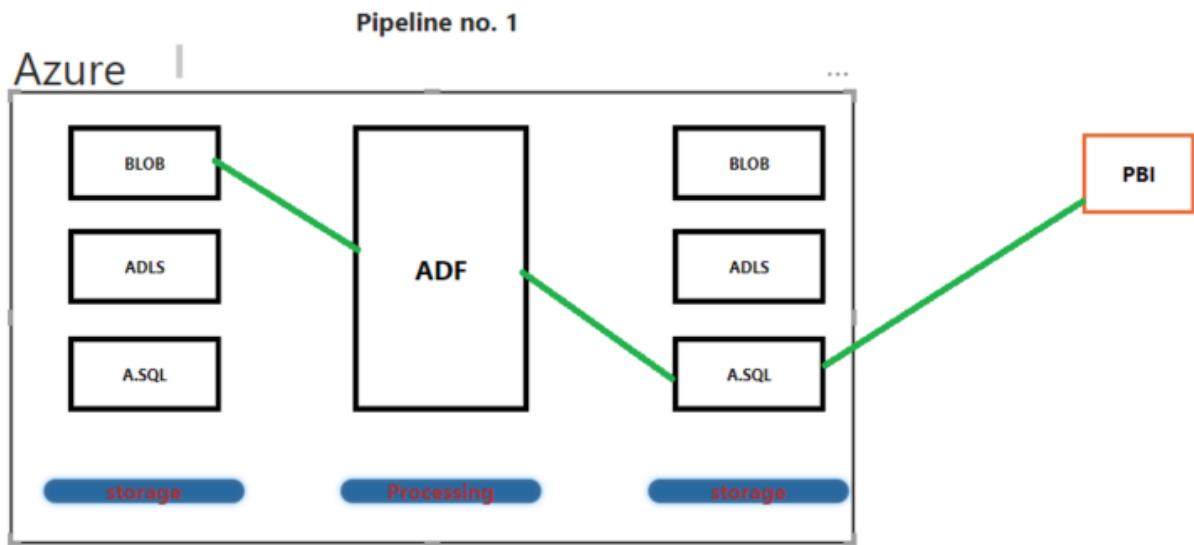


Azure to power bi connectivity(document)

1. Flow Diagram



2.Services used:

- a) blob storage
- b) Azure data factory
- c) Azure sql server

a) Blob storage

open <https://portal.azure.com/> → login with your subscription account

create storage account

The screenshot shows the Microsoft Azure 'Create a resource' interface. A search bar at the top contains the query 'storage account'. Below the search bar, a sidebar on the left lists categories such as Get Started, Recently created, Categories (AI + Machine Learning, Analytics, Blockchain, Compute, Containers, Databases, Developer Tools, DevOps, Identity, Integration), and others. The main content area displays search results for 'storage account', including 'storage account' by Microsoft (Azure Service), 'Storage Account Using ARM Template' by FortuneCloud LLC (Azure Application), 'Storage task - Azure Storage Actions' by Microsoft (Azure Service), and 'Azure Storage Mover' by Microsoft (Azure Service). Other visible items include 'Windows Server 2019 Datacenter', 'Windows 11 Pro, version 21H2', 'Ubuntu Server 20.04 LTS', 'Ubuntu Server 22.04 LTS', 'Red Hat Enterprise Linux 7.4', and 'Data Factory'.

The screenshot shows the Microsoft Azure Marketplace search results for 'storage account'. A search bar at the top contains the query 'storage account'. Below the search bar, a sidebar on the left lists categories such as Get Started, Service Providers, Management (Private Marketplace, Private Offer Management), and My Marketplace (Favorites, My solutions, Recently created, Private plans). The main content area displays search results for 'storage account', including 'Storage account' by Microsoft (Azure Service), 'Storage Account Using ARM Template' by FortuneCloud LLC (Azure Application), 'Storage task - Azure Storage Actions' by Microsoft (Azure Service), and 'Azure Storage Mover' by Microsoft (Azure Service). Other visible items include 'Storage Account Using ARM' by DIGISTORM LTD. (Azure Application) and 'storage account arm' by storage account arm. A message at the top encourages users to get AI-generated suggestions.

Microsoft Azure | Upgrade | Search resources, services, and docs (G+) | Copilot | Home > Create a resource > Marketplace > Storage account

Storage account

Microsoft | Azure Service
★ 4.2 (1880 ratings)

Plan: Storage account | Create

Overview Plans Usage Information + Support Ratings + Reviews

Microsoft Azure provides scalable, durable cloud storage, backup, and recovery solutions for any data, big or small. It works with the infrastructure you already have to cost-effectively enhance your existing applications and business continuity strategy, and provide the storage required by your cloud applications, including unstructured text or binary data such as video, audio, and images.

More products from Microsoft [See All](#)

Active Directory Health AD Replication Status Device Update for IoT Hub Front Door and CDN profiles

Microsoft Azure | Upgrade | Search resources, services, and docs (G+) | Copilot | sreepathignaneswar@... DEFAULT DIRECTORY

Home > Create a resource > Marketplace > Storage account > Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. [Learn more about Azure storage accounts](#)

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription: Free Trial | Resource group: Select existing item... | Create new

Instance details

Storage account name:

Previous Next Review + create | Give feedback

Name the resource group , storage account name and set the region of your nearest.

Subscription * Free Trial

Resource group * (New) Azure-fabric-first-pipeline

Storage account name * gnaneshwarsa

Region * (US) East US Deploy to an Azure Extended Zone

Performance * Standard: Recommended for most scenarios (general-purpose v2 account)

Redundancy * Locally-redundant storage (LRS)

Previous Next Review + create Give feedback

Next →

Basics Advanced Networking Data protection Encryption Tags Review + create

Security

Configure security settings that impact your storage account.

Require secure transfer for REST API operations

Allow enabling anonymous access on individual containers

Enable storage account key access

Default to Microsoft Entra authorization in the Azure portal

Minimum TLS version Version 1.2

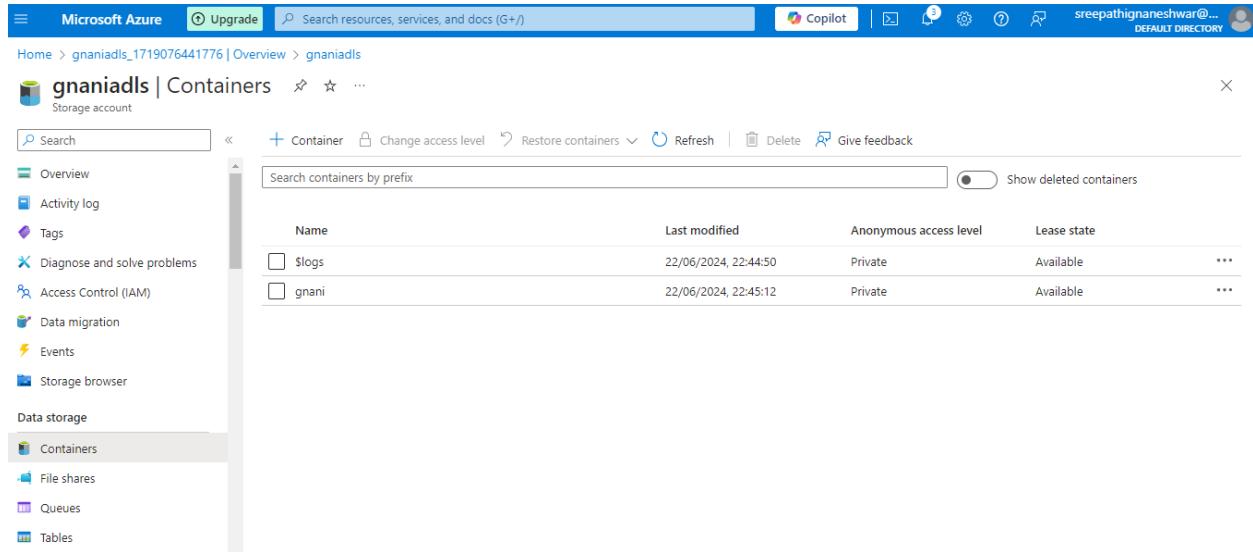
Permitted scope for copy operations (preview) From any storage account

Previous Next Review + create Give feedback

Keep default if you needed blob storage without **hierarchical**. Means if you need data late storage you can **enable hierarchical namespace**.

if you enable. that will show the option of **Add directory**

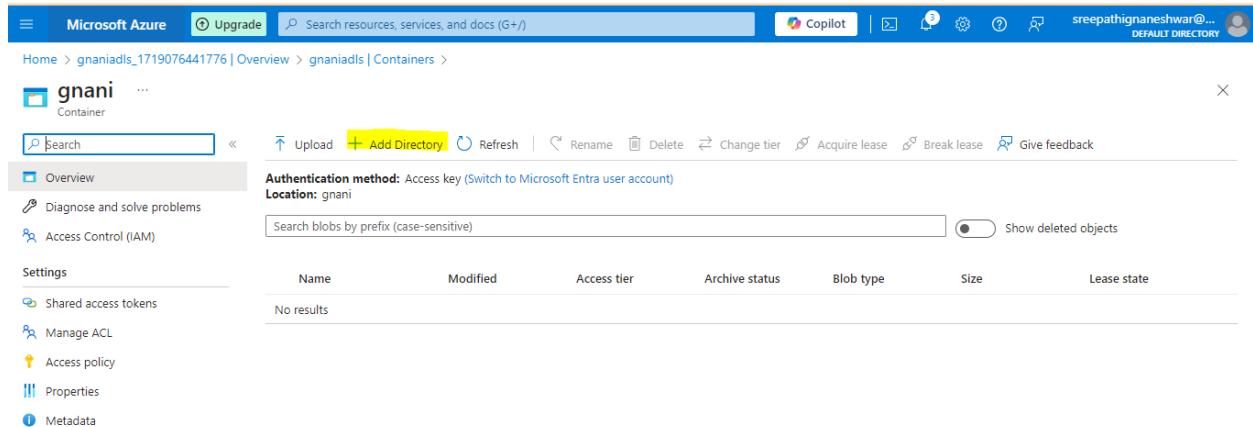
(example PFB ss



The screenshot shows the Microsoft Azure Storage Account interface. On the left, there's a sidebar with various options like Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, and Storage browser. Under Data storage, 'Containers' is selected. The main area displays a list of containers named 'Logs' and 'gnani'. Each container has columns for Name, Last modified, Anonymous access level, and Lease state.

