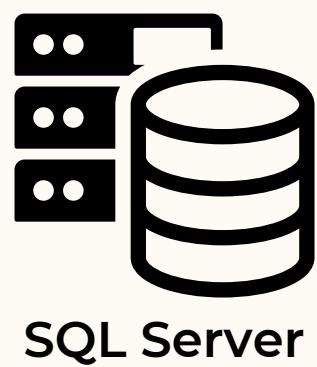


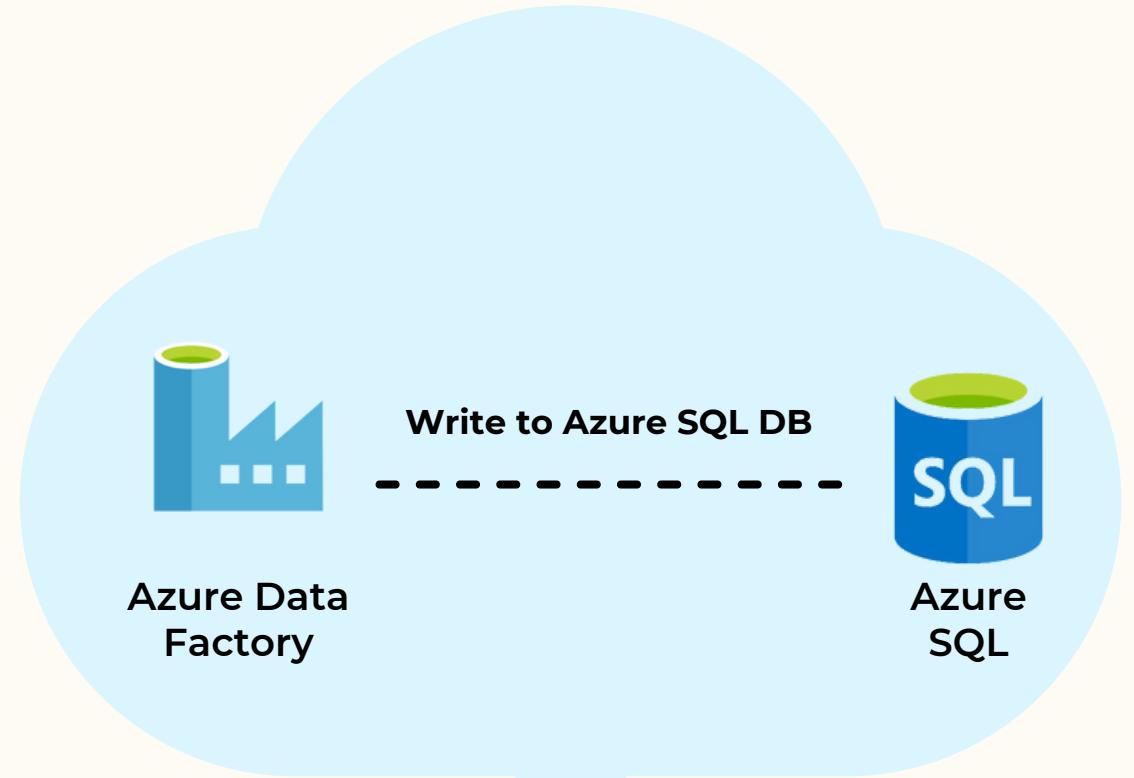
# Learn How to Migrate On-Premise SQL Data to Azure SQL Using Azure Data Factory!



Data Pull



SQL Server



Write to Azure SQL DB

Azure Data  
Factory



Azure  
SQL

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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

