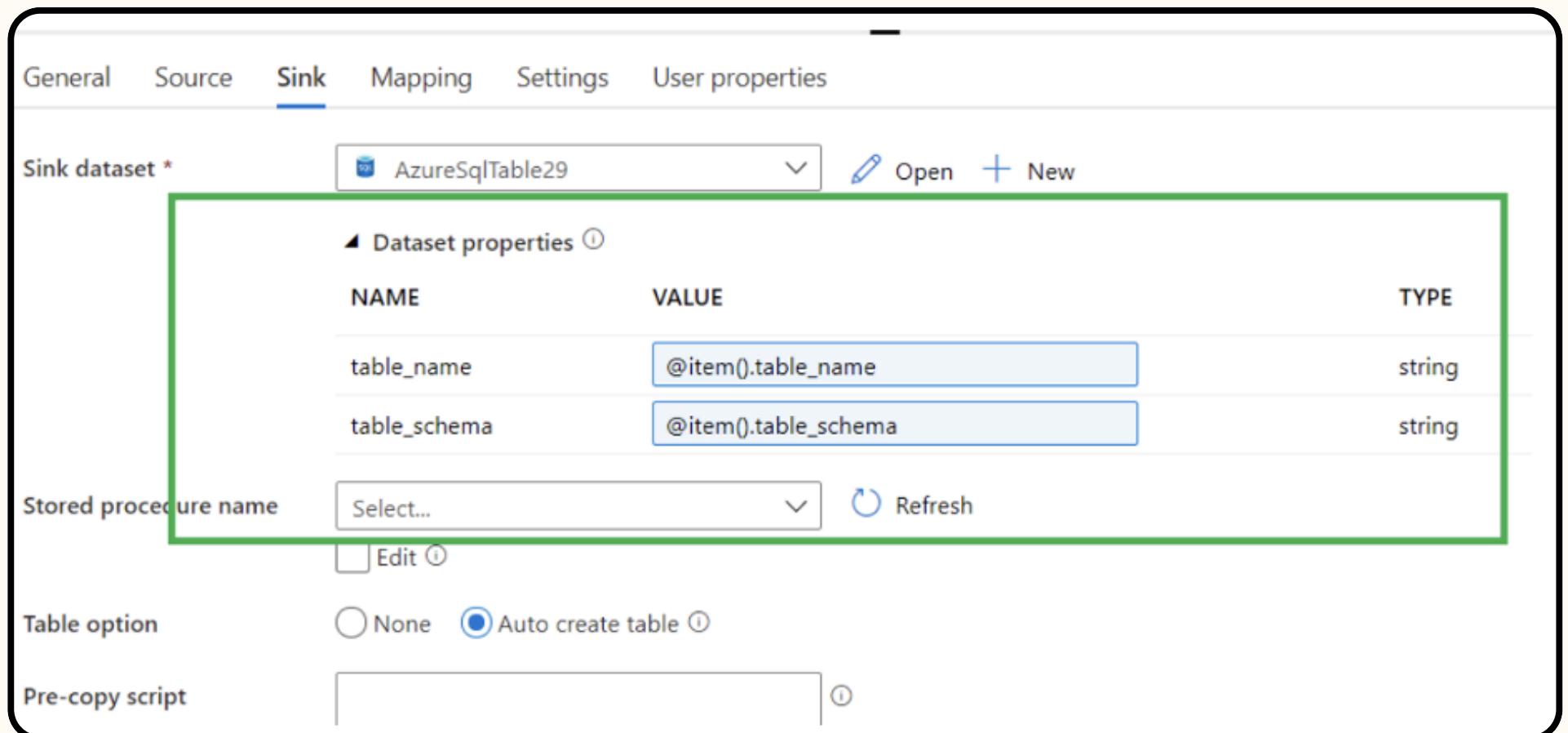
The screenshot shows the Azure Data Factory Studio interface. At the top, there are several status indicators: 'Save as template' (green checkmark), 'Validate' (green checkmark), 'Validate copy runtime' (green checkmark), 'Debug' (yellow exclamation mark), and 'Add trigger' (blue lightning bolt). Below these, the pipeline structure is visible, showing a 'ForEach1' loop containing a 'Copy data1' activity. The 'Copy data1' activity is highlighted with a green rounded rectangle.