Name	Last modified	Anonymous access level	Lease state
Logs	22/06/2024, 22:44:50	Private	Available
gnani	22/06/2024, 22:45:12	Private	Available

I have checked that **enable option** and created the **storage account** now and created the **container**. one I were open that, it will show option with Add Directory. it means we can add their folders and inside that more folders and inside that data. Means , we can organize well files , we can store hieratically and well organized. This type of storage, where we have enable the hieratical name space is called Azure data lake storage(ADLS)



The screenshot shows the details of a specific container named 'gnani'. It includes sections for Overview, Diagnosis, and Settings. The Settings section contains options for Shared access tokens, Manage ACL, Access policy, Properties, and Metadata. The main area shows blob details with a table for Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state. A note indicates 'No results'.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
No results						

This is the use of ADLS)

Next we can give default to next →

The screenshot shows the 'Create a storage account' wizard on the Microsoft Azure portal. The current step is 'Hierarchical Namespace'. It includes sections for enabling hierarchical namespace, access protocols (SFTP and NFS v3), and blob storage. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons.

Hierarchical Namespace
Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs). [Learn more](#)

Enable hierarchical namespace

Access protocols
Blob and Data Lake Gen2 endpoints are provisioned by default. [Learn more](#)

Enable SFTP
SFTP can only be enabled for hierarchical namespace accounts

Enable network file system v3
To enable NFS v3 'hierarchical namespace' must be enabled. [Learn more about NFS v3](#)

Blob storage

Allow cross-tenant replication

Access tier Hot: Optimized for frequently accessed data and everyday usage scenarios
 Cool: Optimized for infrequently accessed data and backup scenarios

[Previous](#) [Next](#) [Review + create](#) [Give feedback](#)

The screenshot shows the 'Create a storage account' wizard on the Microsoft Azure portal. The current step is 'Blob storage'. It includes sections for enabling large file shares and allows setting the access tier to 'Hot' or 'Cool'. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons.

Blob storage

Enable large file shares

Access tier Hot: Optimized for frequently accessed data and everyday usage scenarios
 Cool: Optimized for infrequently accessed data and backup scenarios

[Previous](#) [Next](#) [Review + create](#) [Give feedback](#)

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

Copilot | 1 ? ? ? ? sreepathignaneshwar@... DEFAULT DIRECTORY

Home > Create a resource > Marketplace > Storage account >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Network connectivity

You can connect to your storage account either publicly, via public IP addresses or service endpoints, or privately, using a private endpoint.

Network access *

Enable public access from all networks
 Enable public access from selected virtual networks and IP addresses
 Disable public access and use private access

ⓘ Enabling public access from all networks might make this resource available publicly. Unless public access is required, we recommend using a more restricted access type. [Learn more](#)

Network routing

Determining how to route your traffic so it routes from the source to the Azure endpoint Microsoft network routing is...

Previous Next Review + create Give feedback

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Home > Create a resource > Marketplace > Storage account >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Recovery

Protect your data from accidental or erroneous deletion or modification.

Enable point-in-time restore for containers
Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. [Learn more](#)

Enable soft delete for blobs
Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. [Learn more](#)

Days to retain deleted blobs

Enable soft delete for containers
Soft delete enables you to recover containers that were previously marked for deletion. [Learn more](#)

Previous Next Review + create Give feedback

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

Copilot | ⌂ | 🔍 | 🚧 | 🚧 | ? | 🔍 | sreepathignaneswar@... | DEFAULT DIRECTORY

Home > Create a resource > Marketplace > Storage account >

Create a storage account

Basics Advanced Networking Data protection **Encryption** Tags Review + create

Encryption type * Microsoft-managed keys (MMK) Customer-managed keys (CMK)

Enable support for customer-managed keys Blobs and files only All service types (blobs, files, tables, and queues)
⚠ This option cannot be changed after this storage account is created.

Enable infrastructure encryption

Previous Next **Review + create** Give feedback

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

Copilot | ⌂ | 🔍 | 🚧 | 🚧 | ? | 🔍 | sreepathignaneswar@... | DEFAULT DIRECTORY

Home > Create a resource > Marketplace > Storage account >

Create a storage account

Basics Advanced Networking Data protection **Encryption** **Tags** Review + create

Name	Value	Resource
<input type="text"/>	:	<input type="text"/> All resources selected

Previous Next **Review + create** Give feedback

It will validate

The screenshot shows the Microsoft Azure portal interface for creating a storage account. The top navigation bar includes 'Microsoft Azure', 'Upgrade', a search bar, 'Copilot', and user information ('sreepathignaneshwar@... DEFAULT DIRECTORY'). The breadcrumb path is 'Home > Create a resource > Marketplace > Storage account > Create a storage account'. Below the path, there are tabs for 'Basics', 'Advanced', 'Networking', 'Data protection', 'Encryption', 'Tags', and 'Review + create', with 'Review + create' being the active tab. A progress indicator shows 'Validation in progress'. At the bottom, there are buttons for 'Previous', 'Next', and 'Create'.

next create account

The screenshot shows the Microsoft Azure portal interface for creating a storage account. The top navigation bar and breadcrumb path are identical to the previous screenshot. The 'Review + create' tab is active. The configuration section is titled 'Basics' and contains the following settings:

Subscription	Free Trial
Resource group	Azure-fabric-first-pipeline
Location	East US
Storage account name	gnaneshwarsa
Performance	Standard
Replication	Locally-redundant storage (LRS)

Below the 'Basics' section is an 'Advanced' section with the following settings:

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled

At the bottom, there are buttons for 'Previous', 'Next', and 'Create'.

Once you click on create it will start deployment and create the resource

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The 'Storage account name' is set to 'gnaneshwarsa'. The 'Location' is 'East US', 'Performance' is 'Standard', and 'Replication' is 'Locally-redundant storage (LRS)'. Under 'Advanced' settings, 'Enable hierarchical namespace' and 'Enable SFTP' are disabled. 'Enable network file system v3', 'Allow cross-tenant replication', and 'Access tier' (set to 'Hot') are also disabled. 'Enable large file shares' is enabled. In the 'Security' section, 'Secure transfer' is set to 'Enabled'. A progress bar at the top right indicates 'Initializing deployment...' and 'Initializing template deployment to resource group 'Azure-fabric-first-pipeline''. Navigation buttons 'Previous', 'Next', and 'Create' are at the bottom, along with a 'Give feedback' link.

The screenshot shows the 'Deployment Overview' page for 'gnaneshwarsa_1718982727909'. The deployment status is 'Deployment is in progress'. Key details include: Deployment name: 'gnaneshwarsa_1718982727909', Subscription: 'Free Trial', Resource group: 'Azure-fabric-first-pipeline', Start time: 21/06/2024, 20:42:47, and Correlation ID: '1d81b1a0-5a42-4c59-ac38-53461088a561'. The 'Deployment details' table shows 'No results.' On the left, there are tabs for 'Overview' (selected), 'Inputs', 'Outputs', and 'Template'. On the right, there are promotional links for Microsoft Defender for Cloud, Free Microsoft tutorials, and Work with an expert.

The screenshot shows the Microsoft Azure Deployment Overview page. At the top, there's a navigation bar with 'Microsoft Azure', 'Upgrade', a search bar, and user information ('sreepathignaneshwar@... DEFAULT DIRECTORY'). Below the navigation is the deployment title 'gnaneshwarsa_1718982727909 | Overview'. A toolbar below the title includes 'Search', 'Delete', 'Cancel', 'Redeploy', 'Download', and 'Refresh' buttons.

The main content area has a sidebar with 'Overview' selected, and other options like 'Inputs', 'Outputs', and 'Template'. The main panel displays a green checkmark icon and the message 'Your deployment is complete'. It provides deployment details: Deployment name: 'gnaneshwarsa_1718982727909', Subscription: 'Free Trial', Resource group: 'Azure-fabric-first-pipeline'. It also shows the start time: '21/06/2024, 20:42:47' and Correlation ID: '1d81b1a0-5a42-4c59-ac38-53461088a561'. Below this, there are sections for 'Deployment details' and 'Next steps', with a 'Go to resource' button.

On the right side, there are promotional cards: 'Cost Management' (Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >), 'Microsoft Defender for Cloud' (Secure your apps and infrastructure. Go to Microsoft Defender for Cloud >), 'Free Microsoft tutorials' (Start learning today >), and 'Work with an expert'.

click on resource and add the container then add raw data in blob storage..

To create **Azure data factory**

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

Home > Create a resource

Get Started Recently created

Categories

- AI + Machine Learning
- Analytics
- Blockchain
- Compute
- Containers
- Databases
- Developer Tools
- DevOps
- Identity
- Integration

data factory

Getting started? Try our Quickstart Center

Popular Marketplace products See more in Marketplace

- Windows Server 2019 Datacenter
Create | Learn more
- Windows 11 Pro, version 21H2
Create | Learn more
- Ubuntu Server 20.04 LTS
Create | Learn more
- Ubuntu Server 22.04 LTS
Create | Learn more
- Red Hat Enterprise Linux 7.4
Create | Learn more

Essentials 50K

Give feedback

This screenshot shows the Microsoft Azure 'Create a resource' interface. A search bar at the top contains the query 'data factory'. Below it, a sidebar lists categories like AI + Machine Learning, Analytics, and Compute. The main area displays search results for 'data factory', including 'Virtual machine', 'Web App', 'SQL Database', 'Function App', 'Key Vault', and 'Data Factory'. To the right, a section titled 'Popular Marketplace products' lists several cloud services like Windows Server 2019 Datacenter, Windows 11 Pro, Ubuntu Server, and Red Hat Enterprise Linux.

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

Home > Create a resource > Marketplace

Get Started Service Providers

Management

- Private Marketplace
- Private Offer Management

My Marketplace

Favorites

My solutions

Recently created

Private plans

Categories

New! Get AI-generated suggestions for your search.
Ask AI to suggest products, articles, and solutions for what you need.

View suggestions

data factory

Pricing : All × Operating System : All × Publisher Type : All × Product Type : All ×

Azure services only

Showing 1 to 20 of 85 results for 'data factory'. Clear search

Tile view

Data Factory Microsoft Azure Service Hybrid data integration service that simplifies ETL at scale	Digital Factory Scheduler Supply Chain Wizard SaaS Improve production scheduling via shop-floor integration and advanced analytics.	Modern Data Mart Ceteris AG Azure Application Small Data-Warehouse Architecture integrating a single source using Azure Data Factory	Cluedin MDM and Data Quality - SaaS Cluedin SaaS Cluedin is a native solution for Master Data Management and Data Quality on Microsoft Azure.	Profisee SaaS Enterprise Master Data Management Profisee SaaS Profisee Master Data Management - SaaS Solution. Transactable Through Marketplace
------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------

Is Marketplace helpful?