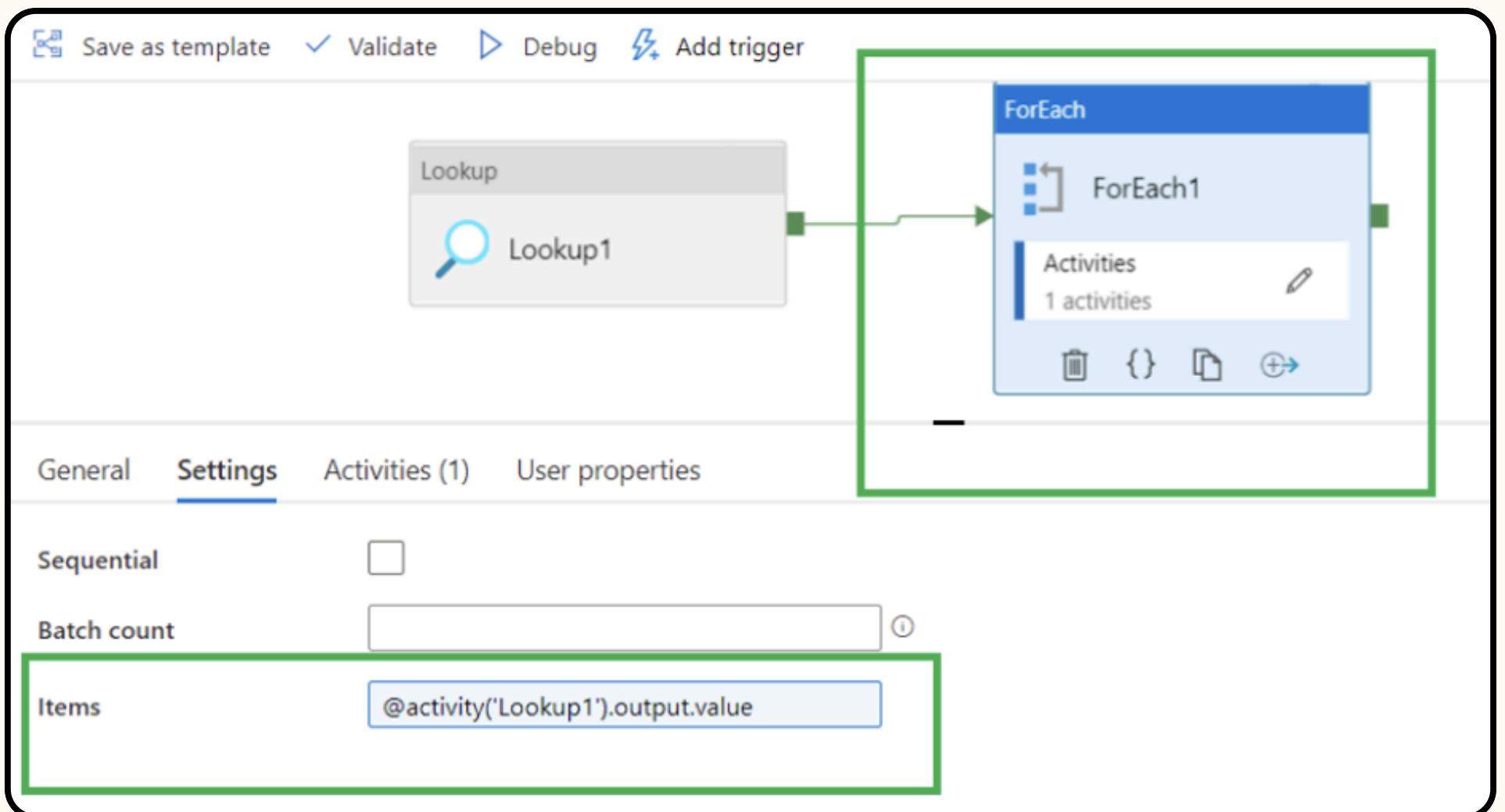
**Isolation level**: None

**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

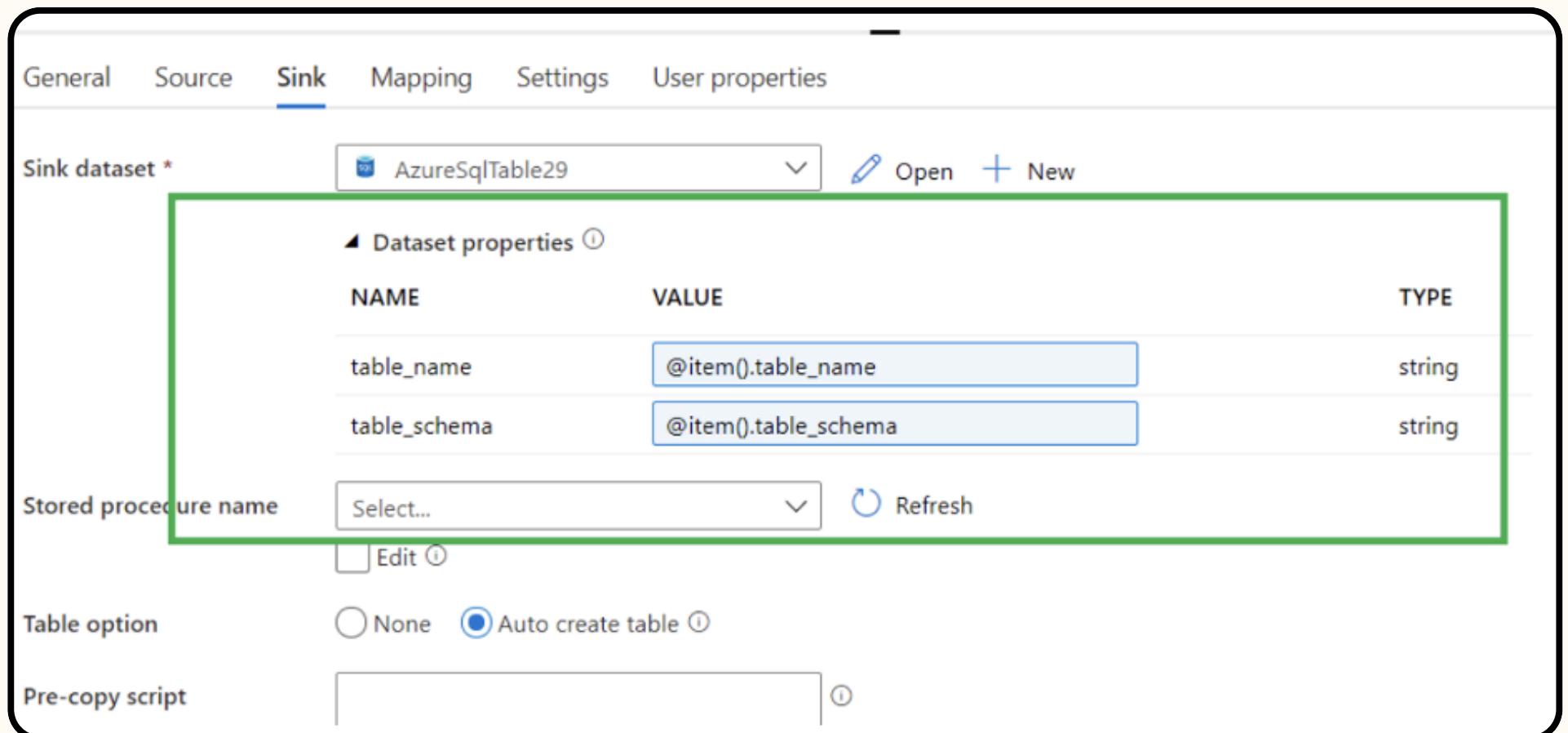
## Dataset Setting

The screenshot shows the Azure Data Factory Studio interface. At the top, there are several buttons: Save as template, Validate, Validate copy runtime, Debug, and Add trigger. Below these, a pipeline structure is visible with a 'ForEach1' loop containing a 'Copy data1' activity. The 'Source' tab is selected in the navigation bar. Under 'Source dataset \*', the dropdown shows 'extracttables'. The 'Dataset properties' section contains two rows:

