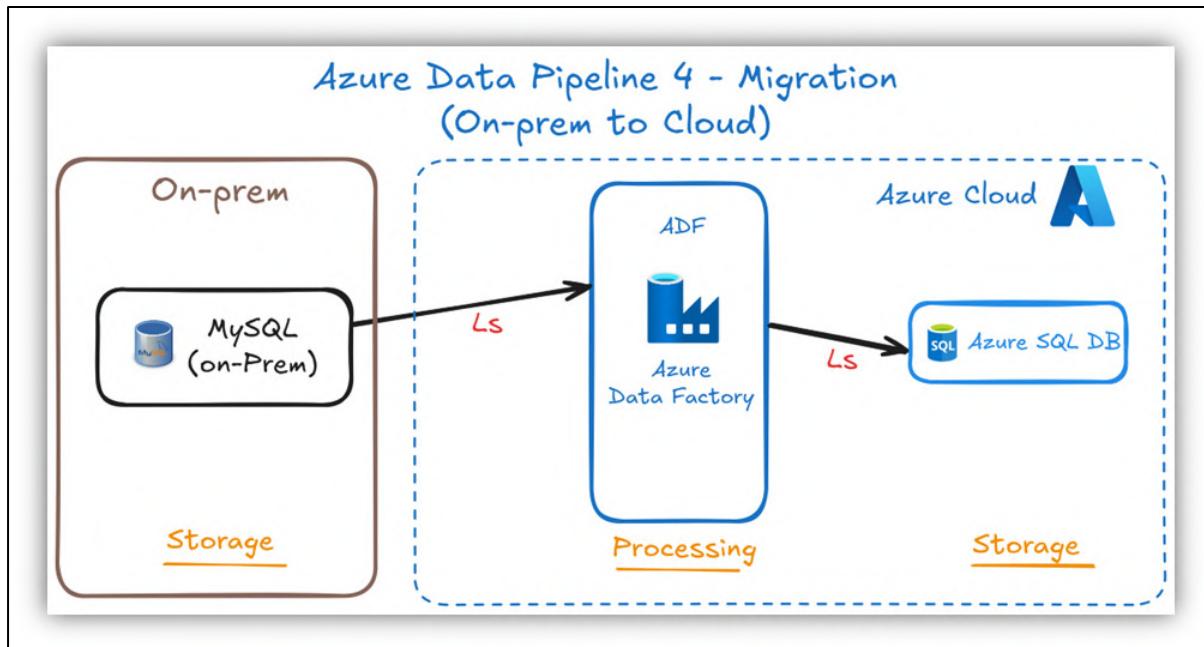


## **DATA MIGRATION PROJECT – ON PREM TO AZURE CLOUD**



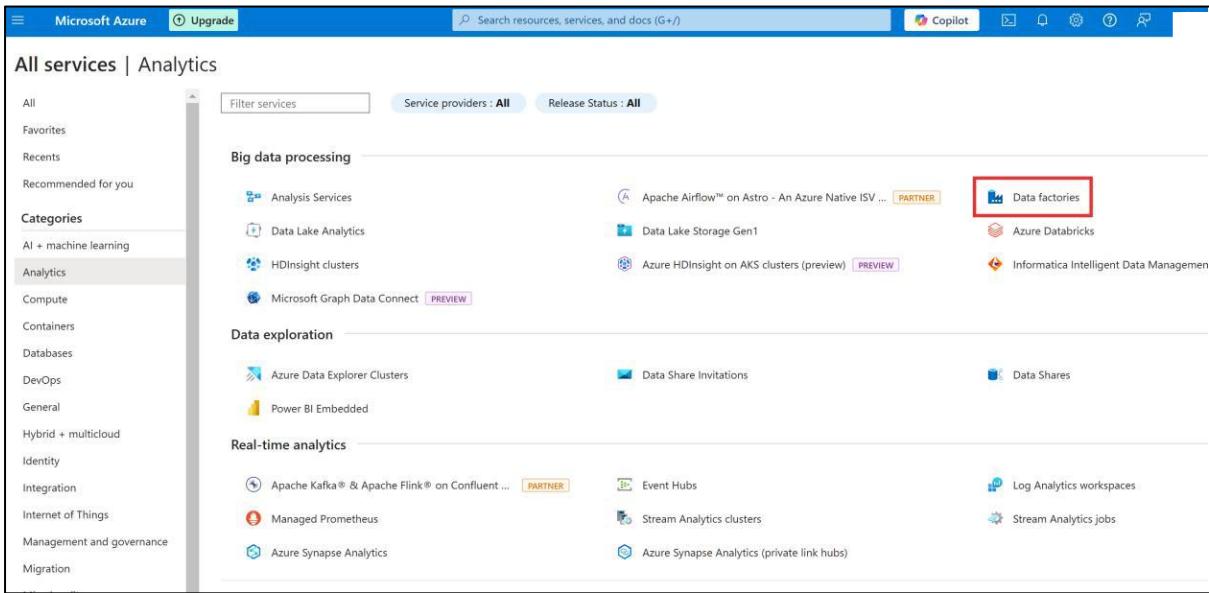
*Architecture Diagram*

#### **Steps Involved -**

1. MySQL On-Premises Data
2. Azure Data Factory Creation
3. Azure SQL Database Creation
4. Creating Linked Services
5. Creation of Pipeline
6. Run the Pipeline
7. End-to-End Testing

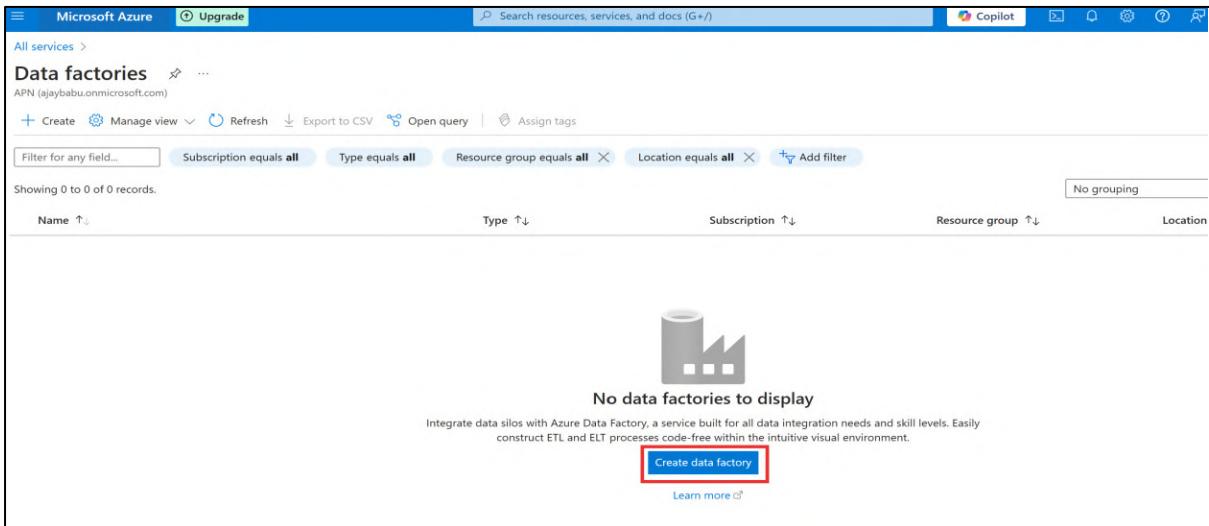
## Creation of Azure Data Factory:

### Step1: Create Data factories in red colour box



The screenshot shows the Microsoft Azure portal's search results for 'Analytics'. On the left, a sidebar lists various service categories under 'Categories', with 'Analytics' selected. The main area displays several service tiles under 'Big data processing', 'Data exploration', and 'Real-time analytics'. The 'Data factories' service tile, which features a factory icon and the text 'Data factories', is highlighted with a red box.

### Step 2: Create Data factories in red colour box



The screenshot shows the 'Data factories' blade in the Microsoft Azure portal. At the top, there are filter options and a search bar. Below the filters, it says 'Showing 0 to 0 of 0 records.' In the center, there is a large icon of a factory and the text 'No data factories to display'. Below this, a descriptive paragraph reads: 'Integrate data silos with Azure Data Factory, a service built for all data integration needs and skill levels. Easily construct ETL and ELT processes code-free within the intuitive visual environment.' A prominent blue button labeled 'Create data factory' is highlighted with a red box. Below the button, there is a 'Learn more' link.

### Step 3: Fill the form accordingly and click on next

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

All services > Data factories > Create Data Factory

Basics Git configuration Networking Advanced Tags Review + create

One-click to create data factory with sample pipeline and datasets. [Try it](#)

**Project details**

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*  ✓

Resource group \*  ✓  
[Create new](#)

**Instance details**

Name \*  ✓

Region \*  ✓

Version \*  ✓

Previous Next Review + create

### Step 4: Check the Configure Git Later box and click next

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

All services > Data factories > Create Data Factory

Basics Git configuration Networking Advanced Tags Review + create

Azure Data Factory allows you to configure a Git repository with either Azure DevOps or GitHub. Git is a version control system that allows for easier change tracking and collaboration.  
[Learn more about Git integration in Azure Data Factory](#)

Configure Git later

Previous Next Review + create

### Step 5: Keep the options as-is and click next

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

All services > Data factories > Create Data Factory

Basics Git configuration Networking Advanced Tags Review + create

**Managed virtual network**

Choose whether you want the default AutoResolveIntegrationRuntime to be provisioned on demand inside an ADF-managed virtual network. If this setting is disabled, after the data factory is created, you can still choose whether to provision explicitly created Azure integration runtime inside an ADF-managed virtual network.  
[Learn more](#)

Enable Managed Virtual Network on the default AutoResolveIntegrationRuntime

**Self-hosted integration runtime inbound connectivity to Azure Data Factory service**

Choose whether to connect your self-hosted integration runtime to Azure Data Factory via public endpoint or private endpoint. This applies to self-hosted integration runtime running either on-premises or inside customer managed Azure virtual network.  
[Learn more](#)

Connect via \*  Public endpoint  Private endpoint

You can change this or configure another connectivity method after this resource is created. [Learn more](#)

Previous Next Review + create

## Step 6: Keep the options as-is and click next

The screenshot shows the 'Create Data Factory' wizard on the 'Advanced' tab. A note about data encryption is present, mentioning Microsoft-managed keys or customer-managed keys stored in an Azure Key Vault. A checkbox for 'Enable encryption using a Customer Managed Key' is shown, which is unchecked.

## Step 7: Keep the options as-is and click next

The screenshot shows the 'Create Data Factory' wizard on the 'Tags' tab. It explains what tags are and how they can be used for billing and categorization. A table allows users to add tags, with one entry shown: 'Name' (empty) and 'Value' (empty), both with a placeholder colon, and 'Resource' set to 'Data factory (V2)'.

## Step 8: Now validation completed and click on create

The screenshot shows the 'Create Data Factory' wizard on the 'Review + create' tab. It includes a 'TERMS' section with legal agreement details, a 'Basics' section with configuration details like subscription, resource group, name, region, and version, and a 'Networking' section with connection settings. At the bottom, there are 'Previous' and 'Next' buttons, and a prominent blue 'Create' button which is highlighted with a red border.

## Step 9: Now Deployment in-progress

The screenshot shows the Microsoft Azure Data Factory Overview page for a deployment named "Microsoft.DataFactory-20250131170656". A red box highlights the status message "Deployment is in progress". Below it, deployment details are listed: Deployment name: Microsoft.DataFactory-20250131170656, Subscription: Free Trial, Resource group: sibabu. The deployment started at 1/31/2025, 5:13:19 PM with Correlation ID: 68734756-bd69-42ca-b75b-3097e37aab65. A table shows the resource "ksrazuredf" as a Data factory (V2) in OK status. On the right, there's a sidebar with security and learning links.

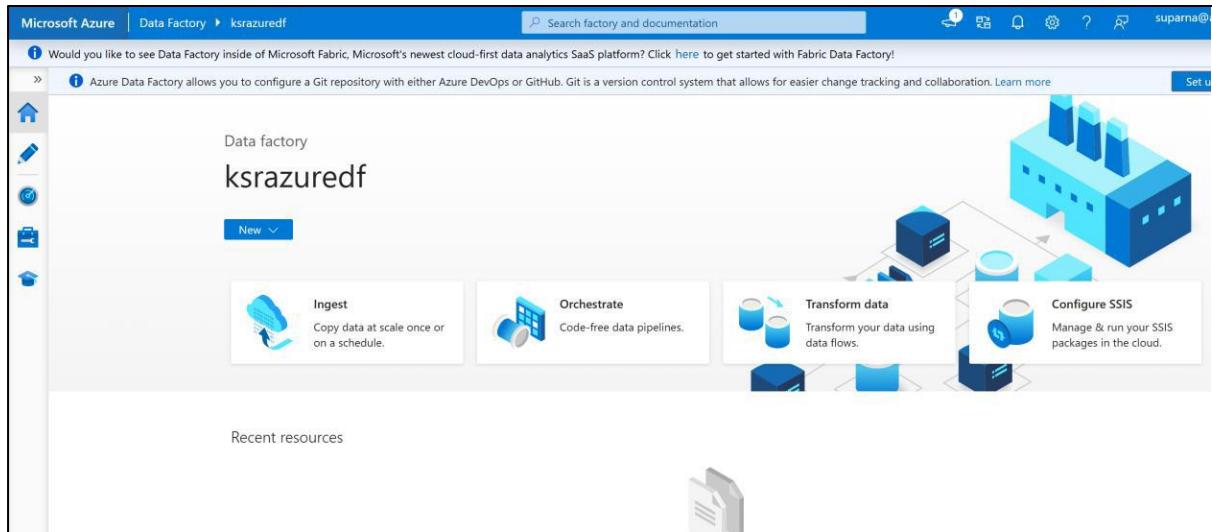
## Step 10: Now deployment completed and click on Go to resource.

The screenshot shows the Microsoft Azure Data Factory Overview page for the same deployment. A red box highlights the status message "Your deployment is complete". Below it, deployment details are listed: Deployment name: Microsoft.DataFactory-20250131170656, Subscription: Free Trial, Resource group: sibabu. The deployment started at 1/31/2025, 5:13:19 PM with Correlation ID: 68734756-bd69-42ca-b75b-3097e37aab65. A red arrow points to the "Go to resource" button in the "Next steps" section.

## Step 11: Now you'll be see this and click on Launch studio.

The screenshot shows the Microsoft Azure Data Factory resource page for the "ksrazuredf" data factory. The left sidebar lists various tabs like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Getting started, Monitoring, Automation, and Help. The "Overview" tab is selected. The main area displays "Essentials" information: Resource group: sibabu, Status: Succeeded, Location: East US, Subscription: Free Trial, and Subscription ID: 8cf3a5e-3732-4d83-91b1-3204336746ff. Below this is a large "Azure Data Factory Studio" logo with a "Launch studio" button underneath, which is highlighted with a red box.