This screenshot shows the Microsoft Azure Marketplace search results for 'data factory'. It features a search bar with the query 'data factory' and various filtering options like Pricing, Operating System, Publisher Type, and Product Type. The results are displayed in a grid of tiles, each representing a different service or application related to data factories. The tiles include 'Data Factory' from Microsoft, 'Digital Factory | Scheduler', 'Modern Data Mart', 'Cluedin MDM and Data Quality - SaaS', and 'Profisee SaaS Enterprise Master Data Management'. A callout box highlights the AI-generated suggestions feature.

give the resource group name , name and region.

Microsoft Azure  Search resources, services, and docs (G+/-) Copilot |       sreepathigneshwar@...
DEFAULT DIRECTORY

Home > 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 *  Free Trial 

Resource group *  Select existing... 

Instance details

Name *  Azure-fabric-first-pipeline

Region *  East US 

[Previous](#) [Next](#) [Review + create](#) 

Next→

The screenshot shows the 'Create Data Factory' wizard on the Microsoft Azure portal. The title bar says 'Create Data Factory ...'. Below it, a sub-header says 'One-click to create data factory with sample pipeline and datasets. Try it'. A 'Project details' section asks to select a subscription and resource group. The 'Subscription' dropdown is set to 'Free Trial' and the 'Resource group' dropdown is set to 'Azure-fabric-first-pipeline'. Under 'Instance details', the 'Name' is 'Azureadaf8', 'Region' is 'East US', and 'Version' is 'V2'. At the bottom are 'Previous', 'Next', and 'Review + create' buttons.

Next→

The screenshot shows the 'Create Data Factory' wizard on the Microsoft Azure portal, specifically the 'Git configuration' step. The title bar says 'Create Data Factory ...'. Below it, tabs for 'Basics', 'Git configuration' (which is selected), 'Networking', 'Advanced', 'Tags', and 'Review + create' are visible. A note states: '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.' A link 'Learn more about Git integration in Azure Data Factory' is provided. A checkbox 'Configure Git later' is checked. At the bottom are 'Previous', 'Next', and 'Review + create' buttons.

Connect via → public next →

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

Copilot | Home > Create Data Factory ...

Networking

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

Previous Next Review + create Give feedback

default—next →

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

Copilot | Home > Create Data Factory ...

Advanced

Datafactory Encryption

By default, data is encrypted with Microsoft-managed keys. For additional control over encryption keys, you can supply customer-managed keys to use for encryption of blob and file data. Customer-managed keys must be stored in an Azure Key Vault. You can either create your own keys and store them in a key vault, or you can use the Azure Key Vault APIs to generate keys. The storage account and the key vault must be in the same region, but they can be in different subscriptions.

Enable encryption using a Customer Managed Key

Previous Next Review + create Give feedback

Next→

The screenshot shows the Microsoft Azure portal interface for creating a Data Factory. The top navigation bar includes 'Microsoft Azure', a search bar, and user information ('Copilot', 'sreepathignaneshwar@...', 'DEFAULT DIRECTORY'). The main title is 'Create Data Factory'. Below it, a sub-header says 'Tags'. A note states: 'Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups.' A link to 'Learn more about tags' is provided. A note below says: 'Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.' A table shows a single tag entry: 'Name' (Data factory (V2)) and 'Value' (Data factory (V2)). At the bottom, there are 'Previous' and 'Next' buttons, and a prominent 'Review + create' button.

create now

The screenshot shows the Microsoft Azure portal interface for creating a Data Factory. The top navigation bar includes 'Microsoft Azure', a search bar, and user information ('Copilot', 'sreepathignaneshwar@...', 'DEFAULT DIRECTORY'). The main title is 'Create Data Factory'. Below it, a sub-header says 'Review + create'. A note says: 'By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; 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. See the [Azure Marketplace Terms](#) for additional details.' A section titled 'Basics' shows 'Subscription' (Free Trial) and 'Resource group' (Azure-fabric-first-pipeline). At the bottom, there are 'Previous' and 'Next' buttons, and a prominent 'Create' button.

Now ADF created

To create A.SQL

The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header bar with the Microsoft Azure logo, a search bar, and various navigation icons. On the right, it shows the user's name 'sreepathignaneshwar@...' and 'DEFAULT DIRECTORY'. Below the header, the main content area has a title 'Create a resource' with a back arrow pointing to 'Home'. To the left is a sidebar with 'Get Started' and 'Recently created' sections, followed by a 'Categories' section containing links like 'AI + Machine Learning', 'Analytics', 'Blockchain', 'Compute', 'Containers', 'Databases' (which is highlighted), 'Developer Tools', 'DevOps', 'Identity', and 'Integration'. The main content area has two sections: 'Popular Azure services' (with links to SQL Database, Azure SQL, Azure Cosmos DB, Azure Synapse Analytics, Azure Database for PostgreSQL, and Azure Database for MySQL) and 'Popular Marketplace products' (with links to Free SQL Server License: SQL 2019 Developer on Windows Server 2019, MongoDB Atlas (pay-as-you-go), SQL Server 2019 Enterprise on Windows Server 2022, and Free SQL Server License: SQL Server 2022 Developer on Windows Server 2022). There's also a 'Give feedback' link at the bottom right.

select sql database

This screenshot shows the 'Create SQL Database' wizard in the Azure portal. The top navigation bar includes 'Microsoft Azure', a search bar, and user information. The main title is 'Create SQL Database' with a back arrow to 'Create a resource'. Below the title, it says 'Microsoft'. The 'Basics' tab is selected, with other tabs for 'Networking', 'Security', 'Additional settings', 'Tags', and 'Review + create'. A note below the tabs says: 'Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize.' It includes a 'Learn more' link and a 'Apply offer (Preview)' button. Another note below it says: 'SQL Database Hyperscale: Low price, high scalability, and best feature set. [Learn more](#)' with a small icon. Under 'Project details', it says: 'Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.' At the bottom, there are two buttons: 'Review + create' and 'Next : Networking >'. The URL in the address bar is https://portal.azure.com/#create/Microsoft.SqlDatabase

Give resource group name → this will show in ADF we have created pipeline that we can select. database name, and server

Microsoft Azure  Search resources, services, and docs (G+/-) Copilot      sreepathignaneshwar@... DEFAULT DIRECTORY

Home > Create a resource >

Create SQL Database

Subscription *  Free Trial

Resource group *  Select a resource group
Create new

Database details

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

Database name *

Server *  Select a server
Create new

Want to use SQL elastic pool?  Yes  No

Workload environment  Development

Review + create **Next : Networking >**

Microsoft Azure  Search resources, services, and docs (G+/-) Copilot      sreepathignaneshwar@... DEFAULT DIRECTORY

Home >

Create SQL Database

Subscription *  Free Trial

Resource group *  Select a resource group
Select existing...

Database details

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

Database name *

Server *  Select a server
Create new

Want to use SQL elastic pool?  Yes  No

Workload environment  Development

Review + create **Next : Networking >**

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

Copilot | Home | Help | Notifications | Settings | Profile | sreepathignaneswar@... DEFAULT DIRECTORY

Home > Create SQL Database

Subscription * Free Trial

Resource group * Azure-fabric-first-pipeline

Database details

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

Database name * gnaneshwar_sql

Server * Select a server

Want to use SQL elastic pool? No

Workload environment Development

Review + create Next : Networking >

while clicking server name it will take to server details.

there we need to give server name, nearest location we need to select otherwise it will through error.

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

Copilot | Home | Help | Notifications | Settings | Profile | sreepathignaneswar@... DEFAULT DIRECTORY

Home > Create SQL Database > Create SQL Database Server

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 * Enter server name .database.windows.net

Location * (US) East US

Your subscription does not have access to create a server in the selected region. For the latest information about region availability for your subscription, go to aka.ms/sqlcapacity. Please try another region or create a support ticket to request access.

Authentication

OK

The screenshot shows the 'Create SQL Database Server' step of the wizard. It asks for a server name (entered as '.database.windows.net') and a location (selected as '(US) East US'). A red error message is displayed below the location field stating: 'Your subscription does not have access to create a server in the selected region. For the latest information about region availability for your subscription, go to aka.ms/sqlcapacity. Please try another region or create a support ticket to request access.' There is also an 'OK' button at the bottom.

The screenshot shows the Microsoft Azure portal interface. The main window is titled "Create SQL Database Server" under the "Microsoft" category. It displays fields for "Server name" (gnani-sql) and "Location" ((Asia Pacific) Central India). A message bar at the top indicates that Azure Active Directory (Azure AD) is now Microsoft Entra ID. Below the form, a note about authentication methods is present. On the right, a "Notifications" sidebar is open, showing a message about credit remaining and a link to upgrade to a Pay-As-You-Go subscription.

Next for authentication method select **use SQL authenticating**

This screenshot shows the continuation of the "Create SQL Database Server" process. The "Authentication method" section is highlighted, showing three options: "Use Microsoft Entra-only authentication", "Use both SQL and Microsoft Entra authentication", and "Use SQL authentication". The third option, "Use SQL authentication", is selected. Below this, fields for "Server admin login" and "Password" are shown, along with a "Confirm password" field. An "OK" button is visible at the bottom left.

Give the admin login details and remember or note somewhere, because this will help to load data to power BI need to authenticate

Create SQL Database Server

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 *: gnaneshwar

Password *: (Visible)

Confirm password *: (Visible)

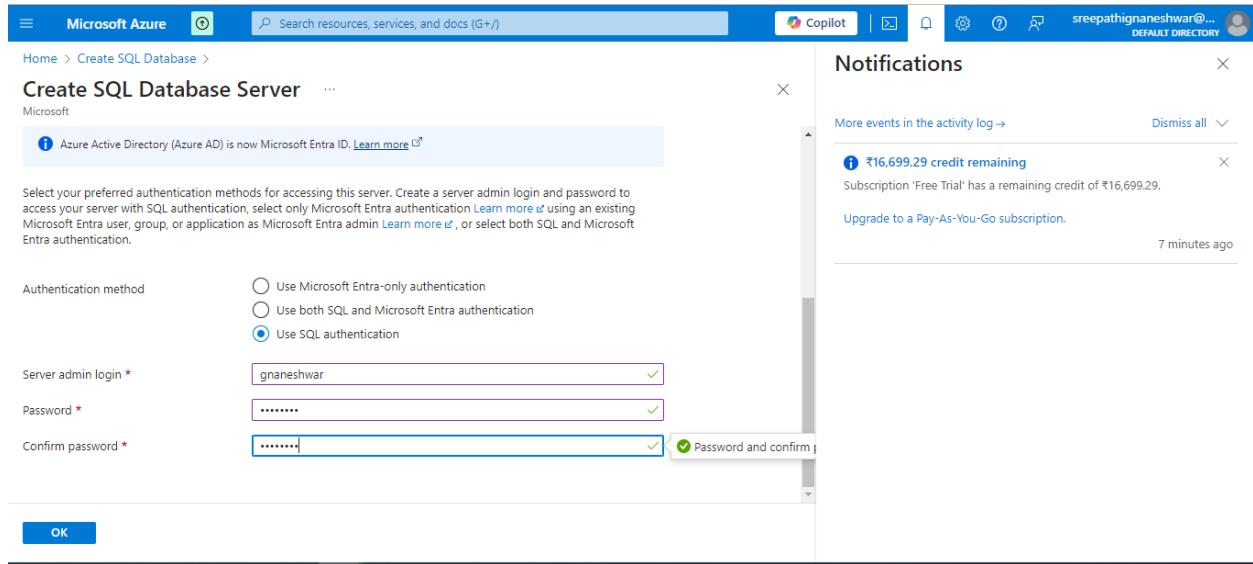
OK

Notifications

More events in the activity log → Dismiss all ▾

₹16,699.29 credit remaining Subscription 'Free Trial' has a remaining credit of ₹16,699.29.

