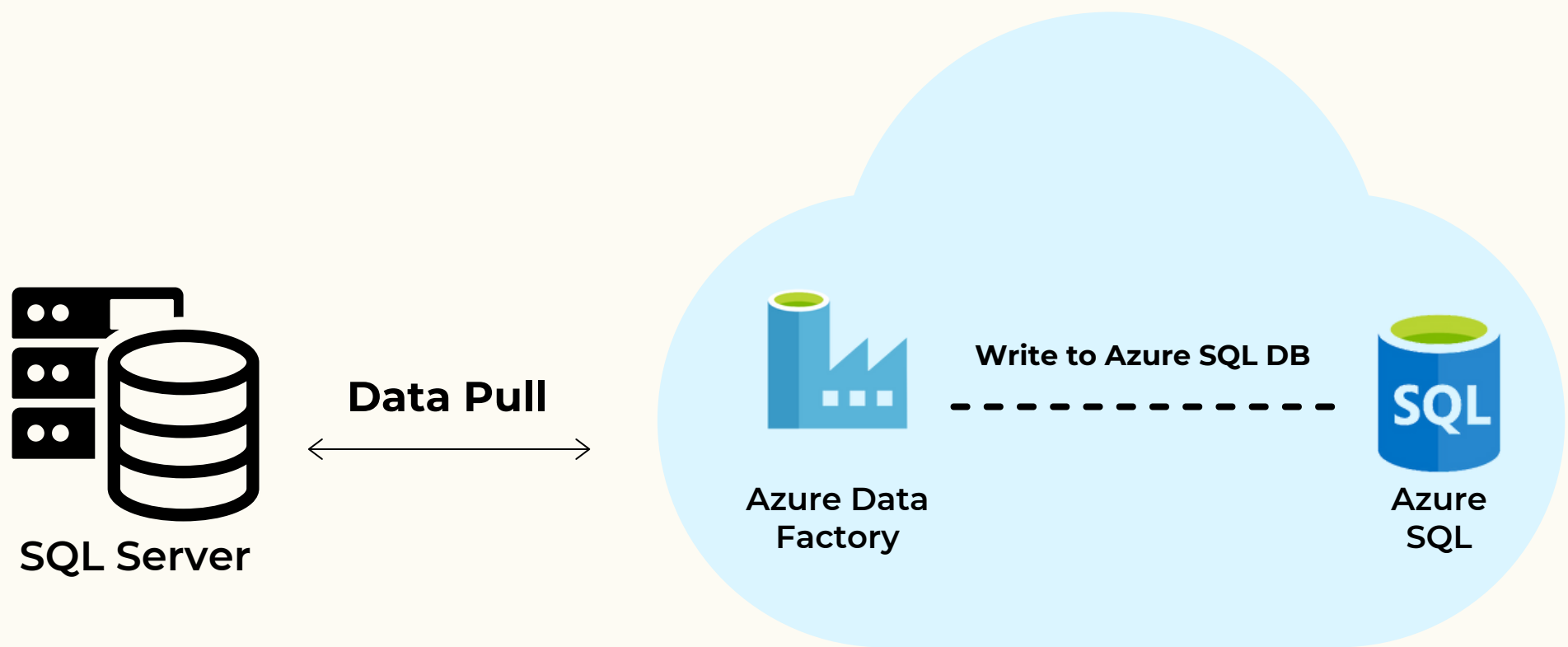


# Learn How to **Migrate On-Premise SQL Data to Azure SQL Using Azure Data Factory!**



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# Make linked service for MS SQL and Azure SQL DB

## MS SQL Configuration:

### Edit linked service (SQL Server)

Name \*  
SqlServer2

Description

Connect via integration runtime \* ⓘ  
integrationRuntime1

**Connection string** Azure Key Vault

Server name \*  
LAPTOP-TP7PUK15

Database name \*  
AdventureWorks2016

Authentication type  
Windows authentication

## Azure SQL DB Configuration:

### Edit linked service (Azure SQL Database)

Name  
AzureSqlDatabase4

Description

Connect via integration runtime \* ⓘ  
AutoResolveIntegrationRuntime

**Connection string** Azure Key Vault

Account selection method ⓘ  
☐ From Azure subscription ☒ Enter manually


Fully qualified domain name \*  
testadf.database.windows.net





Database name \*  
ABC  
[Add dynamic content \[Alt+P\]](#)

Authentication type \*  
SQL authentication

# Configure Lookup Activity

Lookup

 Lookup1


   

General


**Settings**

User properties

Source dataset \*

 listtables

▼



Use query

☐ Table ☒ Query ☐ 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:

The screenshot displays the Azure Logic App Designer interface. At the top, there is a toolbar with buttons for 'Save as template', 'Validate', 'Debug', and 'Add trigger'. The main workspace shows a 'Lookup' activity named 'Lookup1' connected to a 'ForEach' loop. The 'ForEach' loop is highlighted with a green box and contains a sub-activity named 'ForEach1'. Below the workspace, the 'Settings' tab is selected, showing options for 'Sequential' (unchecked), 'Batch count' (empty field), and 'Items' (set to '@activity('Lookup1').output.value'). The 'Items' field is also highlighted with a green box.