## Step 12: Now you'll be able see the UI of ADF.



## Creation of Azure SQL Database:

### Step 1: Click on SQL Databases

The screenshot shows the Microsoft Azure homepage. At the top, there are four cards: 'Take a free online course on Microsoft Learn', 'Watch a demo and attend a live Q&A', 'Start a project with Quickstart Center', and 'Explore support resources'. Below these is a section titled 'Azure services' containing icons for 'Create a resource', 'Data factories', 'Microsoft Fabric', 'SQL databases' (which is highlighted with a red box), 'Power BI Embedded', 'Users', 'Quickstart Center', 'Azure AI services', 'Kubernetes services', and 'More services'. Underneath this is a 'Resources' section with 'Recent' and 'Favorite' tabs.

### Step 2: Click on Create SQL database

The screenshot shows the 'SQL databases' management page in Azure. The top navigation bar includes 'Home >', 'APN (ajaybabu.onmicrosoft.com)', and various management options like 'Create', 'Reservations', 'Manage view', 'Refresh', 'Export to CSV', 'Open query', 'Assign tags', and 'Delete'. Below this is a search bar and filter options for 'Subscription equals all', 'Resource group equals all', 'Location equals all', and 'Add filter'. A message indicates 'Showing 0 to 0 of 0 records.' The main area features a large 'SQL' icon and the text 'No SQL databases to display'. A descriptive paragraph explains the service's purpose: 'Utilize a fully managed relational database service, perfect for accelerating application development and simplifying management tasks.' A prominent blue 'Create SQL database' button is centered at the bottom of this section, also highlighted with a red box. There is a 'Learn more' link below it.

### Step 3: Fill the form accordingly and Click on Create New server

The screenshot shows the 'Create SQL Database' page on the Microsoft Azure portal. The 'Basics' tab is selected. A callout box highlights the 'Apply offer' button. Another callout box highlights the 'Create new' link under 'Server' in the 'Database details' section.

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* (Free Trial)

Resource group \* (sibabu) [Create new](#)

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name \* (migration)

Server \* (Select a server) [Create new](#)

### Step 4: Fill the form and click ok

The screenshot shows the 'Create SQL Database Server' page. The 'Server details' section is filled out with 'migrationonprem' as the server name and '(Asia Pacific) Central India' as the location. The 'Authentication' section has a note about Azure Active Directory being Microsoft Entra ID. It asks for preferred authentication methods, with 'Use SQL authentication' selected. The 'Server admin login' field is 'mig\_sql', and the 'Password' and 'Confirm password' fields are both masked as '\*\*\*\*\*'. A red arrow points to the 'Use SQL authentication' radio button.

Server details

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name \* (migrationonprem).database.windows.net

Location \* (Asia Pacific) Central India

Authentication

Azure Active Directory (Azure AD) is now Microsoft Entra ID. [Learn more](#)

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication [Learn more](#) using an existing Microsoft Entra user, group, or application as Microsoft Entra admin [Learn more](#), or select both SQL and Microsoft Entra authentication.

Authentication method

Use Microsoft Entra-only authentication  
 Use both SQL and Microsoft Entra authentication  
 Use SQL authentication

Server admin login \* (mig\_sql)

Password \* (\*\*\*\*\*)

Confirm password \* (\*\*\*\*\*)

OK

## Step 5: Fill the remaining portion of step 2 and click next

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > SQL databases > Create SQL Database

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name \* migration

Server \* (new) migrationonprem (Central India) Create new

Want to use SQL elastic pool? No

Workload environment  Development  Production

Default settings provided for Development workloads. Configurations can be modified as needed.

Compute + storage \* General Purpose - Serverless Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled Configure database

Backup storage redundancy Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy  Locally-redundant backup storage  Zone-redundant backup storage  Geo-redundant backup storage  Geo-Zone-redundant backup storage [Preview]

Review + create Next : Networking >

## Step 6: Select Public-end point and select Yes and then click on next

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > SQL databases > Create SQL Database

Networking Basics Security Additional settings Tags Review + create

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'migrationonprem' and all databases it manages. Learn more

Network connectivity Choose an option for configuring connectivity to your server via public endpoint or private endpoint. Choosing no access creates with defaults and you can configure connection method after server creation. Learn more

Connectivity method \*  Public endpoint  Private endpoint

Firewall rules Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. Learn more Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server \*  Yes  No

Add current client IP address \*  Yes  No

Connection policy Configure how clients communicate with your SQL database server. Learn more

Connection policy  Default - Uses Redirect policy for all client connections originating inside of Azure (except Private Endpoint connections) and Proxy for all client connections originating outside Azure  Proxy - All connections are proxied via the Azure SQL Database gateways  Redirect - Clients establish connections directly to the node hosting the database

Review + create < Previous Next : Security >

**Cost summary**

**General Purpose (GP\_S\_Gen5\_1)**

Cost per GB (in INR)	10.91
Max storage selected (in GB)	x 41.6

ESTIMATED STORAGE COST / MONTH 453.72 INR COMPUTE COST / VCORE SECOND 0.013263 INR

**NOTES**  
1 Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. Learn more about serverless billing

## Step 7: Keep this page as-is and click on next.

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > SQL databases > Create SQL Database Microsoft

Basics Networking Security Additional settings Tags Review + create

**Microsoft Defender for SQL**

Protect your data using Microsoft Defender for SQL, a unified security package including vulnerability assessment and advanced threat protection for your server. [Learn more](#)

Get started with a 30 day free trial period, and then 1247.9202 INR/server/month.

Enable Microsoft Defender for SQL  Start free trial  Not now

**Ledger**

Ledger cryptographically verifies the integrity of your data and detects any tampering that might have occurred. [Learn more](#)

Ledger  Not configured [Configure ledger](#)

**Server identity**

Use system assigned and user assigned managed identities to enable central access management between this database and other Azure resources. [Learn more](#)

Server identity  Not enabled [Configure identities](#)

**Transparent data encryption key management**

Transparent data encryption encrypts your databases, backups, and logs at rest without any changes to your application. To enable encryption, go to each database. Database level settings if enabled, will override the server level setting. [Learn more](#)

Server level key  Service-managed key selected

**Review + create** < Previous **Next : Additional settings >**

## Step 8: Keep this page as-is and click on next.

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > SQL databases > Create SQL Database Microsoft

Basics Networking Security **Additional settings** Tags Review + create

Customize additional configuration parameters including collation & sample data.

**Data source**

Start with a blank database, restore from a backup or select sample data to populate your new database.

Use existing data  None Backup Sample

**Database collation**

Database collation defines the rules that sort and compare data, and cannot be changed after database creation. The default database collation is SQL\_Latin1\_General\_CI\_AS. [Learn more](#)

Collation  SQL\_Latin1\_General\_CI\_AS [Find a collation](#)

**Maintenance window**

Select a preferred maintenance window from the drop-down. During maintenance, databases remain available, but some updates may require a failover. The system default maintenance window (5pm to 8am) limits most activities to this time, but urgent updates may occur outside of it. To ensure all updates occur only during the maintenance window, select a non-default option. [Learn more](#)

Maintenance window System default (5pm to 8am)

**Review + create** < Previous **Next : Tags >**

## Step 9: Keep this page as-is and click on review+create.

The screenshot shows the 'Create SQL Database' wizard on the 'Tags' tab. At the top, there's a navigation bar with 'Microsoft Azure' and an 'Upgrade' button. Below it, the breadcrumb trail shows 'Home > SQL databases > Create SQL Database'. The main area has tabs for 'Basics', 'Networking', 'Security', 'Additional settings', 'Tags' (which is selected and highlighted in blue), and 'Review + create'. A note below the tabs says: 'Tags are name/value pairs that enable you to categorize and view consolidated billing by applying the same tag to multiple resources and resource groups.' A 'Learn more' link is provided. Another note states: 'Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.' Below these notes is a table for managing tags:

Name	Value	Resource
[Empty input field]	[Empty input field]	2 selected

To the right of the table is a large 'SQL' logo icon. Below the logo is a 'Cost summary' section. It shows a table for 'General Purpose (GP\_S\_Gen5\_1)' with the following details:

Cost per GB (in INR)	10.91
Max storage selected (in GB)	x 41.6

Below this is another table for 'ESTIMATED STORAGE COST / MONTH' and 'COMPUTE COST / VCORE SECOND':

ESTIMATED STORAGE COST / MONTH	453.72 INR
COMPUTE COST / VCORE SECOND <sup>1</sup>	0.013263 INR

A 'NOTES' section at the bottom explains serverless billing: '1 Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. Learn more about serverless billing.'

At the bottom of the page are buttons for 'Review + create' (highlighted with a red box), '< Previous', and 'Next : Review + create >'.

## Step 10: Now click on create

The screenshot shows the 'Create SQL Database' wizard on the 'Review + create' tab. At the top, there's a navigation bar with 'Microsoft Azure' and an 'Upgrade' button. Below it, the breadcrumb trail shows 'Home > SQL databases > Create SQL Database'. The main area has tabs for 'Basics', 'Networking', 'Security', 'Additional settings', 'Tags', and 'Review + create' (which is selected and highlighted in blue). A note below the tabs says: 'By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s); (b) authorize Microsoft to bill my current payment method for services associated with the offering(s); and (c) agree that Microsoft may share my contact, usage, and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see Azure Marketplace Terms.' A 'Learn more' link is provided. Below this note is a 'Product details' section:

**Estimated cost**  
Storage cost 453.72 INR / month + Compute cost 0.013263 INR / vCore second

**Terms**  
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s); (b) authorize Microsoft to bill my current payment method for services associated with the offering(s); and (c) agree that Microsoft may share my contact, usage, and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see Azure Marketplace Terms.

**Basics**  
Subscription: Free Trial  
Resource group: sibabu  
Location: Central India  
Database name: migration  
Server: (new) migrationonprem  
Authentication method: SQL authentication  
Server admin login: mig\_sa  
Compute + storage: General Purpose - Serverless: Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled  
Backup storage redundancy: Locally-redundant backup storage

**Networking**  
Allow Azure services and resources to access this server: Yes

At the bottom of the page are buttons for 'Create' (highlighted with a red box), '< Previous', and 'Download a template for automation'.

## Step 11: Deployment is in progress

The screenshot shows the Microsoft Azure Overview page for a deployment named "Microsoft.SQLDatabase.newDatabaseNewServer\_7f4699618fd54a9dbb642". A red box highlights the message "Deployment is in progress". Below it, deployment details are listed: Resource name "migrationonprem", Type "Microsoft.Sql/servers", Status "Accepted", and Operation details "Operation details".

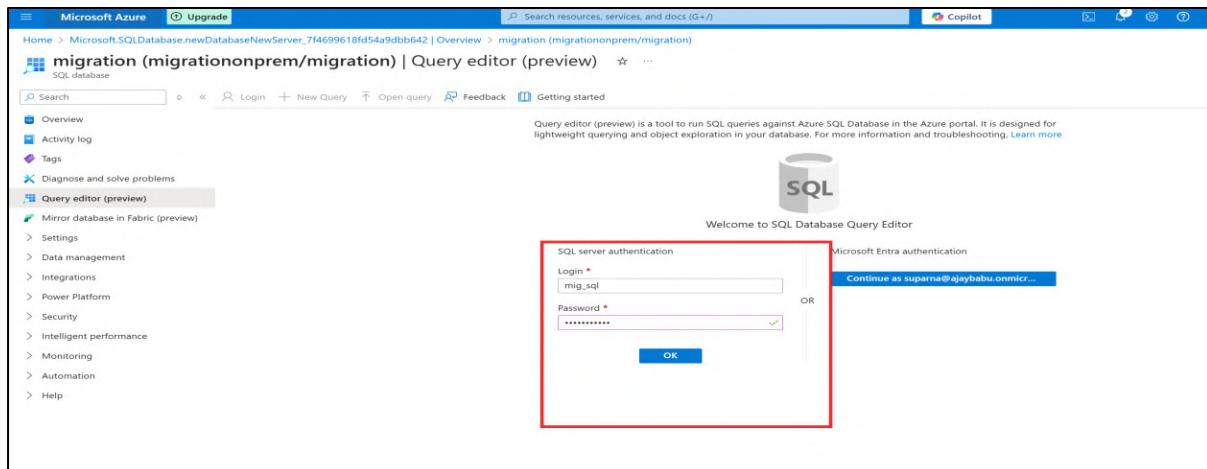
## Step 12: Deployment succeeded and click on Go to resource

The screenshot shows the Microsoft Azure Overview page for the same deployment. A red box highlights the message "Your deployment is complete". To the right, a sidebar displays a success message: "Deployment 'Microsoft.SQLDatabase.newDatabaseNewServer\_7f469...' to resource group 'sibabu' was successful." A red box highlights the "Go to resource" button.

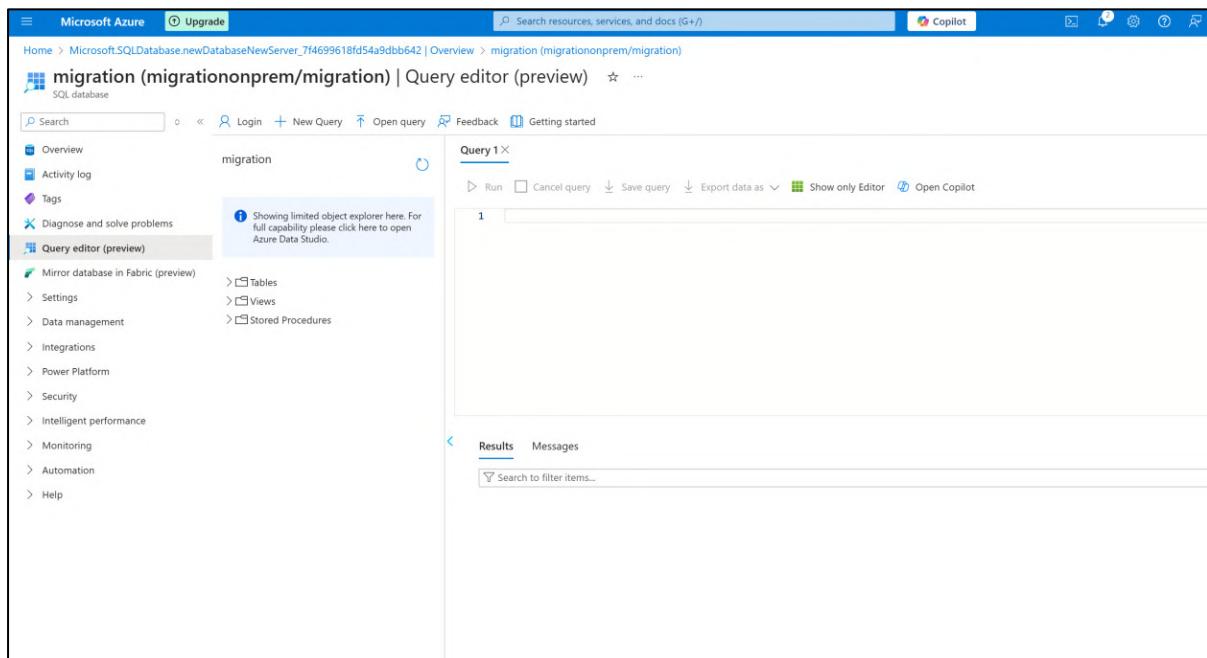
## Step 13: Now you are able to view SQL Database UI and click on Query editor

The screenshot shows the Microsoft Azure SQL Database Overview page for the "migration" database. A red box highlights the "Query editor (preview)" link under the "Diagnose and solve problems" section. The main page displays database settings and a "Start working with your database" section with four buttons: "Configure access", "Connect to application", "Start developing", and "Mirror database".