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

The 'Use query' section has three radio buttons: Table (selected), Query, and Stored procedure. The 'Query timeout (minutes)' field is set to 120. The 'Isolation level' dropdown is set to None.

# Similarly configure Copy data activity sink setting



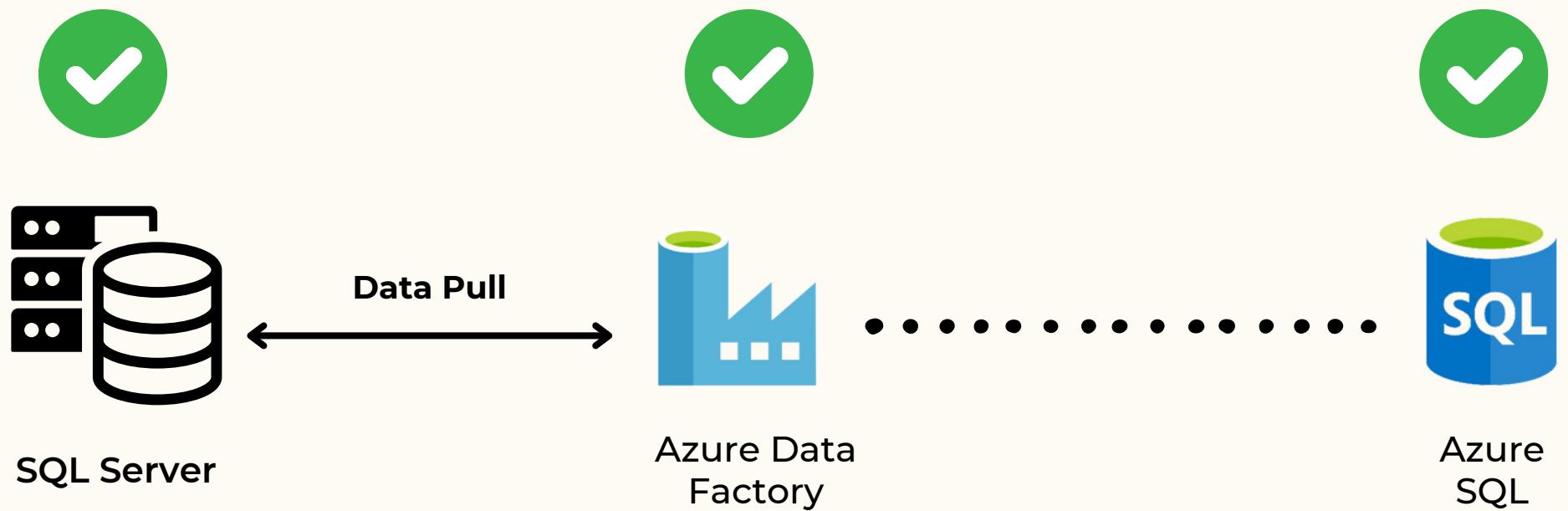
The screenshot shows the 'Sink' tab selected in the Azure Data Factory configuration interface. A green box highlights the 'Dataset properties' section under the 'Sink dataset' dropdown, which is set to 'AzureSqlTable29'. The table below lists dataset properties:

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)**