Upgrade to a Pay-As-You-Go subscription. 7 minutes ago



select service tier to basic by client requirement data

Configure

Feedback

Service and compute tier

Select from the available tiers based on the needs of your workload. The vCore model provides a wide range of configuration controls and offers Hyperscale and Serverless to automatically scale your database based on your workload needs. Alternately, the DTU model provides set price/performance packages to choose from for easy configuration. [Learn more](#)

SQL Database Hyperscale: Low price, high scalability, and best feature set. [Learn more](#)

Service tier: General Purpose (Most budget friendly) Compare service tiers

Compute tier:

- Provisioned - Compute resources are pre-allocated. Billed per hour based on vCores configured.
- Serverless - Compute resources are auto-scaled. Billed per second based on vCores used.

Compute Hardware

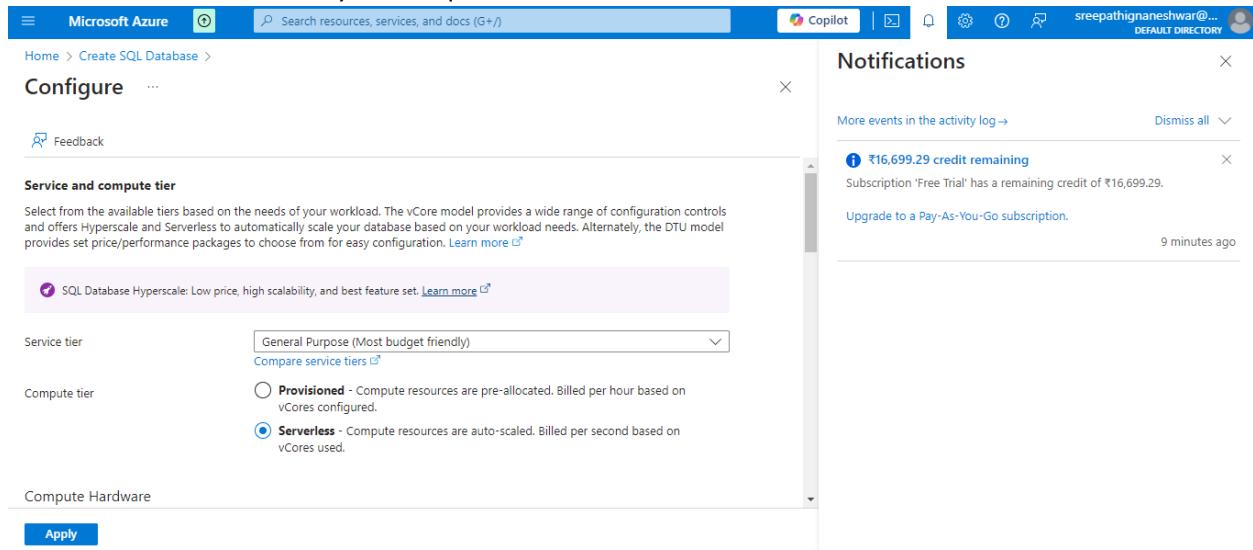
Apply

Notifications

More events in the activity log → Dismiss all ▾

₹16,699.29 credit remaining Subscription 'Free Trial' has a remaining credit of ₹16,699.29.

Upgrade to a Pay-As-You-Go subscription. 9 minutes ago



Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Notifications | sreepathignaneshwar@... DEFAULT DIRECTORY

Home > Create SQL Database >

Configure

Feedback

SQL Database Hyperscale: Low price, high scalability, and best feature set. [Learn more](#)

Service tier: Basic (For less demanding workloads) [Compare service tiers](#)

DTUs: [Compare DTU options](#)

5 (Basic)

Data max size (GB): 2

Apply

Notifications

More events in the activity log → Dismiss all

₹16,699.29 credit remaining Subscription 'Free Trial' has a remaining credit of ₹16,699.29.

Upgrade to a Pay-As-You-Go subscription. 9 minutes ago

apply

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Notifications | sreepathignaneshwar@... DEFAULT DIRECTORY

Home > Create SQL Database >

Configure

Feedback

Cost summary

Basic (Basic)	
Cost per DTU (in INR)	93.18
DTUs selected	x 5
ESTIMATED COST / MONTH	465.92 INR

Apply

Notifications

More events in the activity log → Dismiss all

₹16,699.29 credit remaining Subscription 'Free Trial' has a remaining credit of ₹16,699.29.

Upgrade to a Pay-As-You-Go subscription. 10 minutes ago

Next→

Microsoft Azure | Search resources, services, and docs (G+/-) | Copilot | Notifications | sreepathignaneswar@... DEFAULT DIRECTORY

Home > Create SQL Database

Want to use SQL elastic pool? Yes No

Workload environment Development Production

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

Compute + storage * Basic 2 GB storage 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.

Review + create Next : Networking >

backup is local

Microsoft Azure | Search resources, services, and docs (G+/-) | Copilot | Notifications | sreepathignaneswar@... DEFAULT DIRECTORY

Home > Create SQL Database

Available when geo-redundant storage is selected.

Backup storage redundancy Locally-redundant backup storage Zone-redundant backup storage Geo-redundant backup storage

Locally-redundant backup storage is available when geo-redundant storage is selected.

Cost summary

Basic (Basic)

Review + create Next : Networking >

Next → connectivity → public

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Notifications | sreepathignaneswar@... DEFAULT DIRECTORY

Create SQL Database

Networking

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'gnani-sql' 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 * No access Public endpoint Private endpoint

Connection policy Default - Uses Redirect policy for all client connections originating inside

Review + create < Previous Next : Security >

Notifications

More events in the activity log → Dismiss all

₹16,699.29 credit remaining Subscription 'Free Trial' has a remaining credit of ₹16,699.29. Upgrade to a Pay-As-You-Go subscription. 12 minutes ago

Keep YES for Allow azure services and resources to access this server and add current client IP address

Microsoft Azure | Search resources, services, and docs (G+) | Copilot | Notifications | sreepathignaneswar@... DEFAULT DIRECTORY

Create SQL Database

Networking

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'gnani-sql' 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 * No access 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 * No Yes

Add current client IP address * No Yes

Connection policy Default - Uses Redirect policy for all client connections originating inside

Review + create < Previous Next : Security >

Notifications

More events in the activity log → Dismiss all

₹16,699.29 credit remaining Subscription 'Free Trial' has a remaining credit of ₹16,699.29. Upgrade to a Pay-As-You-Go subscription. 12 minutes ago

Next → default

The screenshot shows the 'Create SQL Database' wizard in progress. The current step is 'Security'. The 'Connection policy' section is expanded, showing three options: 'Default' (selected), 'Proxy', and 'Redirect'. The 'Encrypted connections' section indicates that TLS 1.2 is selected. At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Security >'.

Next

The screenshot shows the 'Create SQL Database' wizard in progress. The current step is 'Additional settings'. The 'Microsoft Defender for SQL' section is expanded, showing a trial offer and a choice between 'Start free trial' and 'Not now'. The 'Ledger' section is also visible, showing 'Not configured' status. At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next : Additional settings >'.

Next→

The screenshot shows the Microsoft Azure portal interface for creating a SQL database. The main window is titled 'Create SQL Database' and is on the 'Additional settings' tab. It includes sections for 'Data source' (with options for 'None', 'Backup', and 'Sample'), 'Database collation' (set to 'SQL_Latin1_General_CI_AS'), and a 'Maintenance window'. At the bottom are 'Review + create', '< Previous', and 'Next : Tags >' buttons. On the right, a 'Notifications' sidebar displays a message about credit remaining and a link to upgrade to a Pay-As-You-Go subscription.

Next→

This screenshot continues the 'Create SQL Database' wizard, now on the 'Tags' tab. It shows a table for adding tags with columns 'Name' and 'Value'. Two tags are listed: 'Resource' and a tag associated with a specific resource icon. Navigation buttons at the bottom include 'Review + create', '< Previous', and 'Next : Review + create >'. The right side features the same notifications sidebar as the previous screenshot.

Create →

Microsoft Azure Search resources, services, and docs (G+) Copilot sreepathignaneshwar@... DEFAULT DIRECTORY

Home > Create SQL Database Microsoft

Basics Networking Security Additional settings Tags Review + create

Product details

SQL database by Microsoft Terms of use | Privacy policy

Estimated cost per month 465.92 INR

Cost summary

Basic (Basic)	
Cost per DTU (in INR)	93.18
DTUs selected	x 5
ESTIMATED COST / MONTH	465.92 INR

Terms

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; 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

Create < Previous Download a template for automation

Validate

Microsoft Azure Search resources, services, and docs (G+) Copilot sreepathignaneshwar@... DEFAULT DIRECTORY

Home > Create SQL Database Microsoft

Basics Networking Security Additional settings Tags Review + create

Product details

SQL database by Microsoft Terms of use | Privacy policy

Estimated cost per month 465.92 INR

Cost summary

Basic (Basic)	
Cost per DTU (in INR)	93.18
DTUs selected	x 5
ESTIMATED COST / MONTH	465.92 INR

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Basics

Validating... < Previous Download a template for automation

Deployment

The screenshot shows the Microsoft Azure Deployment Overview page for a deployment named "Microsoft.SQLDatabase.newDatabaseNewServer_2a106e1da1f148d1bba0a". The deployment status is "in progress". The deployment name is "Microsoft.SQLDatabase.newDatabase...". The start time was 21/06/2024, 21:23:17. The subscription is "Free Trial" and the resource group is "Azure-fabric-first-pipeline". The correlation ID is e3287791-0727-472b-a1bd-69ff0e82.... The deployment details table lists six resources:

Resource	Type	Status	Operation details
gnani-sql/AllowAll	Microsoft.Sql/servers/firewallrule	OK	Operation details
gnani-sql/ClientIp-	Microsoft.Sql/servers/firewallrule	OK	Operation details
gnani-sql/gnan...	SQL database	Accepted	Operation details
gnani-sql/Default	Microsoft.Sql/servers/connection	OK	Operation details
gnani-sql	SQL server	OK	Operation details
gnani-sql	SQL server	Created	Operation details

once done go to resource and click on query editor then give login id and password which we have created the sql database server.