## Step 14: Now enter your credentials and click on OK

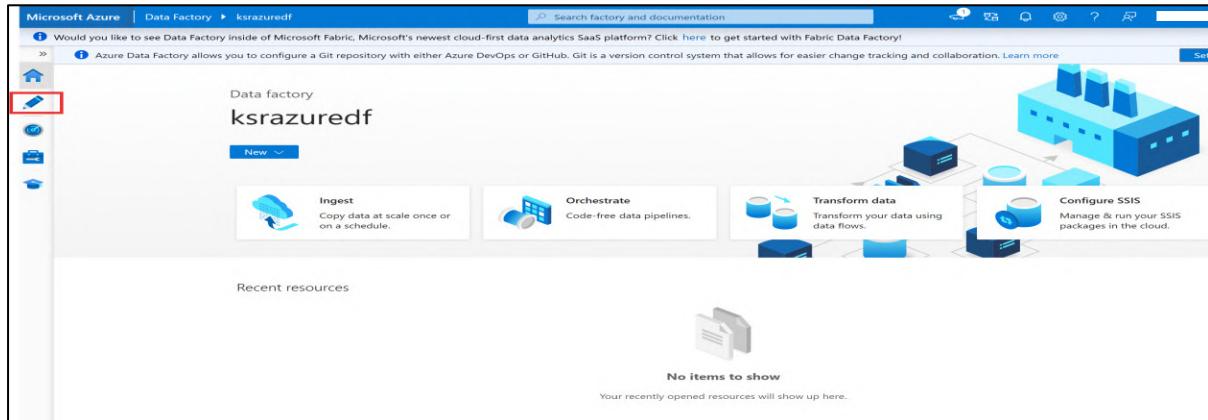


## Step 15: Now you are able to view SQL Database Editor.

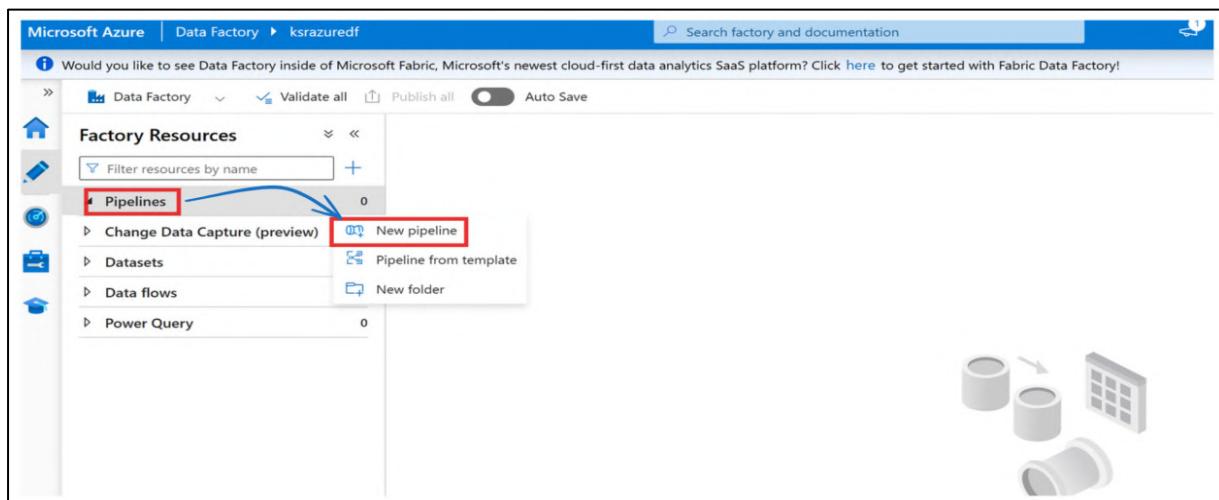


## Now we can start the process of implementing the process of migration

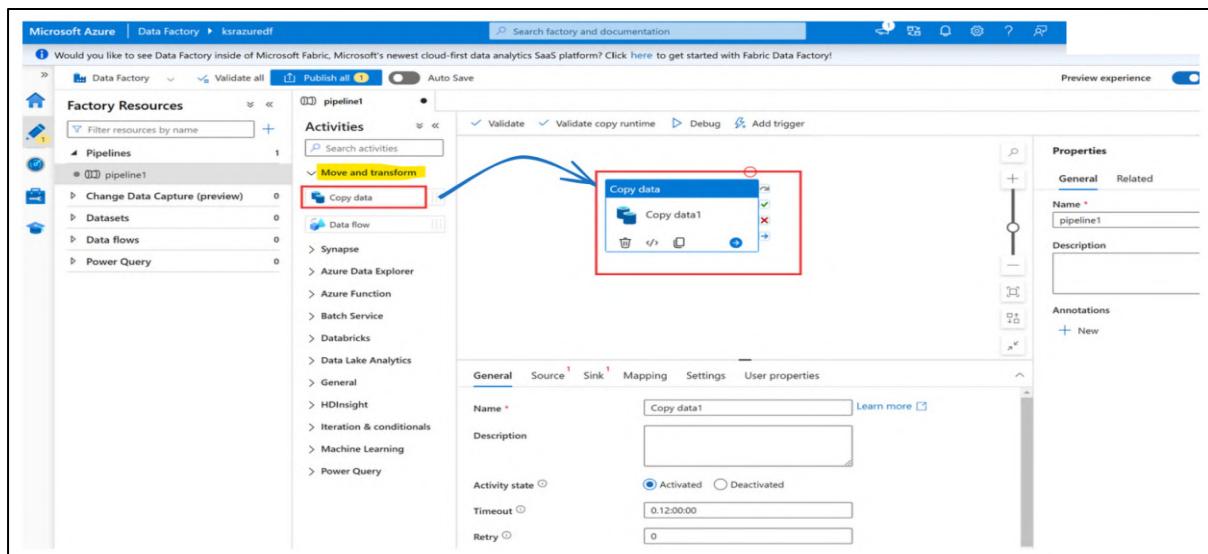
### Step 1: Click on pencil icon



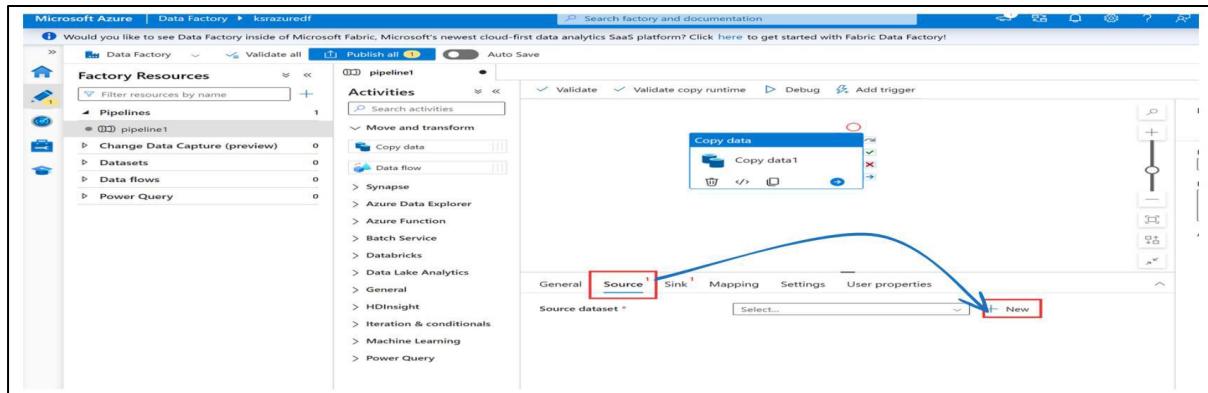
### Step 2: After clicking Pencil Icon Now you click on Pipelines and click on New pipeline



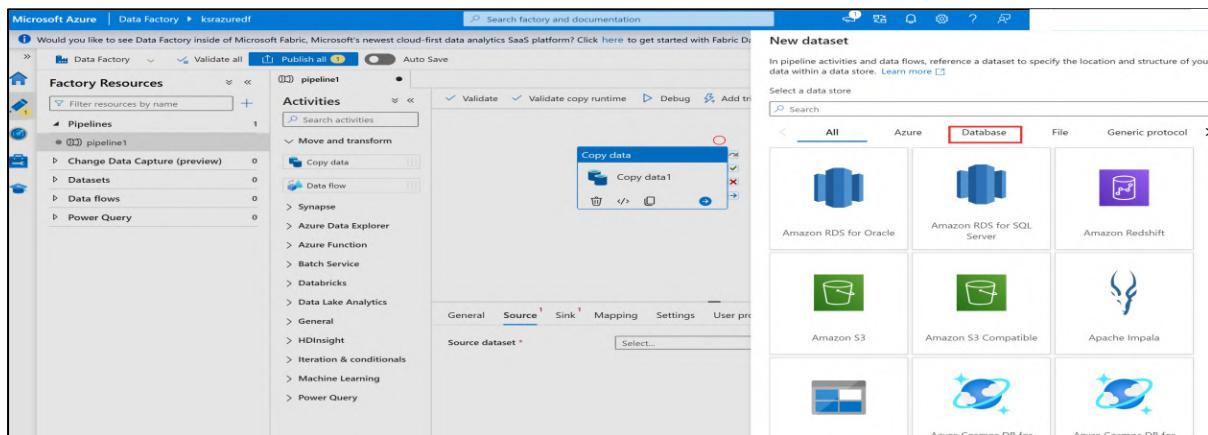
### Step 3: Click on dropdown of Move and Transform then drag the Copy data into canvas



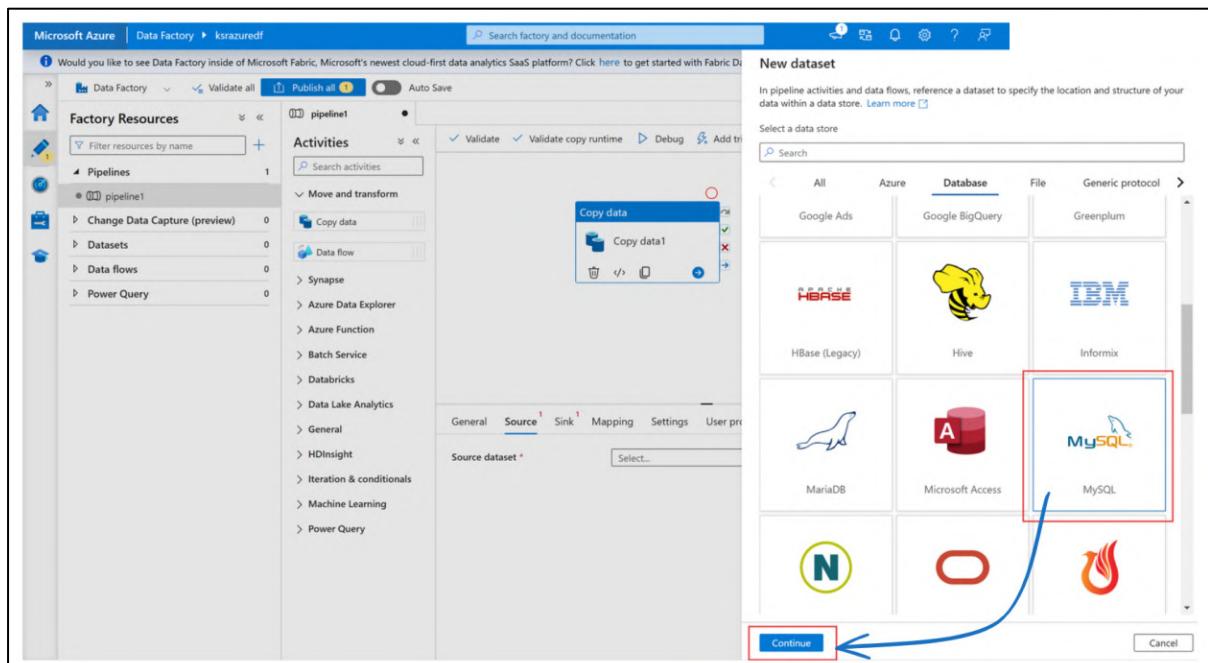
#### Step 4: Now click on Source followed by New



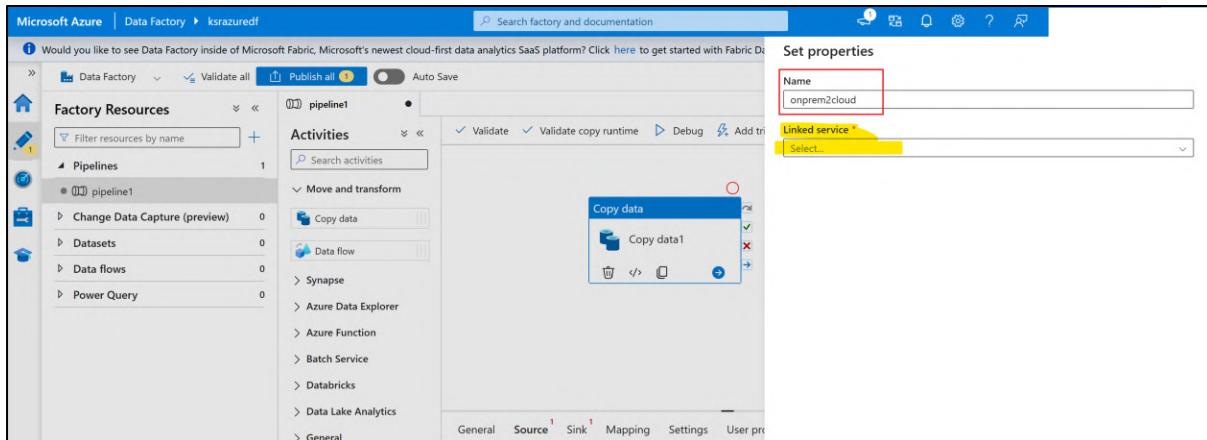
#### Step 5: After clicking on new it'll show like this now click on Database



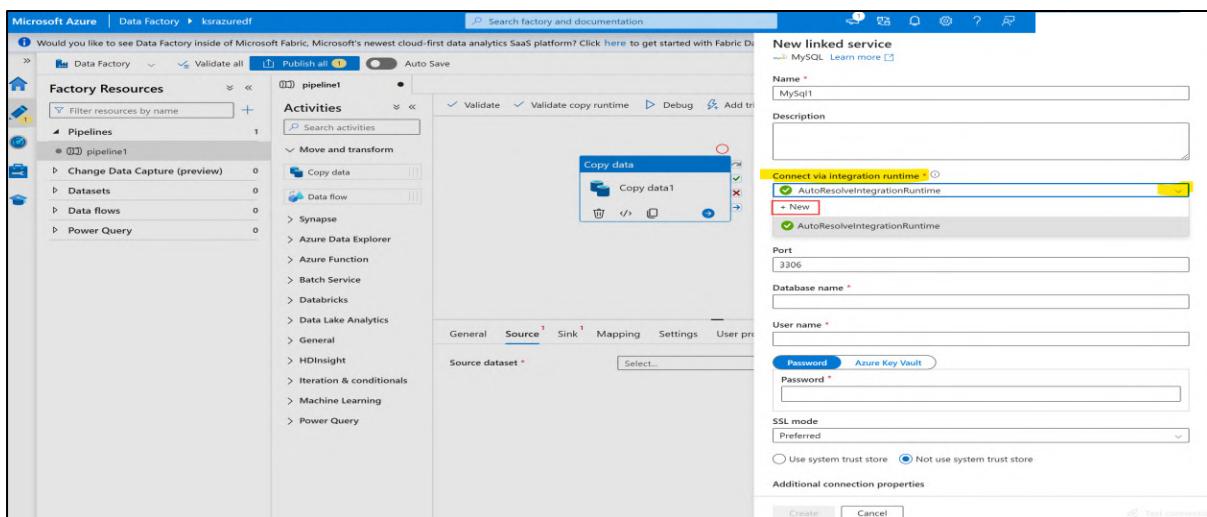
#### Step 6: Scroll down and choose MySQL and click continue