Save as template ✓ Validate ▶ Debug ⚡ Add trigger

Lookup  
Lookup1

ForEach  
ForEach1  
Activities  
1 activities

General Settings Activities (1) User properties

Sequential ☐


Batch count

Items

# Configure Copy Data Activity

## Source Dataset

Create parameters in source dataset



Azure SQL Database  
AzureSqlTable29


Connection

Schema

Parameters

+ New

|

 Delete

<input type="checkbox"/>	NAME	TYPE	DEFAULT VALUE
	<input type="text" value="table_name"/>	<div>String</div> <div>▼</div>	<input type="text" value="Value"/>
	<input type="text" value="table_schema"/>	<div>String</div> <div>▼</div>	<input type="text" value="Value"/>

# Configure Copy Data Activity Source Dataset

Pass the parameter in connection:

The screenshot shows the 'Configure Copy Data Activity' dialog for the 'Source Dataset' tab. The 'Linked service' is set to 'AzureSqlDatabase4'. The 'Table' field is configured with a schema parameter '@dataset().table\_schema' and a table name parameter '@dataset().table\_name'. The 'Connection' tab is selected, and the 'Schema' and 'Parameters' tabs are also visible.

**SQL** Azure SQL Database  
**AzureSqlTable29**

Connection Schema Parameters

Linked service \* AzureSqlDatabase4 Test connection Edit + New

Table @dataset().table\_schema . @dataset().table\_name Edit

# Final Copy data activity Source Dataset Setting

The screenshot shows the 'Copy data' activity configuration in the 'Source' tab. The 'Source dataset' is set to 'extracttables'. The 'Dataset properties' section is expanded, showing a table with the following data:

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

Below the table, the 'Use query' section has the 'Table' radio button selected. The 'Query timeout (minutes)' is set to 120. The 'Isolation level' is set to 'None'.

# Similarly configure Copy data activity sink setting

General Source **Sink** Mapping Settings User properties

Sink dataset \* AzureSqlTable29 Open New

Dataset properties ⓘ

NAME	VALUE	TYPE
table_name	<input type="text" value="@item().table_name"/>	string
table_schema	<input type="text" value="@item().table_schema"/>	string

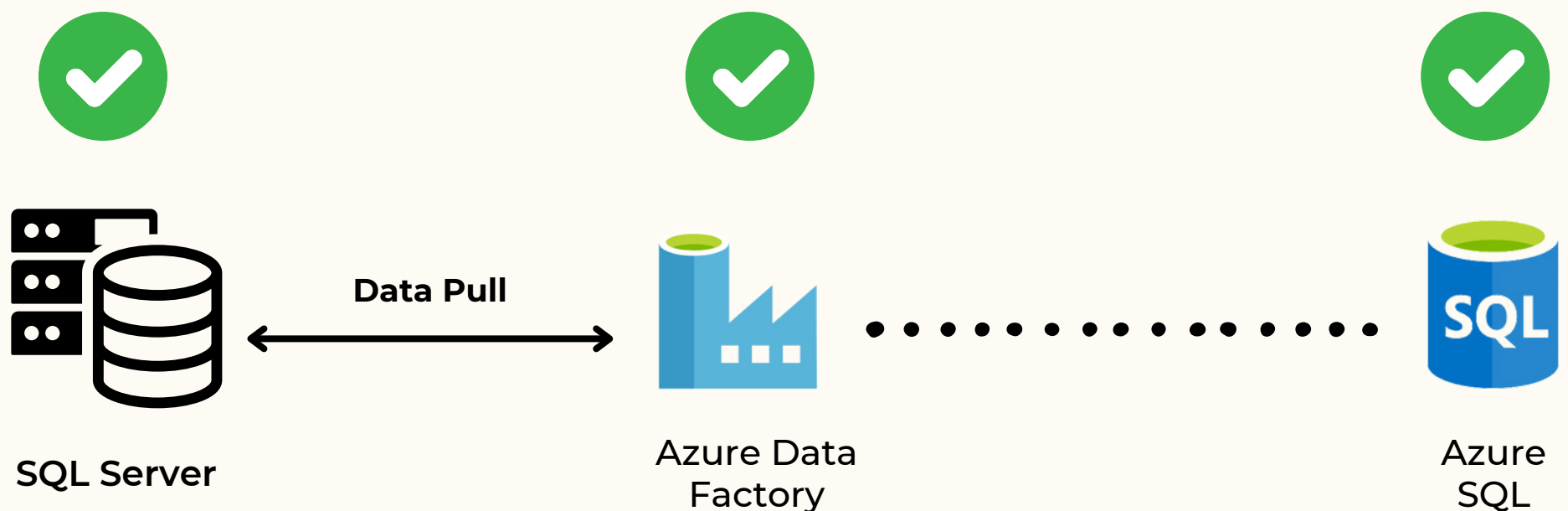
Stored procedure name Select... Refresh

☐ Edit ⓘ

Table option ☐ None ☒ Auto create table ⓘ

Pre-copy script

# Initiate Pipeline and Execute Data Migration



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**Business Data Analyst (Power BI Developer)**