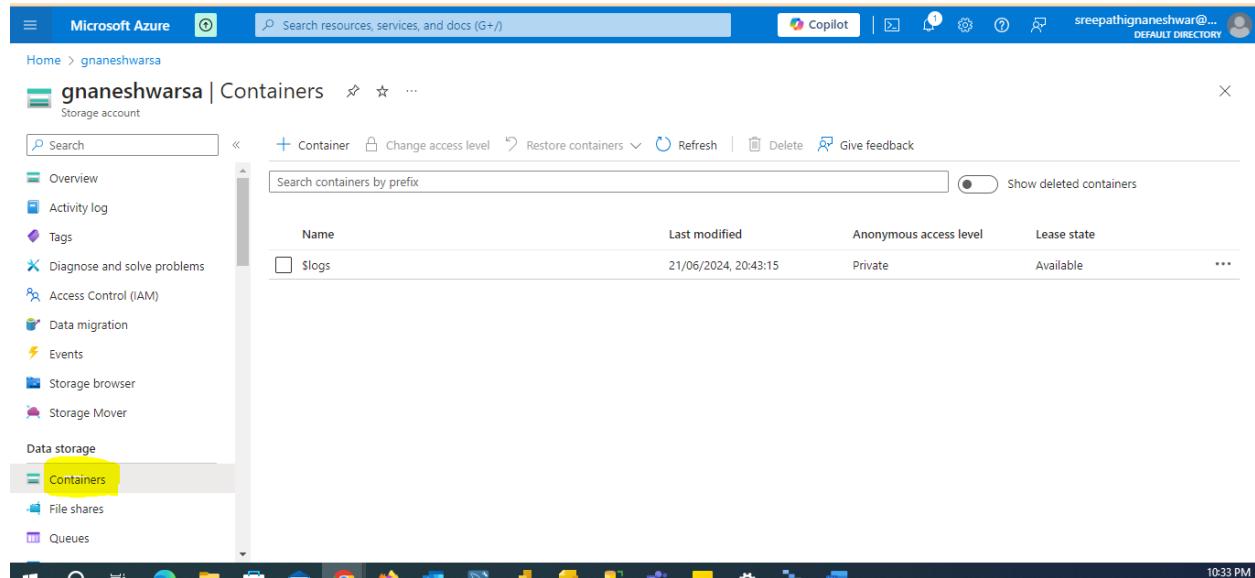
Then we will see below screen

The screenshot shows the Microsoft Azure Query editor (preview) for the "gnaneshwar-sql" database. The left sidebar shows navigation options like Overview, Activity log, Tags, Diagnose and solve problems, and Query editor (preview). The main area displays the Query 1 editor with a single line of code "1" entered. Below the editor are tabs for Results and Messages, and a search bar at the bottom.

Now the flow is storage account(blob)-→ data factory-→ azure .sql → from a.sql we can connect power bi.

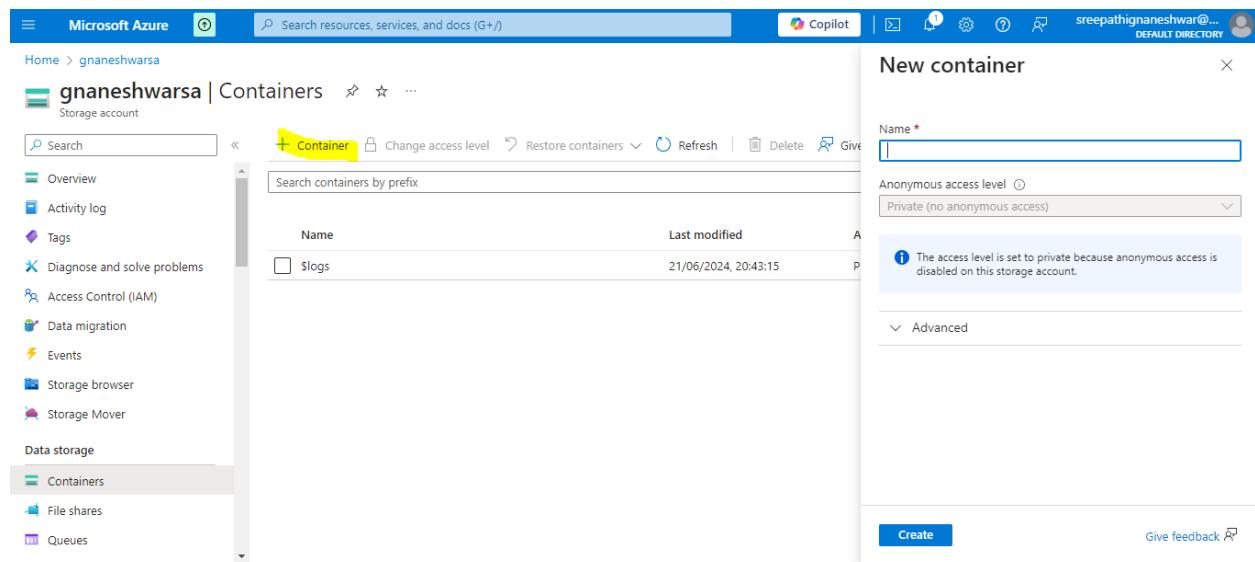
so now get the raw data to blob.

→ create one container



This screenshot shows the Microsoft Azure Storage Container list for the 'gnaneshwarsa' storage account. The 'Containers' tab is selected in the left sidebar. A single container named '\$logs' is listed in the main table.

Name	Last modified	Anonymous access level	Lease state
\$logs	21/06/2024, 20:43:15	Private	Available



This screenshot shows the 'New container' dialog box overlaid on the Azure Storage Container list. The 'Container' button in the top bar is highlighted with a yellow box. The dialog fields include:

- Name: An input field containing a placeholder.
- Anonymous access level: A dropdown menu set to "Private (no anonymous access)".
- Advanced settings: A collapsed section with a note about private access due to account settings.
- Create button: A blue 'Create' button at the bottom right.
- Give feedback link: A 'Give feedback' link with a 'Send' icon.

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

gnaneshwarsa | Containers

Storage account

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser Storage Mover

Data storage

Containers File shares Queues

Container Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix

Name	Last modified
Slogs	21/06/2024, 20:43:15

New container

Name * gnanidata

Anonymous access level Private (no anonymous access)

The access level is set to private because anonymous access is disabled on this storage account.

Advanced

Create Give feedback

A screenshot of the Microsoft Azure Storage Container creation dialog. The 'Name' field is filled with 'gnanidata'. The 'Anonymous access level' dropdown is set to 'Private (no anonymous access)'. A note below states: 'The access level is set to private because anonymous access is disabled on this storage account.' At the bottom are 'Create' and 'Give feedback' buttons.

create

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

gnaneshwarsa | Containers

Storage account

Overview Activity log Tags Diagnose and solve problems Access Control (IAM) Data migration Events Storage browser Storage Mover

Data storage

Containers File shares Queues

Container Change access level Restore containers Refresh Delete Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
Slogs	21/06/2024, 20:43:15	Private	Available ***
gnanidata	21/06/2024, 22:34:45	Private	Available ***

Successfully created storage container Successfully created storage container 'gnanidata'.

A screenshot of the Microsoft Azure Storage Container list. It shows two containers: 'Slogs' (last modified 21/06/2024, 20:43:15) and 'gnanidata' (last modified 21/06/2024, 22:34:45). Both are private and available. A success message at the top right says 'Successfully created storage container Successfully created storage container 'gnanidata''. The 'Show deleted containers' toggle is off.

created

Microsoft Azure

gnanidata Container

Search resources, services, and docs (G+/)

Copilot

sreepathignaneshwar@... DEFAULT DIRECTORY

Home > gnanedata | Containers >

gnanidata Container

Search

Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots Create snapshot ...

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Authentication method: Access key ([Switch to Microsoft Entra user account](#))

Location: gnanidata

Search blobs by prefix (case-sensitive)

Show deleted blobs

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
No results						

open that created container gnanidata and upload raw data.

Microsoft Azure

gnanidata Container

Search resources, services, and docs (G+/)

Copilot

sreepathignaneshwar@... DEFAULT DIRECTORY

Home > gnanedata | Containers >

gnanidata Container

Search

Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots Create snapshot ...

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Authentication method: Access key ([Switch to Microsoft Entra user account](#))

Location: gnanidata

Search blobs by prefix (case-sensitive)

Show deleted blobs

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
No results						

upload

The screenshot shows the Microsoft Azure Storage Explorer interface. On the left, the 'gnanidata' container is selected under the 'Containers' section. The 'Overview' tab is active, displaying basic information like 'Authentication method: Access key (Switch to Microsoft Entra user account)' and 'Location: gnanidata'. A search bar and a 'Add filter' button are also present. On the right, a modal window titled 'Upload blob' is open, containing a large dashed area for file upload with a cloud icon and the text 'Drag and drop files here or Browse for files'. Below this are checkboxes for 'Overwrite if files already exist' and 'Advanced' settings, followed by a large 'Upload' button and a 'Give feedback' link.

Uploaded

The screenshot shows the Microsoft Azure Storage Explorer interface after a file has been uploaded. The 'gnanidata' container overview page is displayed. A success message at the top right states 'Successfully uploaded blob(s)' and 'Successfully uploaded 1 blob(s.)'. The main table lists the uploaded file: 'Bike_Data.xlsx' with details: Name: Bike_Data.xlsx, Modified: 21/06/2024, 22:45:44, Access tier: Hot (Inferred), Archive status: Not yet archived, Blob type: Block blob, Size: 3.19 MiB, Lease state: Available. There is also a 'Show deleted blobs' toggle switch.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
Bike_Data.xlsx	21/06/2024, 22:45:44	Hot (Inferred)	Not yet archived	Block blob	3.19 MiB	Available

for raw data of bike data → there is no sales, profit and cost

Now in Azure data factory need to do data cleaning.