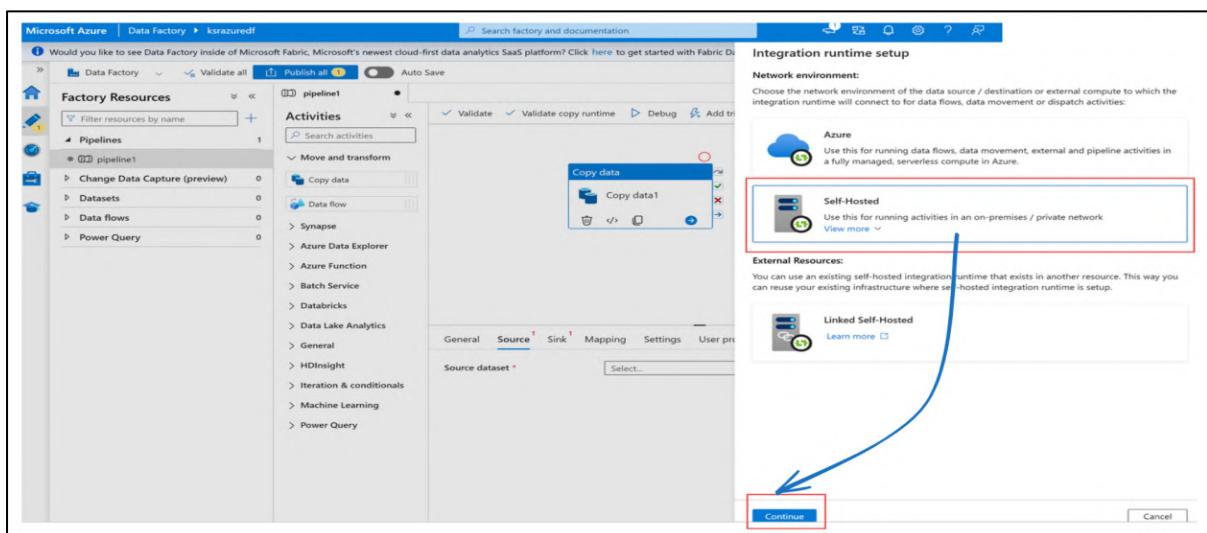
## Step 7: Keep a proper name and click on drop down and create new linked service



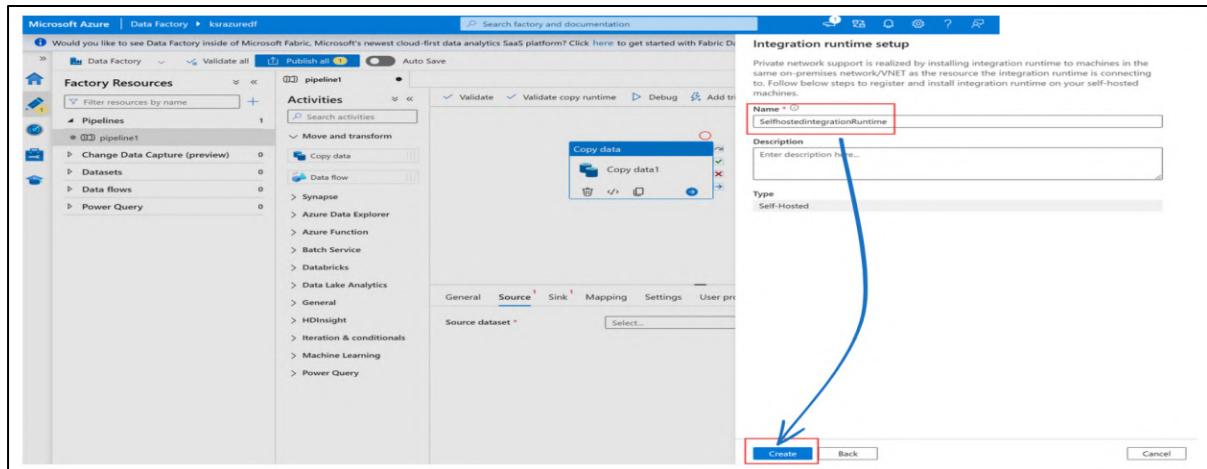
## Step 8: Now you'll be see this screen, click on Connect via integration runtime dropdown and click new



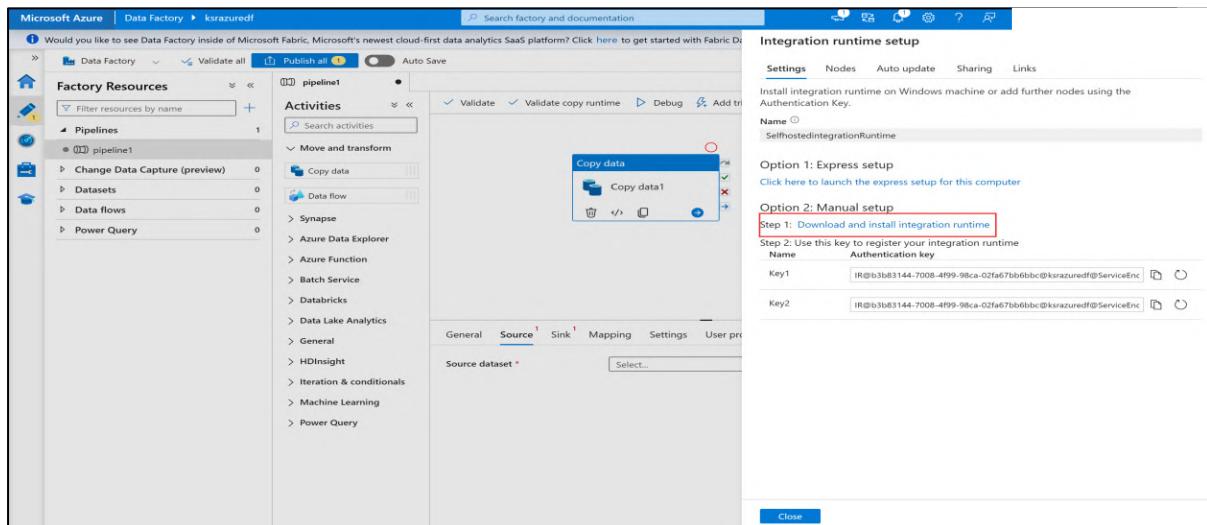
## Step 9: Select Sel-Hosted integration runtime setup and click continue



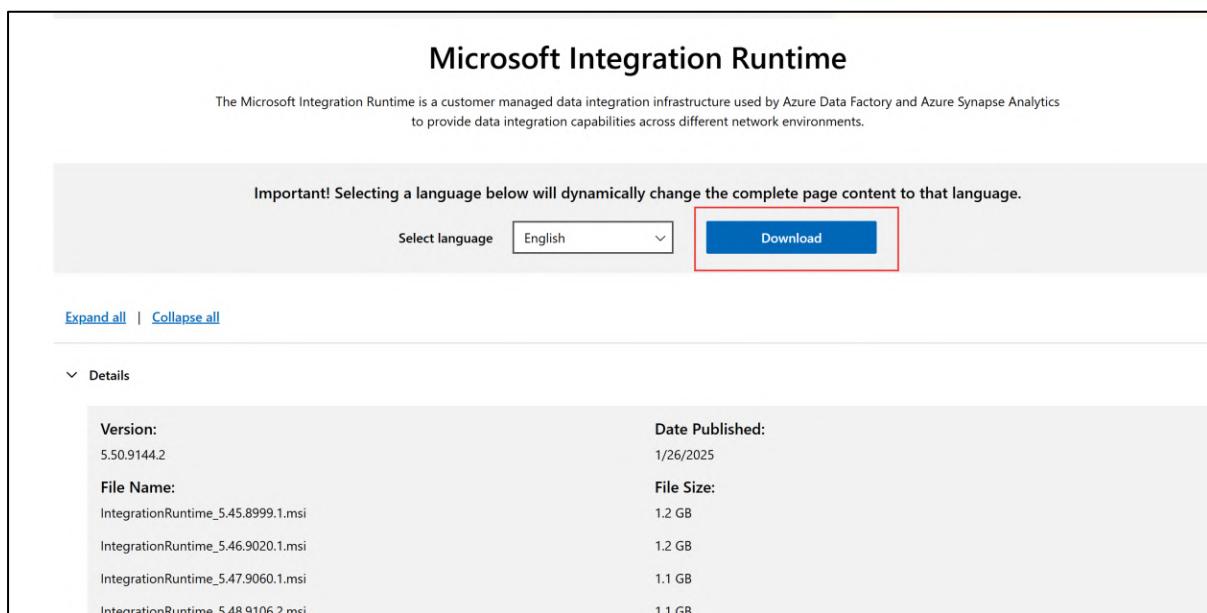
## Step 10: Put proper name and click on Create



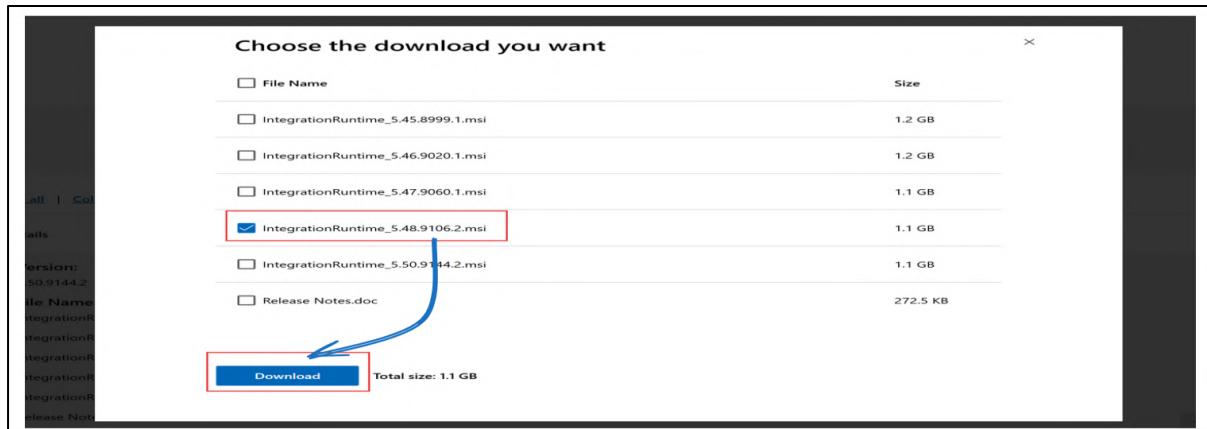
## Step 11: Now Click on download and install integration runtime software



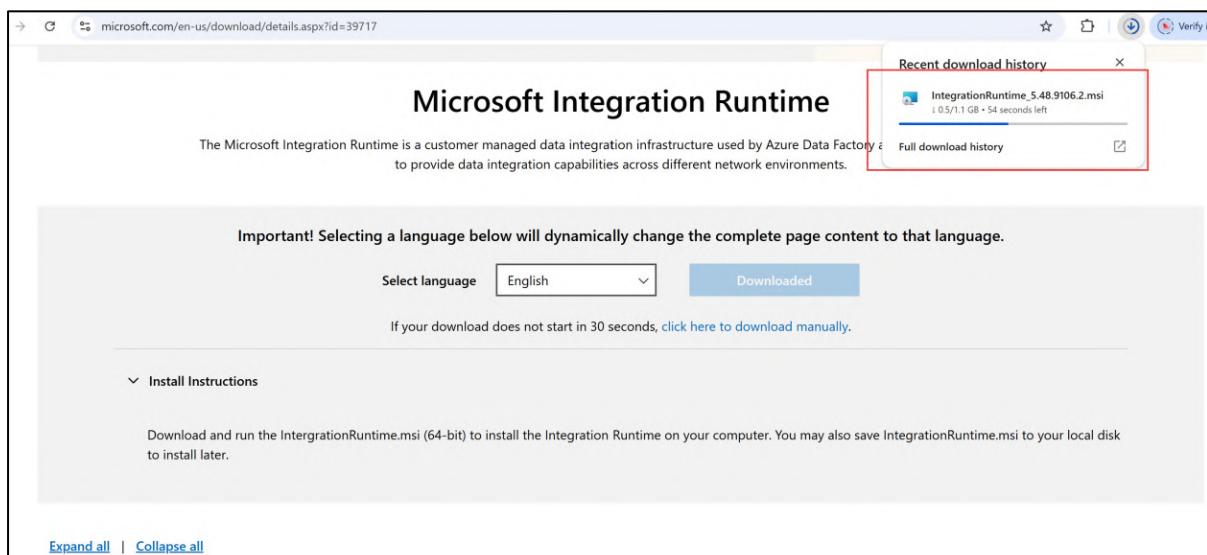
## Step 12: After clicking on it now you will see this screen and click on download.