The main area displays the 'Source' tab for the dataset configuration. The 'Source dataset' dropdown is set to 'extracttables'. Below it, the 'Dataset properties' section contains two entries:

| NAME | VALUE | TYPE |
|--------------|----------------------|--------|
| table_name | @item().table_name | string |
| table_schema | @item().table_schema | string |

The 'Use query' section is expanded, showing the 'Table' radio button selected. The 'Query timeout (minutes)' field is set to 120. The 'Isolation level' dropdown is set to 'None'.

Similarly configure Copy data activity sink setting



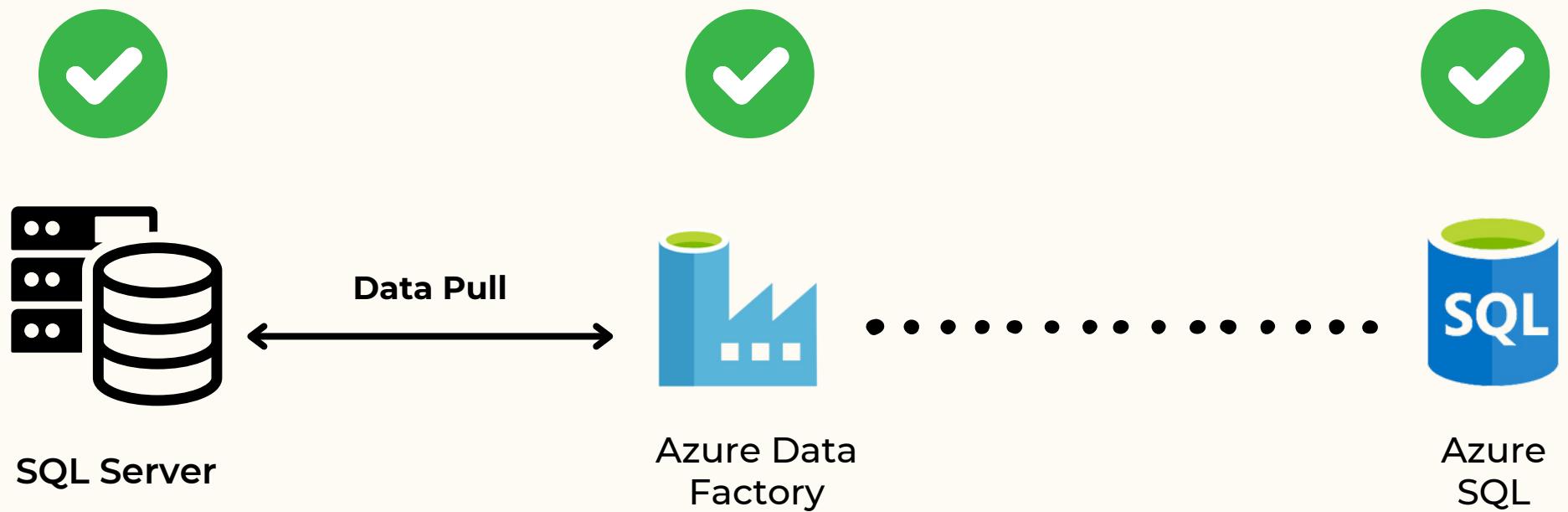
The screenshot shows the 'Sink' tab selected in the Azure Data Factory configuration interface. A green box highlights the 'Dataset properties' section under the 'Sink dataset' dropdown, which is set to 'AzureSqlTable29'. The table below lists dataset properties:

| NAME | VALUE | TYPE |
|--------------|----------------------|--------|
| table_name | @item().table_name | string |
| table_schema | @item().table_schema | string |

Below this, there is a 'Stored procedure name' dropdown set to 'Select...', a 'Refresh' button, and an 'Edit' checkbox.

Under 'Table option', the 'Auto create table' radio button is selected. There is also a 'Pre-copy script' input field.

Initiate Pipeline and Execute Data Migration



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SHUBHAM

Business Data Analyst (Power BI Developer)