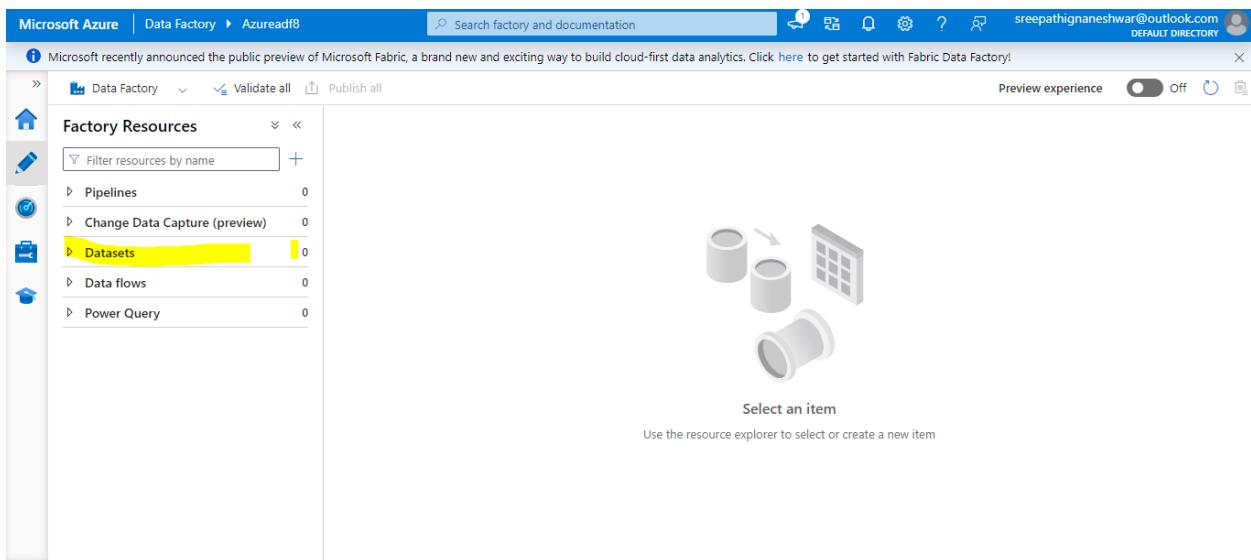
GO TO ADF

The screenshot shows the Microsoft Azure portal interface. At the top, there's a blue header bar with the Microsoft Azure logo, a search bar, and various navigation icons. On the right, it shows the user's email (sreepathignaneshwar@...) and the default directory. Below the header, the URL 'Azureadaf8' is visible. The main content area is titled 'Azureadaf8' and 'Data factory (V2)'. It displays basic information like Location (east US), Subscription (Free Trial), and Subscription ID (9679a898-eb02-4ef4-aa87-41e05ac9c877). To the right is a large blue icon of a factory building. Below the icon, the text 'Azure Data Factory Studio' is centered. A prominent blue button labeled 'Launch studio' is located just below the icon. To the left of the main content, there's a sidebar with several sections: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Networking, Managed identities, Properties, Locks), Getting started (Quick start), and Monitoring. At the bottom of the sidebar, there's a 'Search' bar.

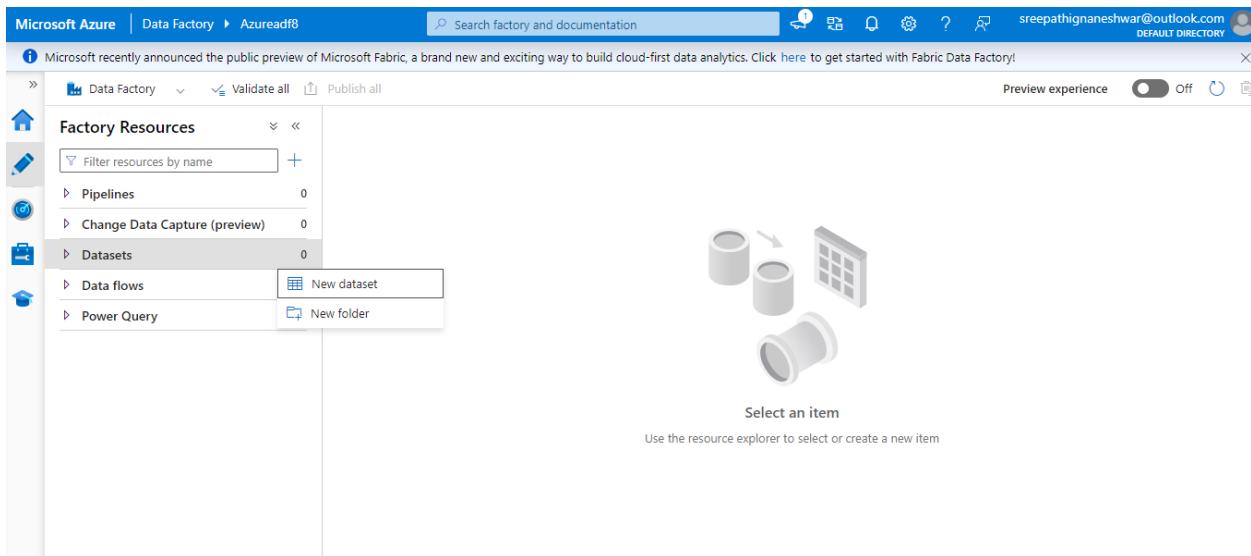
launch studio → it will open new browser and it were handle frdly

The screenshot shows the Azure Data Factory Studio interface. The top navigation bar includes 'Microsoft Azure', 'Data Factory', 'Azureadaf8', a search bar, and user information. There are two informational banners: one about Microsoft Fabric and another about setting up a code repository. The main workspace is titled 'Data factory' and 'Azureadaf8'. On the left, there's a vertical toolbar with icons for Home, Pencil (Edit), Refresh, Set up code repository, and Help. Below the toolbar, a 'New' dropdown menu is open, showing options: Pipeline (selected), Power Query, Data flow, and Dataset. To the right of the menu, there are four cards: 'Orchestrate' (code-free data pipelines), 'Transform data' (transform your data using data flows), and 'Configure SSIS' (manage & run your SSIS packages in the cloud). At the bottom left, there's a 'Recent resources' section.

get data from new and dataset, also in other way is click on pencil.



click on new dataset



the data set we need to get it from Blob storage where we have uploaded.

The screenshot shows the 'New dataset' creation dialog in Microsoft Azure Data Factory. The left sidebar lists 'Factory Resources' including Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query. The main area displays a grid of data store icons and names. The 'All' tab is selected. The visible options are:

Icon	Name
Cart icon	Amazon Marketplace Web Service
Blue cylinder icon	Amazon RDS for Oracle
Blue cylinder icon	Amazon RDS for SQL Server
Purple cylinder icon	(empty)
Green cylinder icon	(empty)
Green cylinder icon	(empty)

At the bottom are 'Continue' and 'Cancel' buttons.

This screenshot shows the same 'New dataset' dialog, but the 'Azure' tab is selected in the top navigation bar. The 'Datasets' option in the sidebar is also selected. The 'Azure' tab's grid shows the following options:

Icon	Name
Apache Impala icon	Apache Impala
Cloud with magnifying glass icon	Azure AI Search
Windows icon	Azure Blob Storage
Azure Cosmos DB icon	Azure Cosmos DB for
Azure Cosmos DB icon	Azure Cosmos DB for
Blue diamond icon	Azure Data Explorer

The 'Azure Blob Storage' option is highlighted with a yellow box. At the bottom are 'Continue' and 'Cancel' buttons.

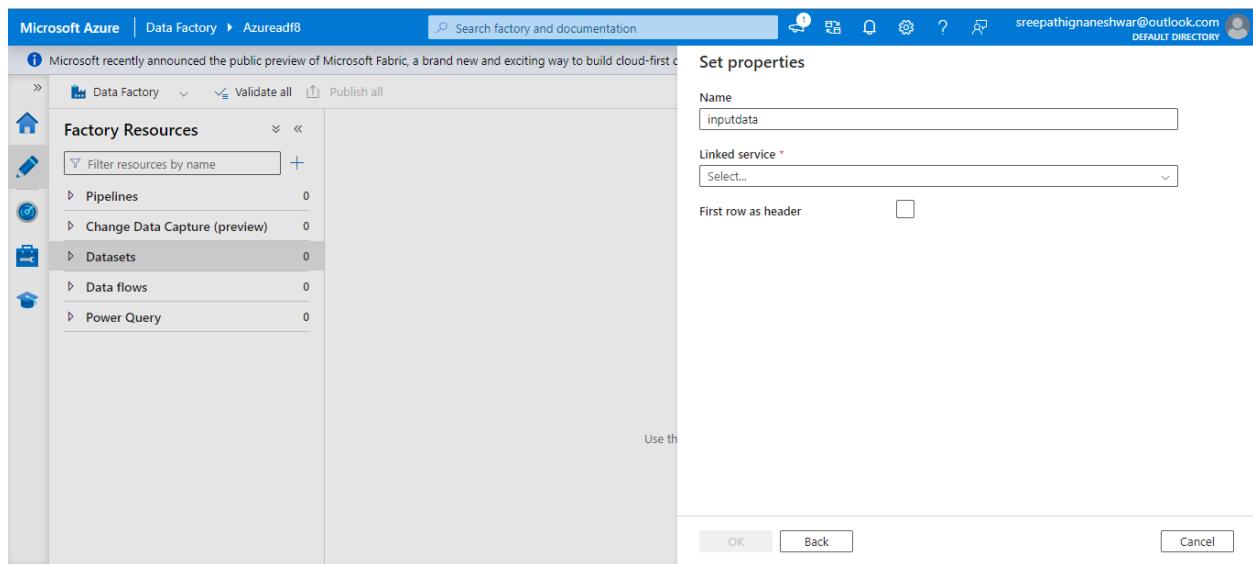
once that selected and done with continue it will ask dataset is what the extension that we need to select

select excel and continue.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar titled 'Factory Resources' with options like Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query. The 'Datasets' option is selected. A modal window titled 'Select format' is open on the right, prompting the user to choose a format type for their data. It displays a grid of nine icons representing different formats: Avro, Binary, DelimitedText, Excel, JSON, ORC, and others. The 'Excel' icon is highlighted.