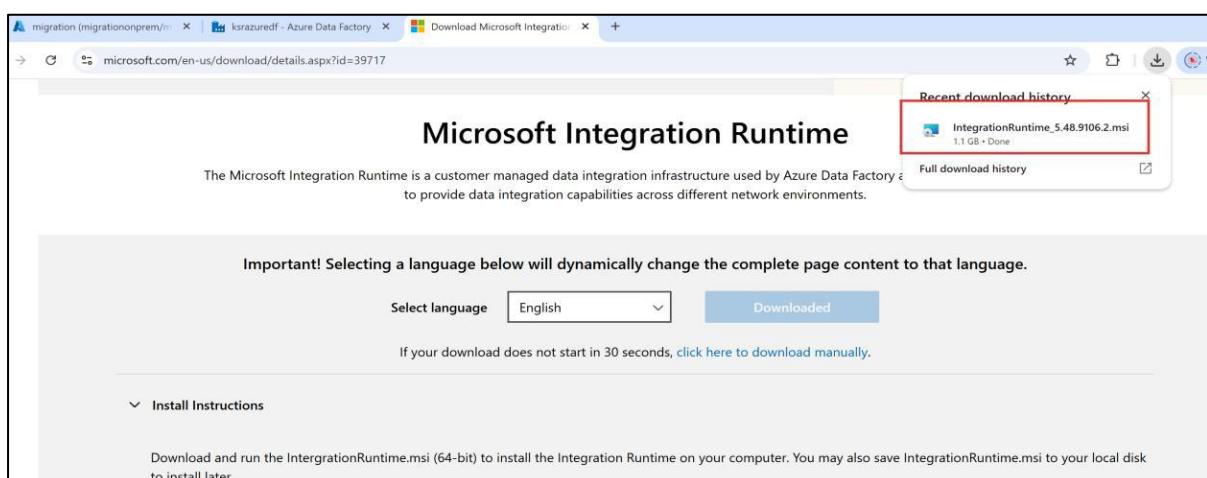
### Step 13: Select proper version and click on download



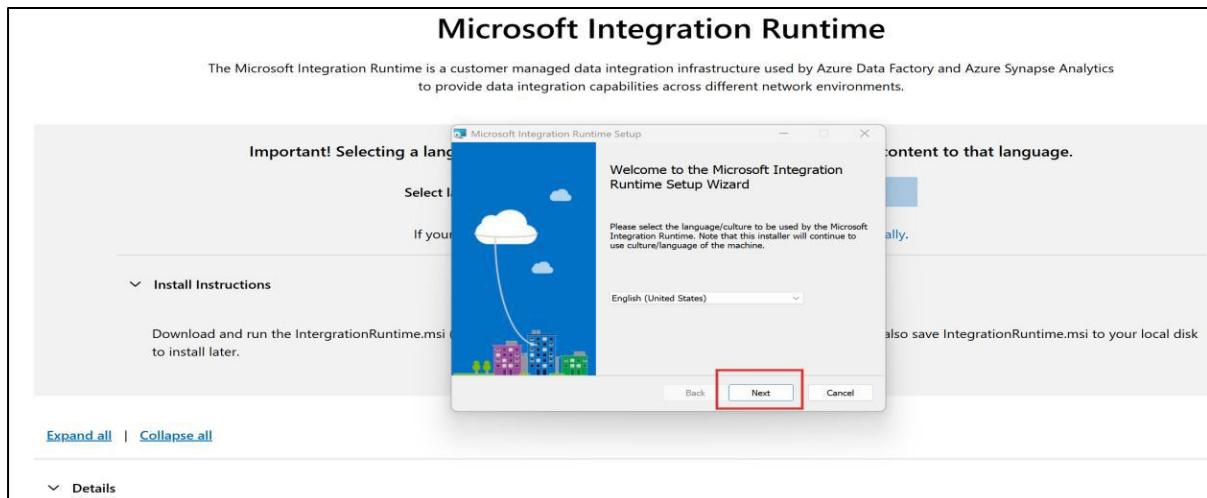
### Step 14: Software download is in progress



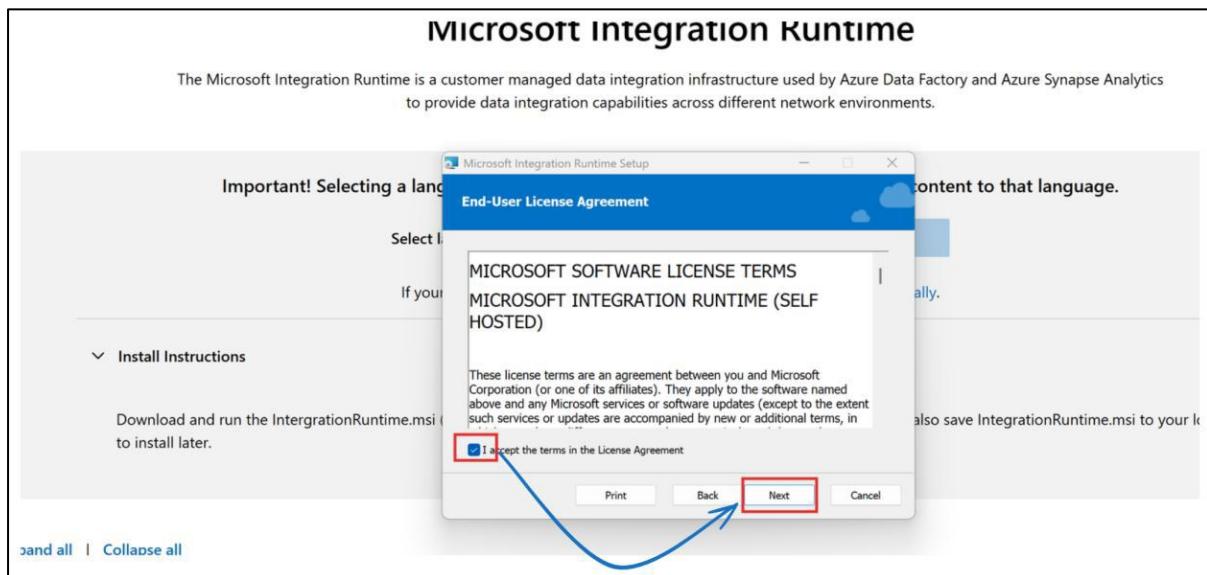
### Step 15: Download completed



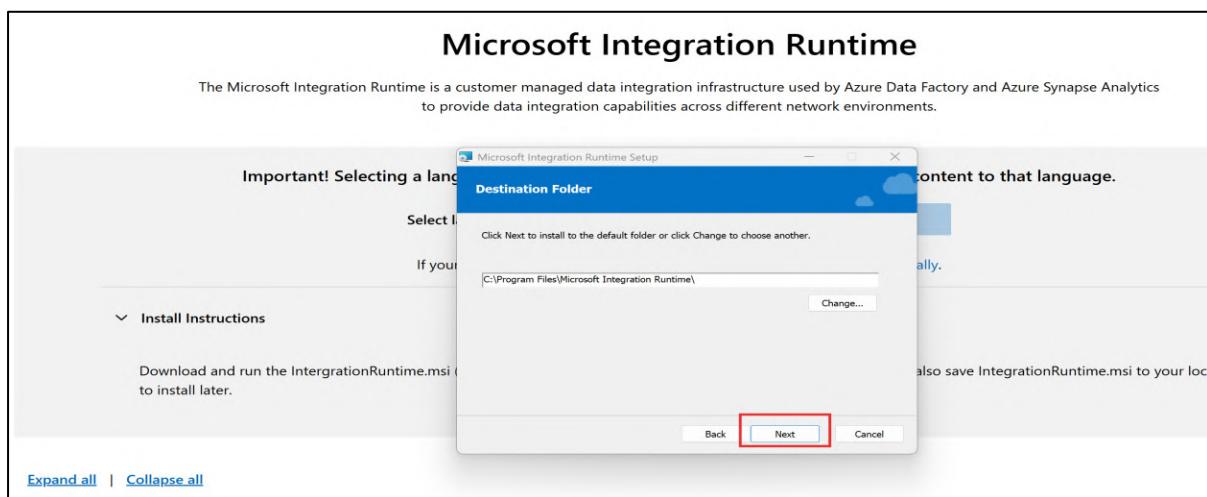
## Step 16: Now install the software by clicking next



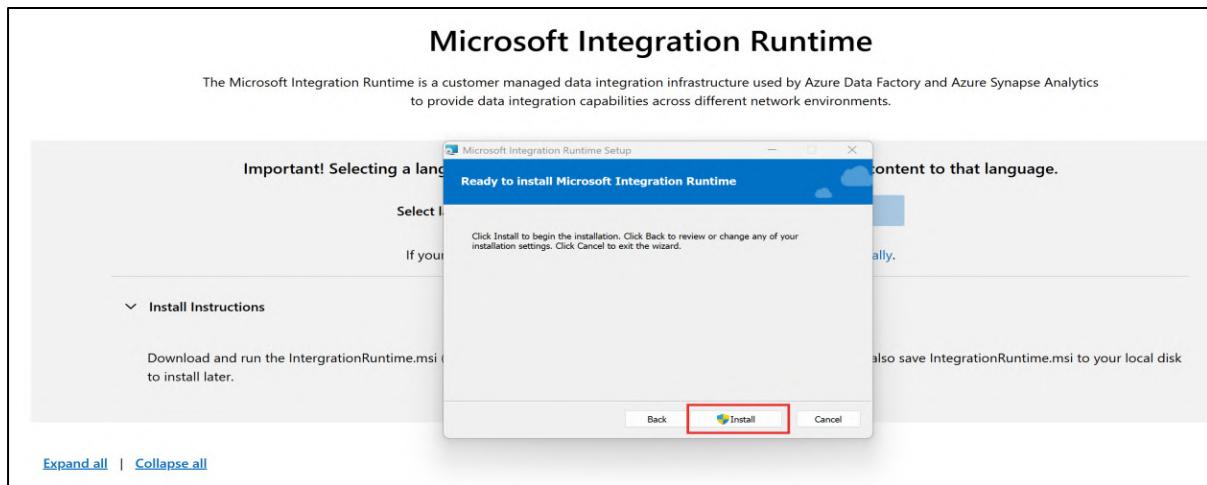
## Step 17: Select check box and click next



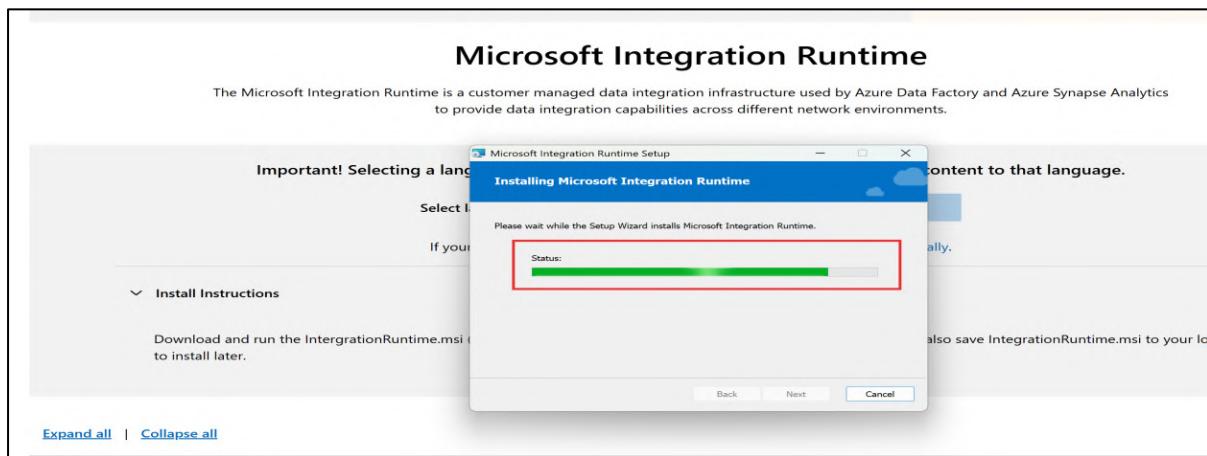
## Step 18: Again, click next



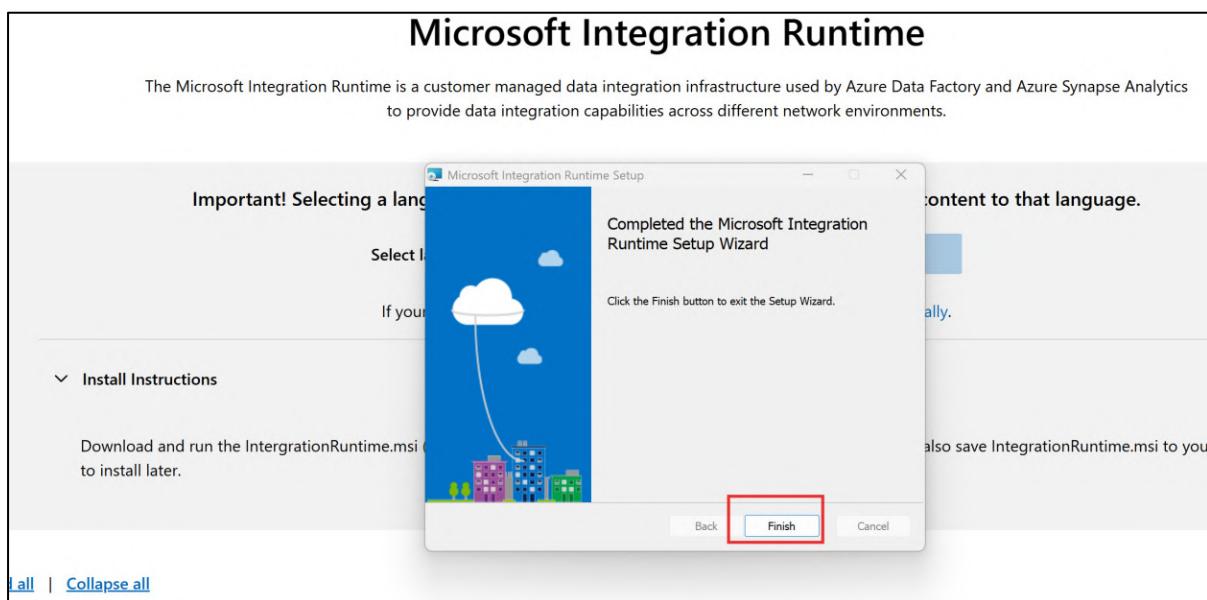
## Step 19: Now click on Install



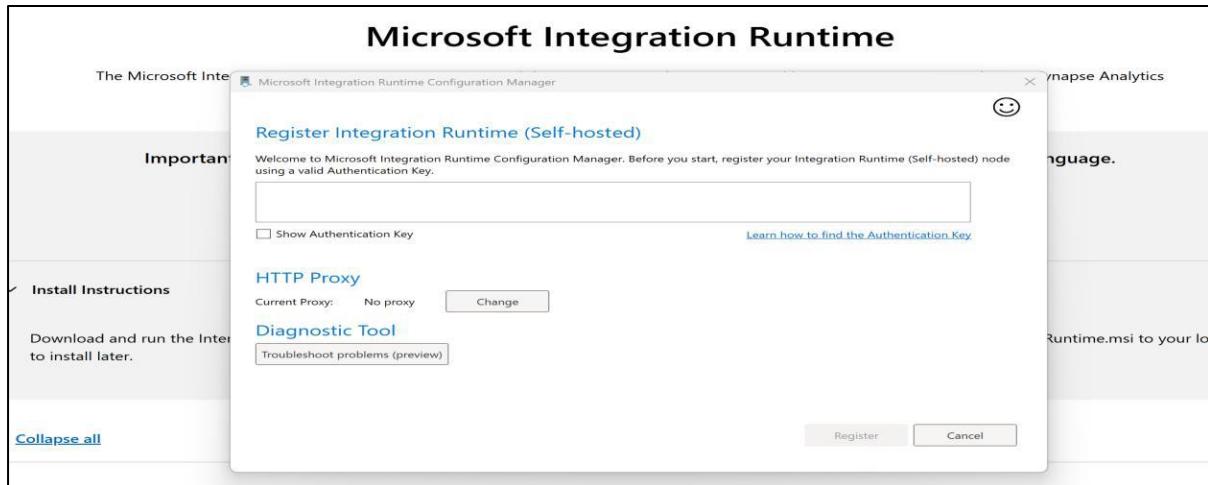
## Step 20: Now installation is in progress



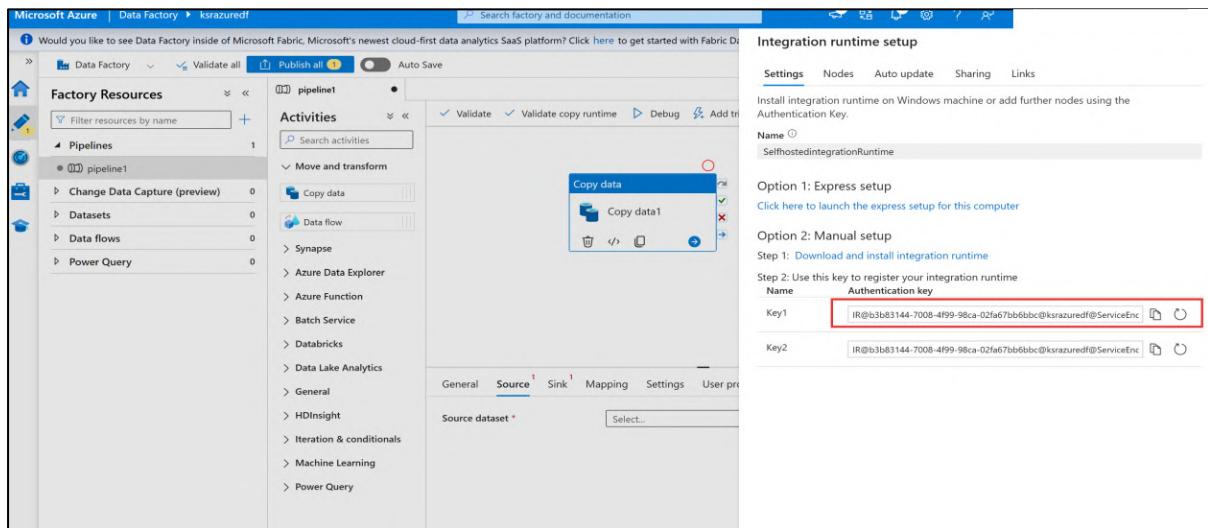
## Step 21: Now installation completed and click on Finish



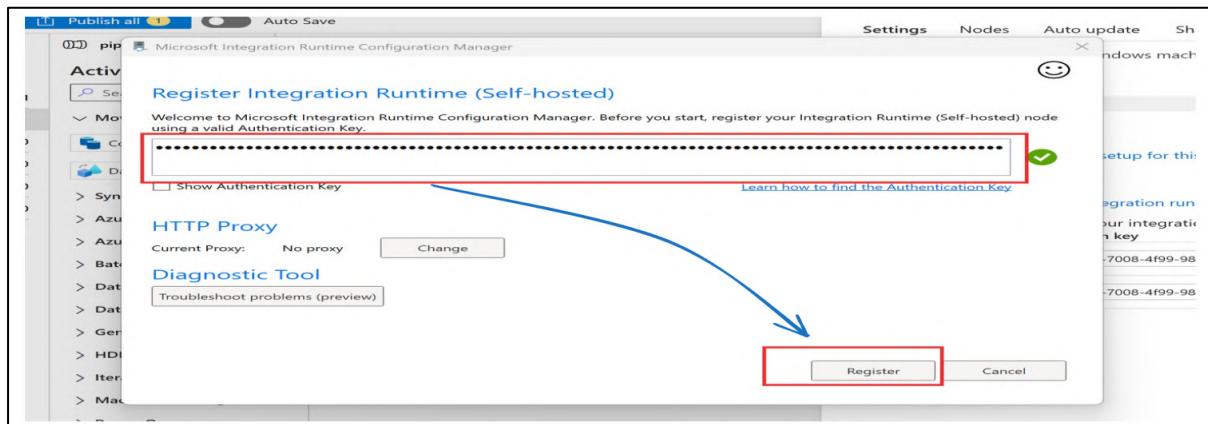
**Step 22: After clicking finish then it will open like this.**



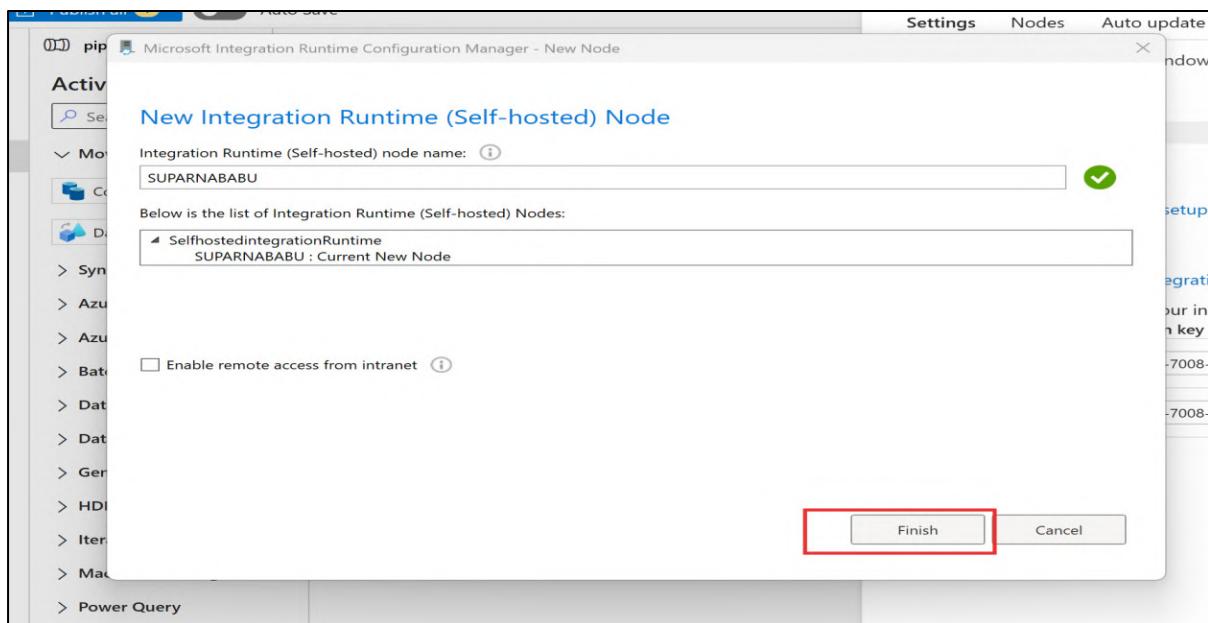
**Step 23: Now navigate to ADF tab and copy the code**



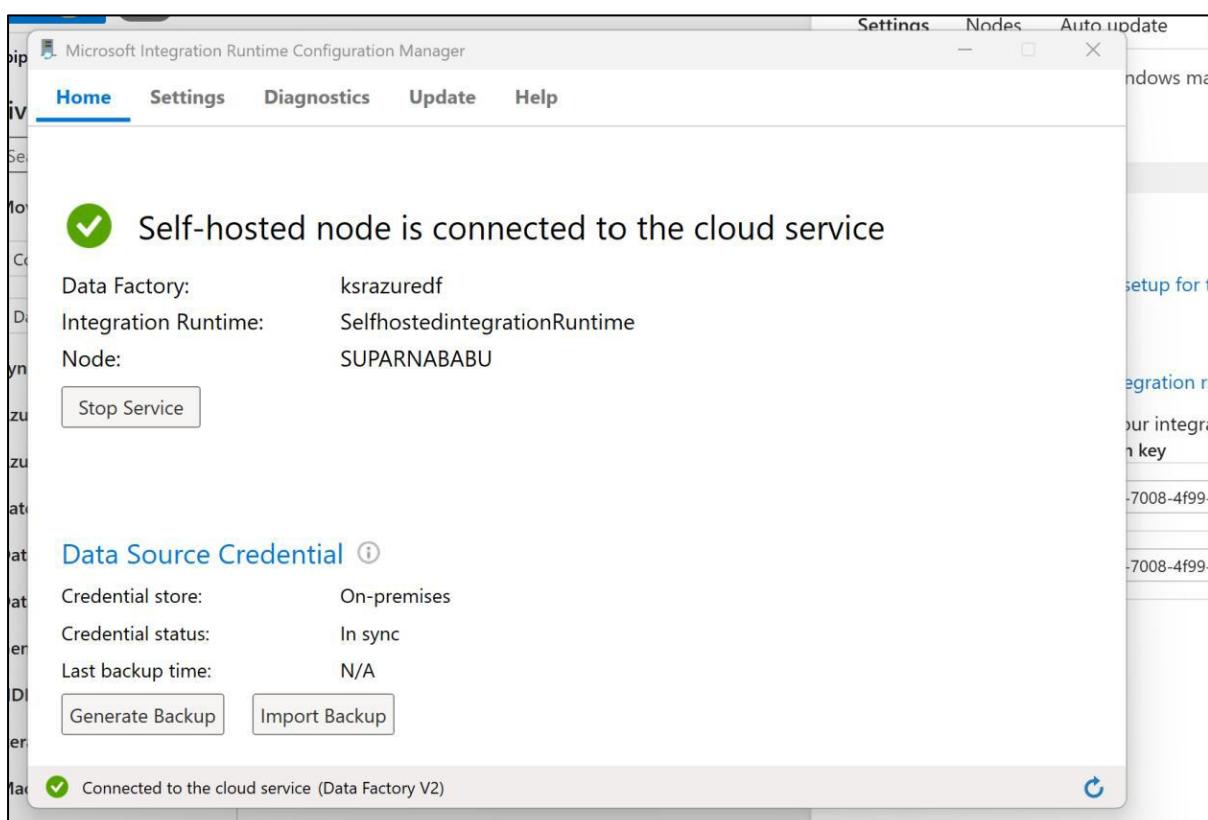
**Step 24: Paste that key in the box and click on register**



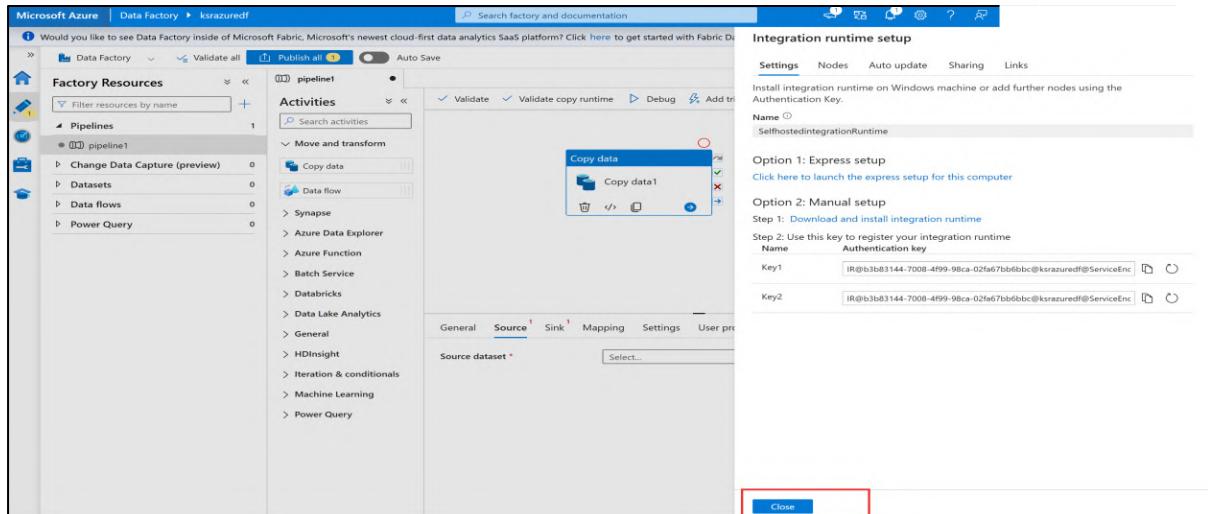
## Step 25: Now click on Finish



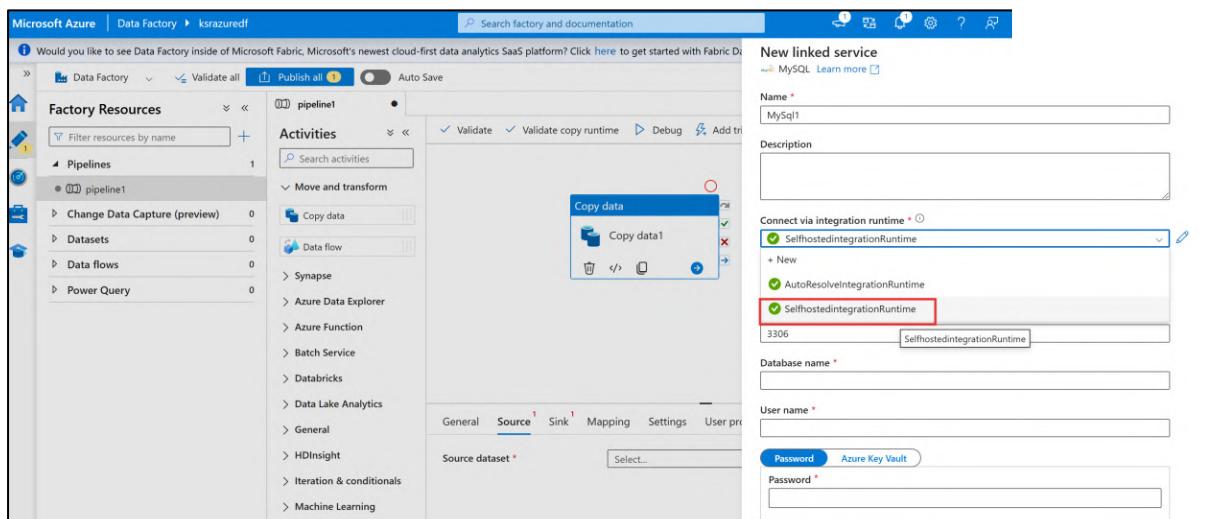
## Step 26: After clicking on Finish then click Launch Configuration manager



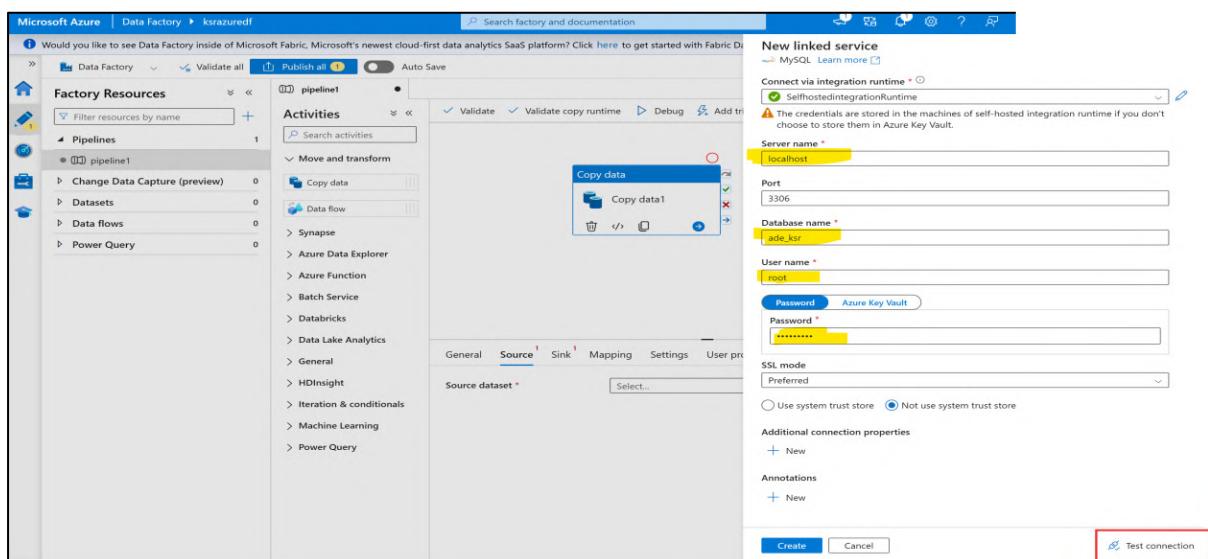
## Step 27: Now navigate to ADF tab and click close