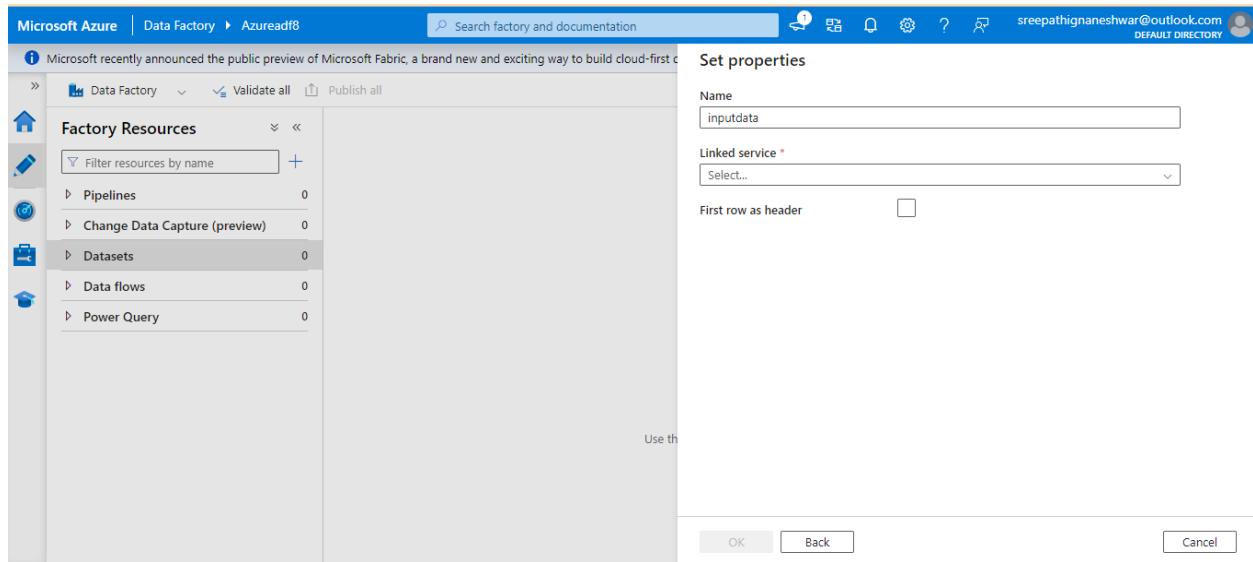
give name

The screenshot shows the Microsoft Azure Data Factory interface with the 'Datasets' option selected in the sidebar. A modal window titled 'Set properties' is open on the right, allowing the user to define properties for a dataset. In the 'Name' field, the value 'Excel1' is entered. Below it, the 'Linked service' dropdown is set to 'Select...'. There's also a checkbox for 'First row as header' which is unchecked. At the bottom of the dialog are 'OK', 'Back', and 'Cancel' buttons.



If we need to get data from anywhere first we need to create the path.

in order to set the path we have create on linked server



linked services are responsible for establishing the connection between services, so give name and click on link service

click on new

Microsoft Azure | Data Factory > Azureadf8

Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data solutions.

Data Factory Validate all Publish all

Factory Resources

- Pipelines 0
- Change Data Capture (preview) 0
- Datasets 0
- Data flows 0
- Power Query 0

New linked service

Azure Blob Storage Learn more

Name * Blob2adfconnection_is

Description

Connect via integration runtime * ⓘ

AutoResolveIntegrationRuntime

Authentication type

Account key

Connection string Azure Key Vault

Account selection method ⓘ

From Azure subscription Enter manually

Azure subscription ⓘ

Select all

Create Cancel Test connection

storage account name will come automatically due to we have created the blob storage account that we are pulling to ADF with link services.

Microsoft Azure | Data Factory > Azureadf8

Search factory and documentation

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data solutions.

Data Factory Validate all Publish all

Factory Resources

- Pipelines 0
- Change Data Capture (preview) 0
- Datasets 0
- Data flows 0
- Power Query 0

New linked service

Azure Blob Storage Learn more

From Azure subscription Enter manually

Azure subscription ⓘ

Free Trial (9679a898-eb02-4ef4-aa87-41e05ac9c877)

Storage account name * gnaneshwarsa

Additional connection properties

+ New

Test connection ⓘ

To linked service To file path

Annotations

+ New

> Parameters

> Advanced ⓘ

Create Cancel Test connection

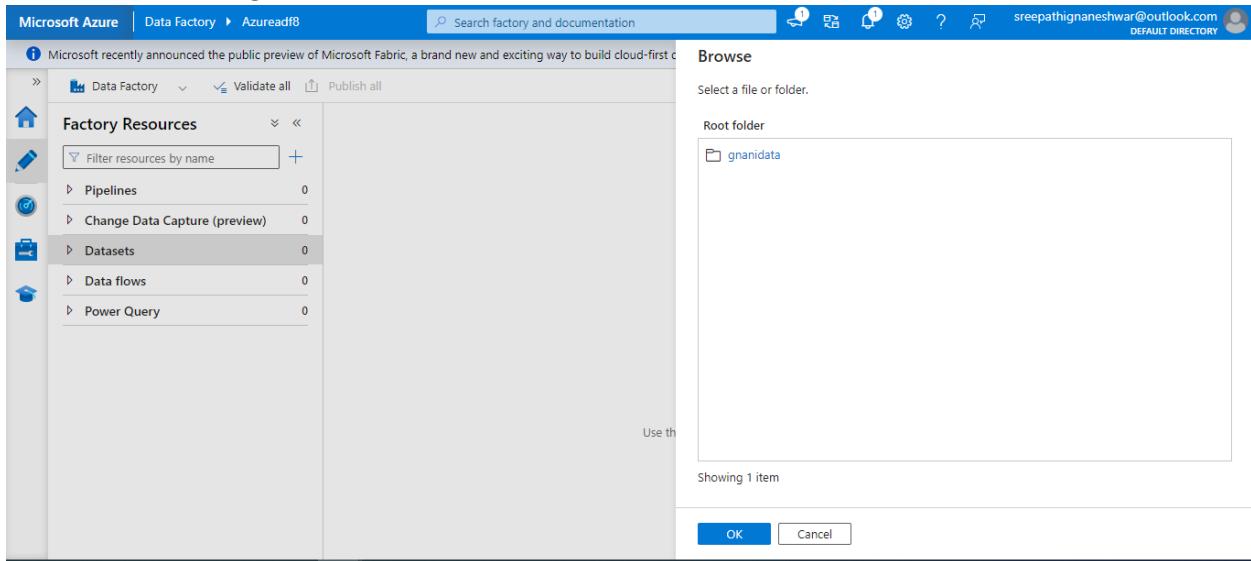
The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar with icons for Home, Pipelines, Change Data Capture, Datasets, Data flows, and Power Query. The main area is titled 'Factory Resources' and shows a list of resources: Pipelines (0), Change Data Capture (preview) (0), Datasets (0), Data flows (0), and Power Query (0). A search bar at the top says 'Search factory and documentation'. On the right, a modal window titled 'New linked service' is open. It has tabs for 'Azure Blob Storage' (selected) and 'From Azure subscription' (radio button selected). Under 'From Azure subscription', a dropdown shows 'Free Trial (9679a890-eb02-4ef4-aa87-41e05ac9c877)'. A text input for 'Storage account name' contains 'gnaneshwarsa'. Below that, 'Additional connection properties' and 'Test connection' (radio button selected for 'To linked service') are shown. A 'Create' button is at the bottom. A yellow box highlights the 'Test connection' button.

test connection
and create so link services are created.

click on file path to access

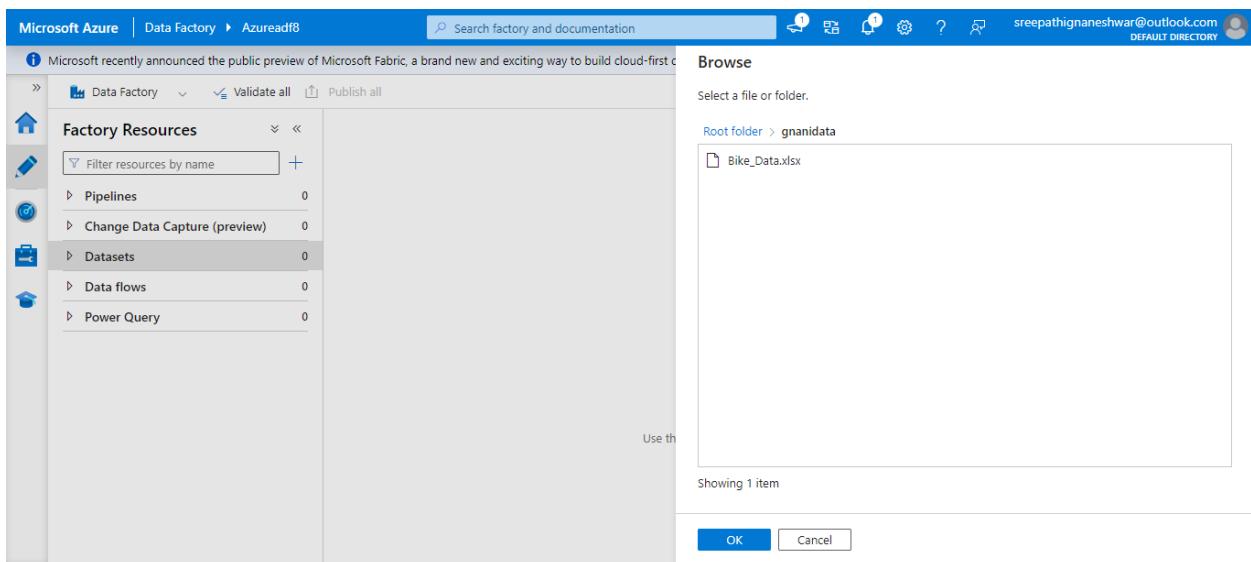
The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar is identical to the previous screenshot. The main area shows the same resource list. A modal window titled 'Set properties' is open. It has fields for 'Name' (inputdata), 'Linked service' (Blob2adfcollection_js), 'File path' (Container / Directory / File name), 'Worksheet mode' (radio button selected for 'Name'), 'Sheet name' (Select or type...), 'First row as header' (checkbox), and 'Import schema' (radio button selected for 'None'). At the bottom are 'OK', 'Back', and 'Cancel' buttons. A yellow box highlights the 'File path' field.

So automatically it will show gnanidata which we have created in blob storage. Due to now it ADF is linked to BLOB storage



The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar titled "Factory Resources" with icons for Home, Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query. The "Datasets" item is currently selected. In the center, there's a search bar at the top with the placeholder "Search factory and documentation". Below the search bar, there are buttons for "Validate all" and "Publish all". To the right of the search bar is a "Browse" dialog box. The dialog has a header "Browse" and a sub-header "Select a file or folder." It shows a tree view under "Root folder" with a single item named "gnanidata". At the bottom of the dialog are "OK" and "Cancel" buttons.

click on that bike data folder



This screenshot is similar to the previous one, showing the Microsoft Azure Data Factory interface. The "Datasets" item in the sidebar is still selected. The "Browse" dialog box is open, showing the path "Root folder > gnanidata". Inside the "gnanidata" folder, there is a single item named "Bike_Data.xlsx". The "OK" button is highlighted with a blue border, indicating it is the active button.