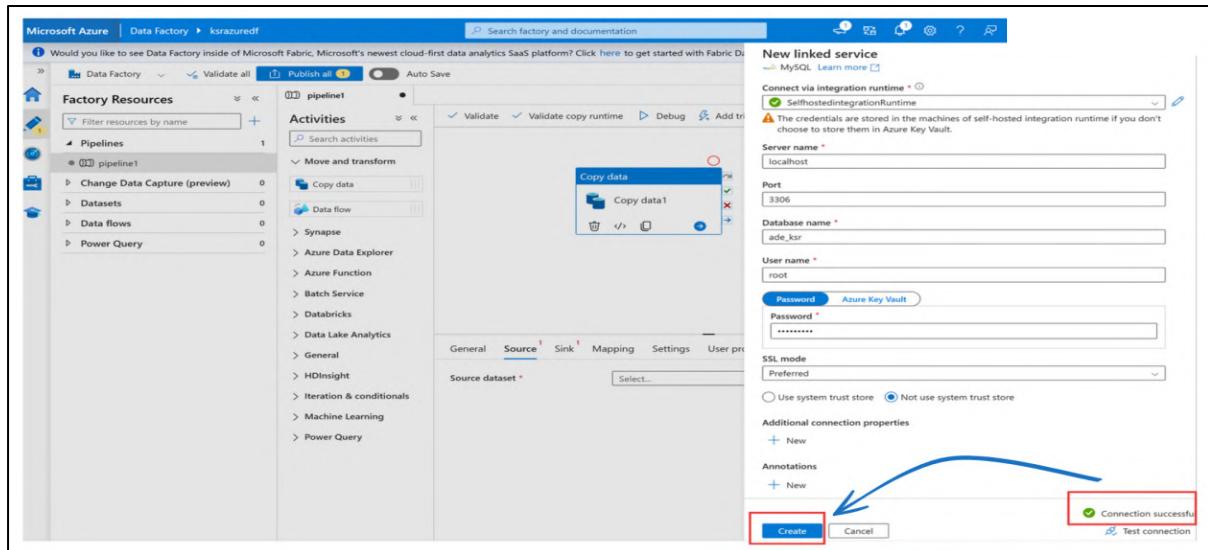
## Step 28: Now select selfhosted integration run time.



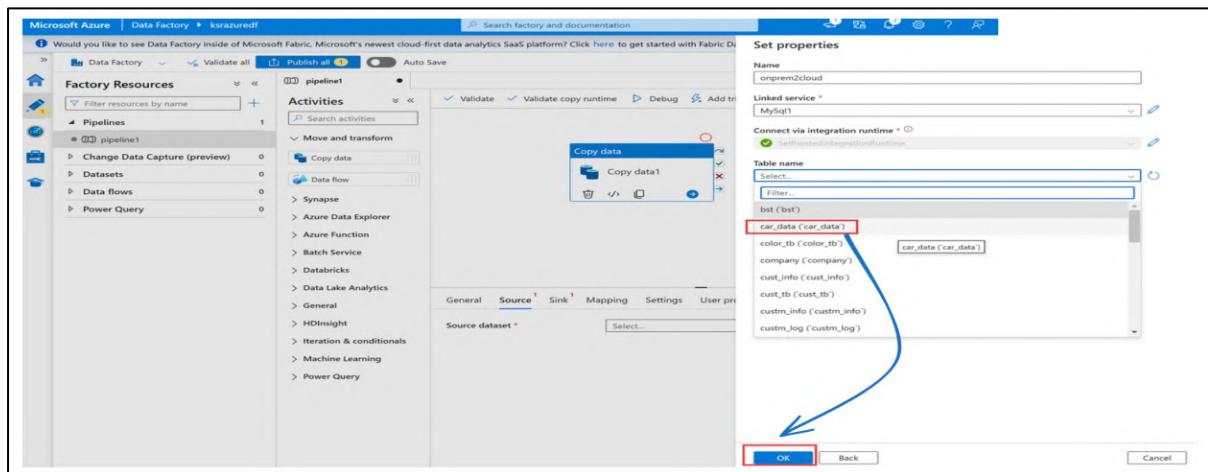
## Step 29: After filling the form Click on test connection



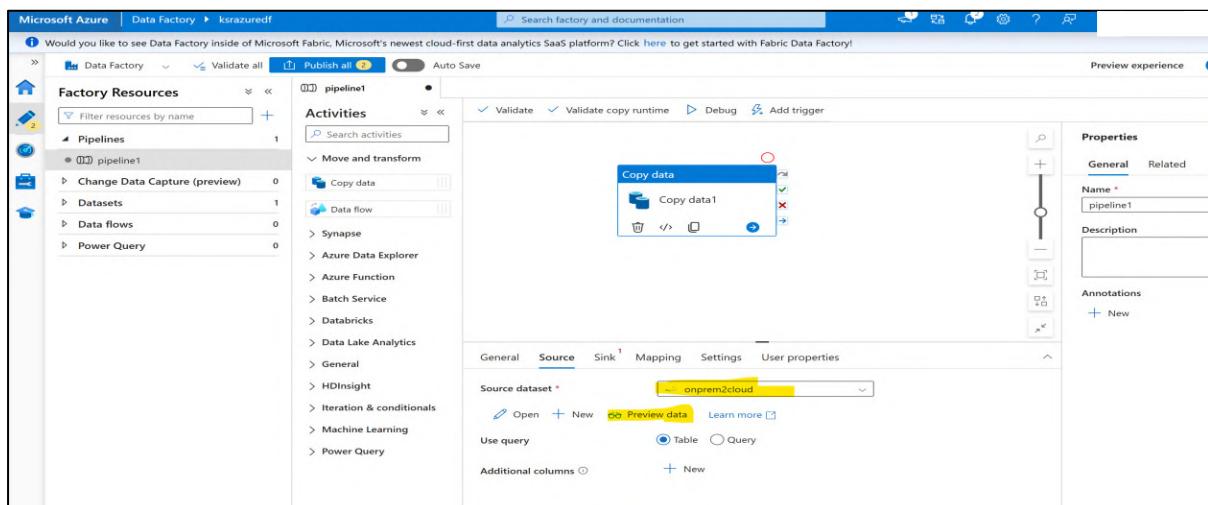
## Step 30: Once test connection successful click on Create



## Step 31: select any one of table and click ok



## Step 32: Now click on Preview Data to view the sample data



### Step 33: Now you will be able to view the sample data

The screenshot shows the Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (1), 'Datasets' (1), 'Data flows' (0), and 'Power Query' (0). The main area displays the 'Activities' pane for a pipeline named 'pipeline1'. A red box highlights the 'Preview data' section, which shows a table titled 'Linked service: MySql1' with an object named 'car\_data'. The table contains 10 rows of car data with columns: Car\_Name, Year, Selling\_Price, Present\_Price, Kms\_Driven, Fuel\_Type, Seller\_Type, and Transmission. The data includes various car models like ritz, sx4, ciaz, etc., from different years and with different prices and fuel types.

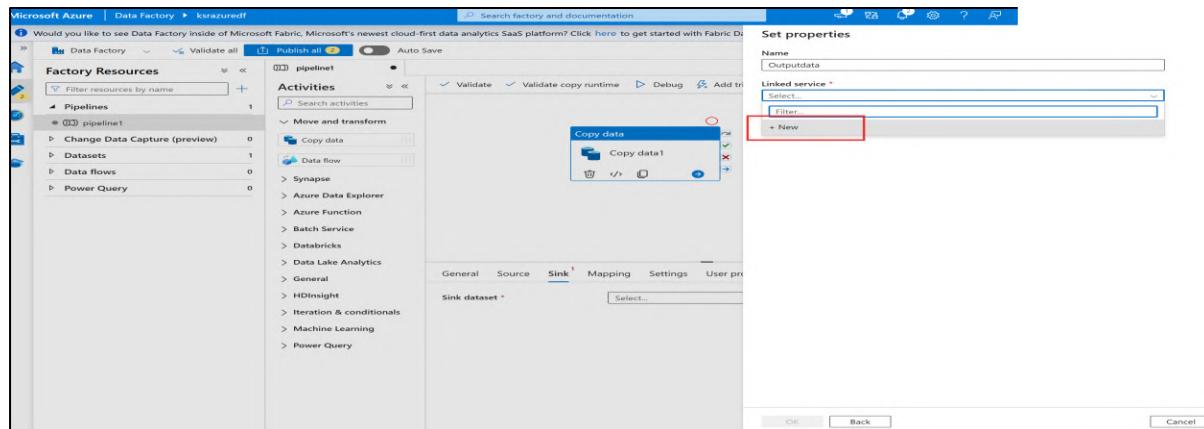
### Step 34: Now close the sample data and click on sink followed by click on New

The screenshot shows the Azure Data Factory pipeline editor with the 'Copy data' activity selected in the activities list. The 'Sink' tab is highlighted with a red box. Below it, a 'Sink dataset' dropdown is open, showing a 'Select...' option and a '+ New' button, also highlighted with red boxes. The 'Properties' panel on the right shows the pipeline name as 'pipeline1'.

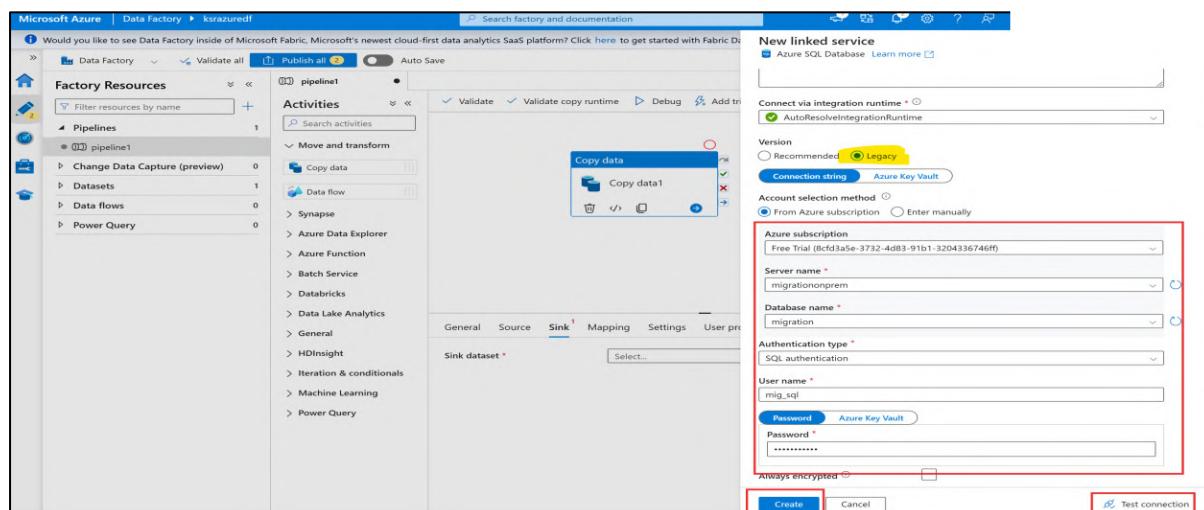
### Step 35: Now select Azure SQL Database and click on Continue

The screenshot shows the 'New dataset' configuration dialog. In the 'Select a data store' section, the 'Azure Database for MySQL' and 'Azure Database for PostgreSQL' options are visible. The 'Azure SQL Database' icon is highlighted with a red box. At the bottom right of the dialog, a blue 'Continue' button is highlighted with a red box.

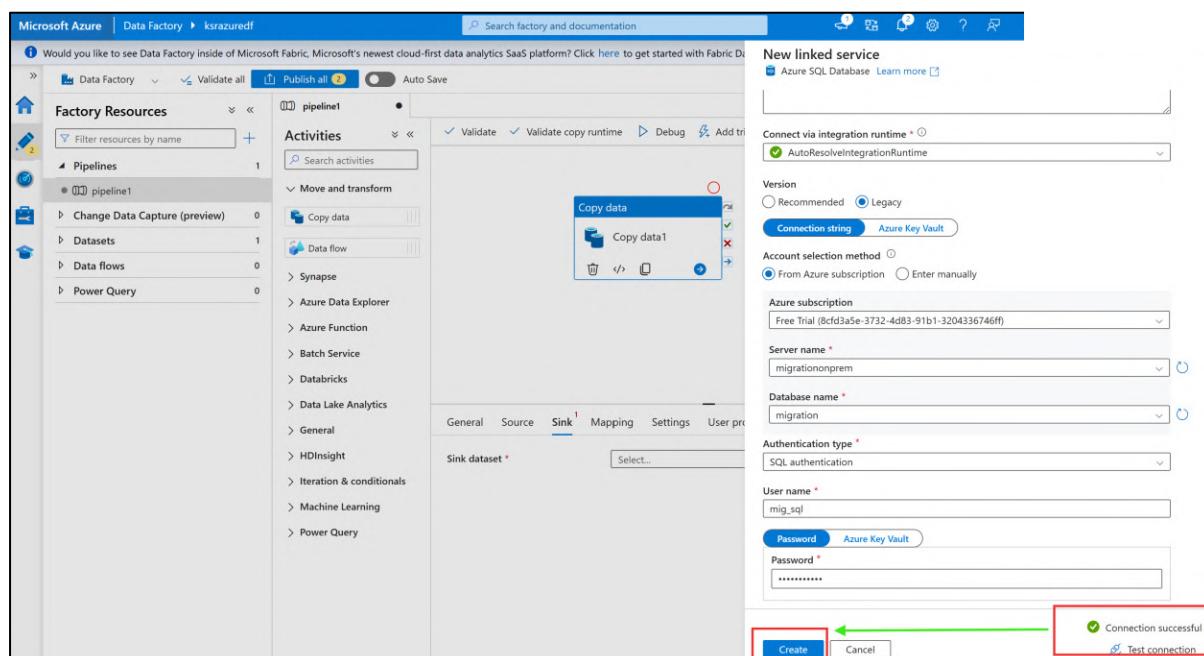
## Step 36: Give proper name and Click on Dropdown of linked service and select new.



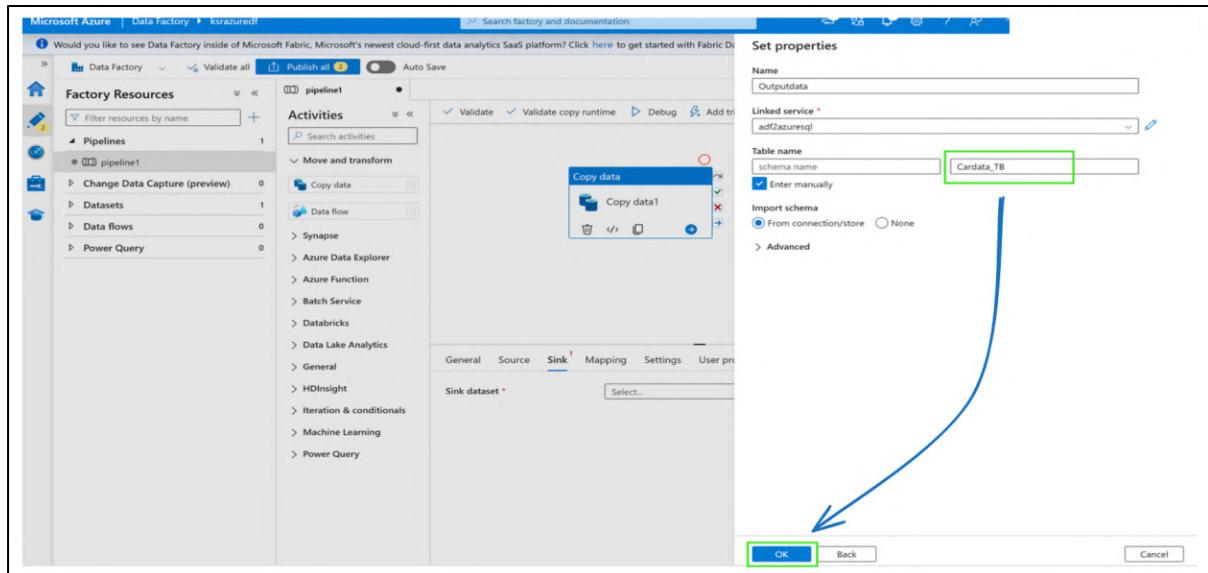
## Step 37: Fill the form and click on Test Connection



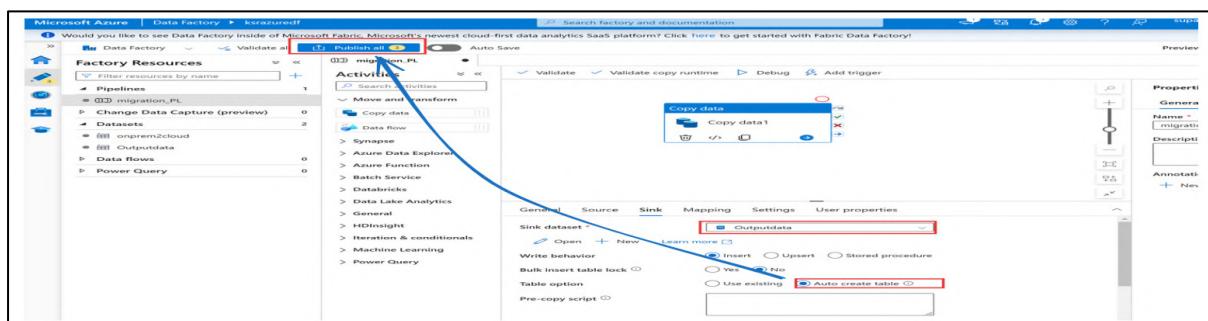
## Step 38: Test Connection successful and now click on Create



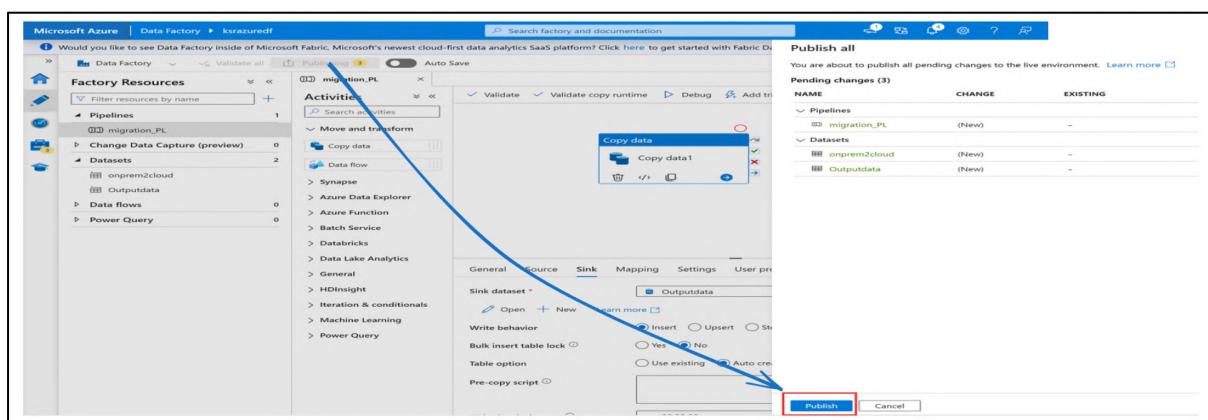
### Step 39: Give proper table name and Click Ok



### Step 40: Select Auto Create Table the click on Publish all



### Step 41: After clicking on Publish now click on Publish



## Step 42: Published successfully

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists Pipelines, Datasets, Data flows, and Power Query. A pipeline named 'migration\_PL' is selected. The main workspace displays the 'Activities' section with a 'Copy data' activity. The 'Sink' tab is active, showing configuration for the sink dataset 'Outputdata', write behavior (Insert), and bulk insert table lock (No). The 'Notifications' pane on the right shows a success message: 'Publishing completed Successfully published a few seconds ago'.

## Step 43: Add trigger-> Trigger now

The screenshot shows the Microsoft Azure Data Factory interface. The 'Add trigger' dialog is open, with the 'Trigger now' option highlighted by a red box. The pipeline editor shows the 'migration\_PL' pipeline with its copy activity configuration. The 'Sink' tab is selected, showing settings for Outputdata, Insert write behavior, and No bulk insert table lock.

## Step 44: Click on ok

The screenshot shows the Microsoft Azure Data Factory interface. The 'Pipeline run' dialog is open, with the 'Trigger pipeline now using last published configuration' message visible. The 'OK' button is highlighted by a red box. The pipeline editor shows the 'migration\_PL' pipeline with its copy activity configuration. The 'Sink' tab is selected, showing settings for Outputdata, Insert write behavior, and No bulk insert table lock.

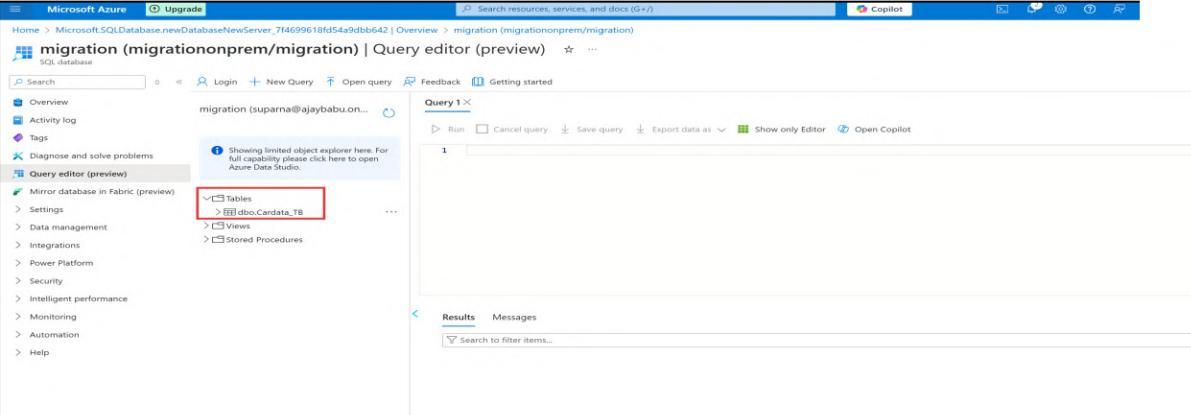
## Step 45: Pipeline running and click on View pipeline to view the status

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (migration\_PL), 'Datasets' (onprem2cloud, Outputdata), and other components. The main workspace displays the 'migration\_PL' pipeline. A 'Copy data' activity is selected, showing its configuration: Sink dataset is set to 'Outputdata', Write behavior is 'Insert', Bulk insert table lock is 'No', and Table option is 'Auto create'. To the right, the 'Notifications' sidebar shows a red-bordered notification for a 'Running' pipeline run, indicating it is successfully running migration\_PL.

## Step 46: Pipeline run succeeded

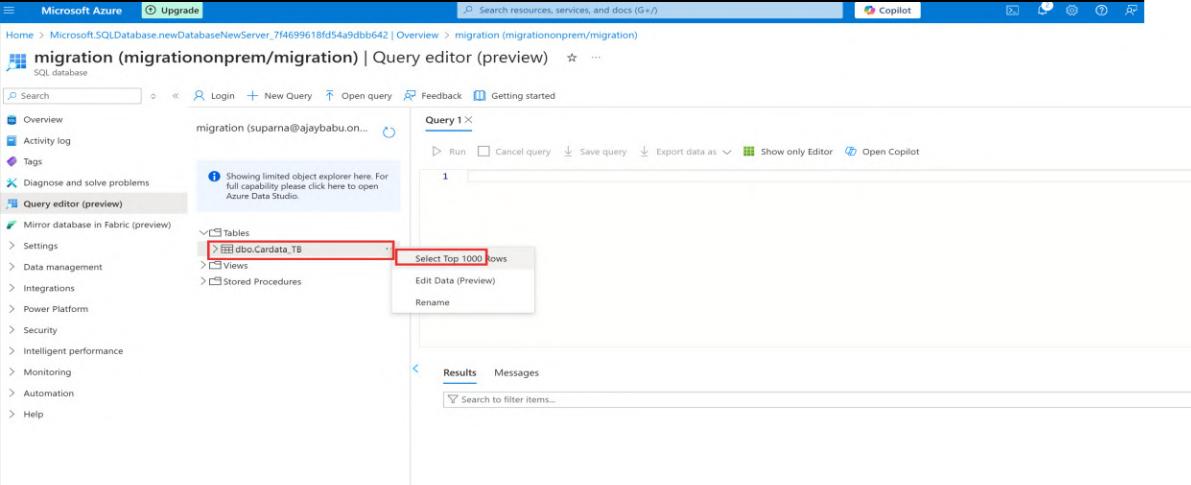
The screenshot shows the Microsoft Azure Data Factory 'Pipeline runs' page. The left sidebar includes 'Runs', 'Pipeline runs' (selected), 'Trigger runs', 'Change Data Capture (preview)', 'Runtimes & sessions', 'Integration runtimes', 'Data flow debug', 'Notifications', and 'Alerts & metrics'. The main area shows the 'All pipeline runs' section for 'migration\_PL - Activity runs'. It displays a summary of the pipeline run, including the status 'Run Succeeded' (with a green checkmark icon) and a message 'Successfully ran migration\_PL (Pipeline). View pipeline run'. Below this, the 'Activity runs' table shows one item: 'Copy data1' with a status of 'Succeeded' (also highlighted with a red box). To the right, the 'Pipeline run details' pane provides information about the run, such as 'Run by Manual trigger', 'Start time 1/31/2025, 6:53:16 PM', 'End time 1/31/2025, 6:53:50 PM', 'Status Succeeded', and 'Pipeline run ID 07785e44-484d-4efb-81e0-e8'.

**Step 47: Now navigate to Azure SQL Database editor tab. You'll be able to view the table which was in on-prem moved to Cloud.**



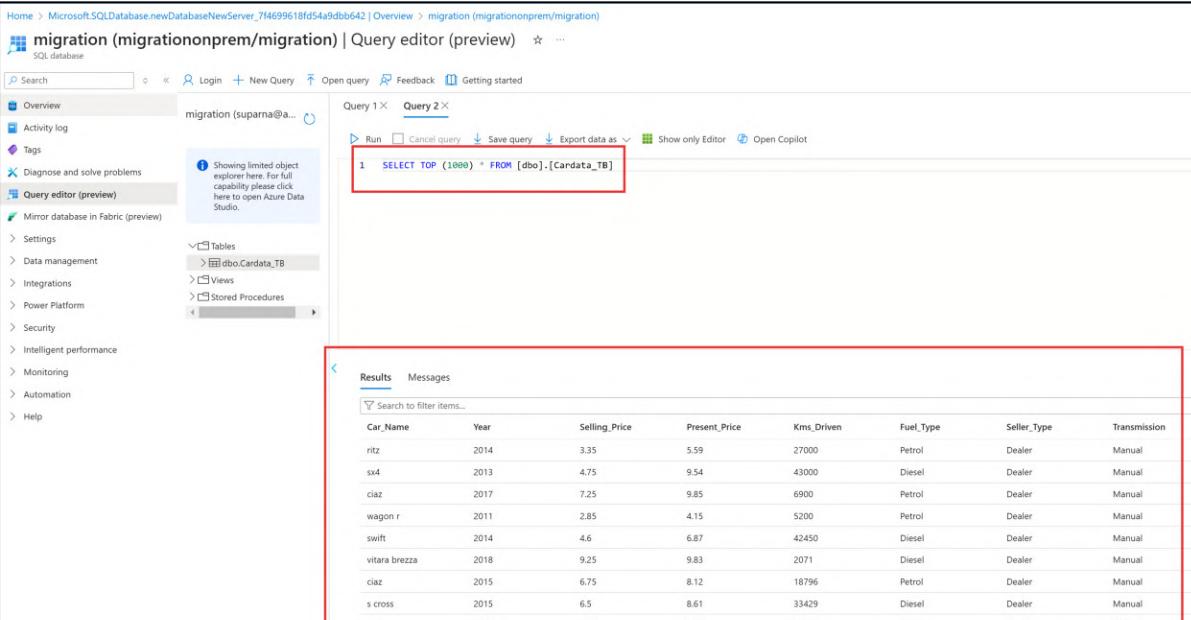
The screenshot shows the Azure portal interface for a SQL database named 'migration'. The left sidebar has a 'Query editor (preview)' section expanded. Under 'Tables', 'dbo.Cardata\_TB' is selected, indicated by a red box. The main area is titled 'Query 1' with a single digit '1' in the text input field. Below the text input are 'Run', 'Cancel query', 'Save query', 'Export data as', 'Show only Editor', and 'Open Copilot' buttons. At the bottom, there are 'Results' and 'Messages' tabs and a search bar.

**Step 48: Now click on table ... and select Top 1000 rows**



This screenshot is similar to the previous one, showing the Azure portal for the 'migration' database. The 'Tables' node under 'dbo' is selected. A context menu is open over the 'Cardata\_TB' entry, with the 'Select Top 1000 rows' option highlighted by a red box. Other options in the menu include 'Edit Data (Preview)' and 'Rename'.

**Step 49: Now you'll be able to view the data in table**



This screenshot shows the Azure portal with the 'migration' database. The 'Tables' node under 'dbo' is selected. In the 'Query 1' editor, the following T-SQL command is entered: 'SELECT TOP (1000) \* FROM [dbo].[Cardata\_TB]'. The results tab shows a table with 10 rows of data, each representing a car's details like name, year, price, and fuel type. A large red box highlights the entire results table.

Car_Name	Year	Selling_Price	Present_Price	Kms_Driven	Fuel_Type	Seller_Type	Transmission
itz	2014	3.35	5.59	27000	Petrol	Dealer	Manual
sx4	2013	4.75	9.54	43000	Diesel	Dealer	Manual
ciaz	2017	7.25	9.85	6900	Petrol	Dealer	Manual
wagon r	2011	2.85	4.15	5200	Petrol	Dealer	Manual
swift	2014	4.6	6.87	42450	Diesel	Dealer	Manual
vitara brezza	2018	9.25	9.83	2071	Diesel	Dealer	Manual
ciaz	2015	6.75	8.12	18796	Petrol	Dealer	Manual
s cross	2015	6.5	8.61	33429	Diesel	Dealer	Manual
riy	2016	8.75	8.89	30173	Diesel	Dealer	Manual