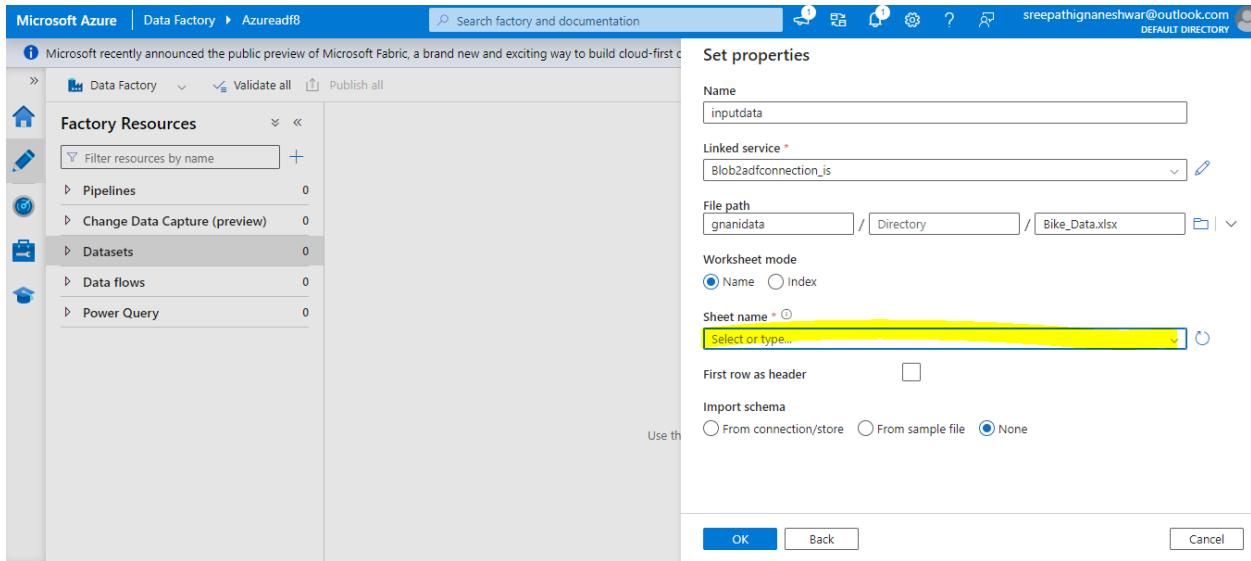
select bike data and ok

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query, all with a count of 0. In the center, a 'Browse' dialog is open, showing a file tree under 'gnanidata'. The file 'Bike_Data.xlsx' is selected. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

now access is done

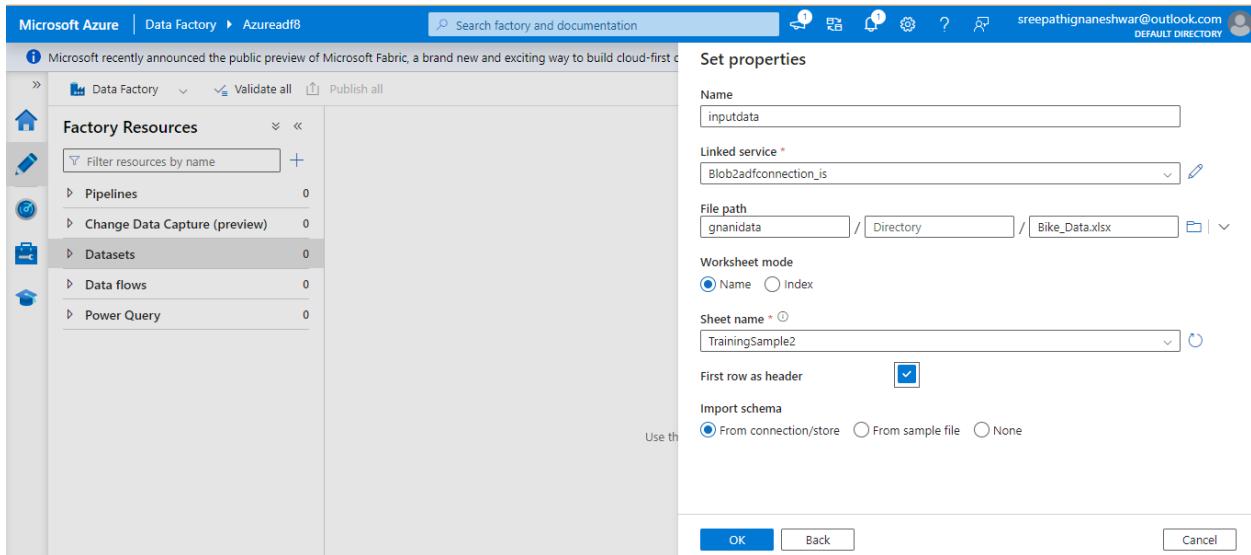
The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists Pipelines, Change Data Capture (preview), Datasets, Data flows, and Power Query, all with a count of 0. In the center, a 'Set properties' dialog is open for a dataset named 'inputdata'. The dialog includes fields for 'Name' (inputdata), 'Linked service' (Blob2adfconnection_is), 'File path' (gnanidata / Directory / Bike_Data.xlsx), 'Worksheet mode' (set to 'Name'), 'Sheet name' (Loading...), 'First row as header' (unchecked), and 'Import schema' (set to 'None'). At the bottom are 'OK', 'Back', and 'Cancel' buttons.

select the sheet details



The screenshot shows the 'Set properties' dialog for a dataset named 'inputdata'. The 'Sheet name' field is highlighted with a yellow background, indicating it is the current focus or selection. Other fields visible include 'Name' (inputdata), 'Linked service' (Blob2adfconnection_is), 'File path' (gnanidata / Directory / Bike_Data.xlsx), 'Worksheet mode' (Name selected), and 'Sheet name' (Select or type...).

select and also check the header for data is their or not



The screenshot shows the 'Set properties' dialog for a dataset named 'inputdata'. The 'First row as header' checkbox is checked, indicating that the first row of the data will be used as the header. Other fields visible include 'Name' (inputdata), 'Linked service' (Blob2adfconnection_is), 'File path' (gnanidata / Directory / Bike_Data.xlsx), 'Worksheet mode' (Name selected), and 'Sheet name' (TrainingSample2).

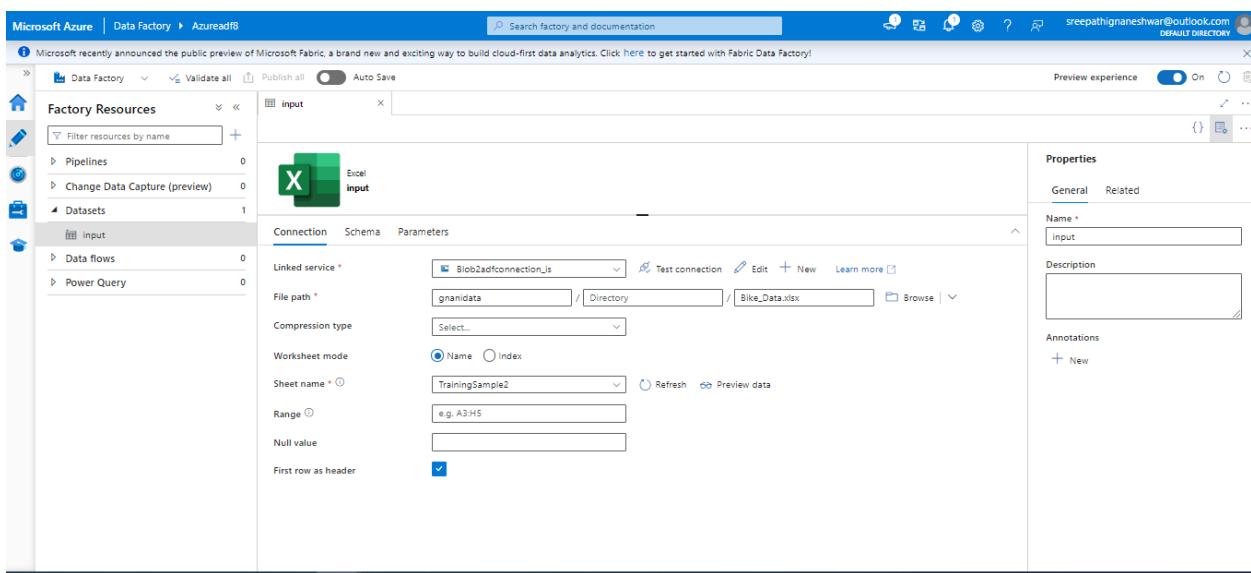
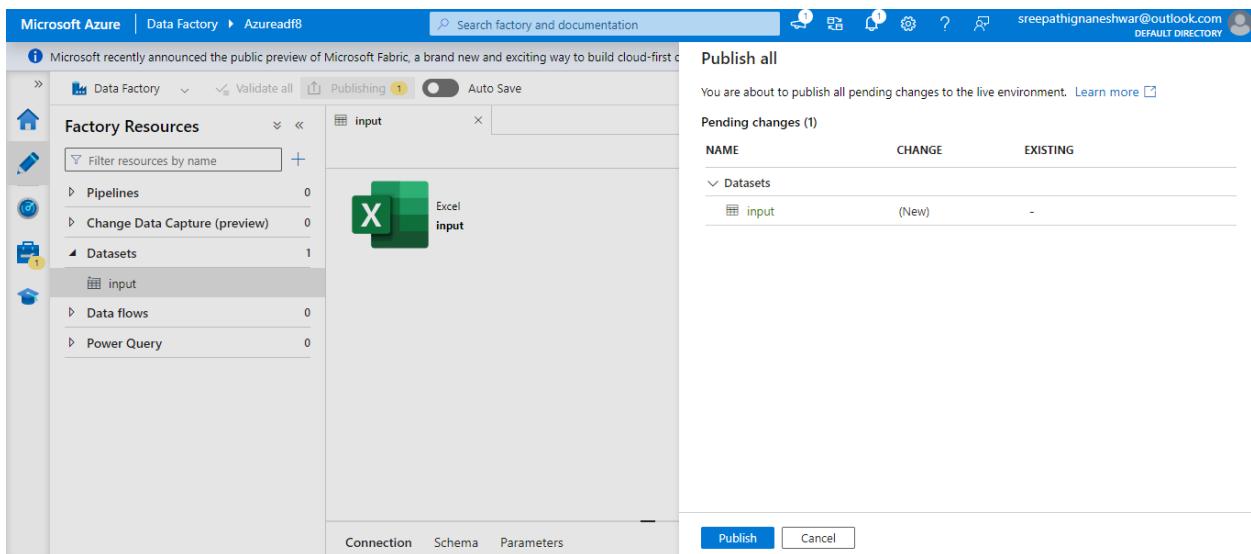
ok

The screenshot shows the Microsoft Azure Data Factory interface. On the left, there's a sidebar with icons for Home, Pipelines, Change Data Capture, Datasets, Data flows, and Power Query. The main area is titled 'Factory Resources' and shows a list of resources: Pipelines (0), Change Data Capture (0), Datasets (0), Data flows (0), and Power Query (0). A search bar at the top says 'Search factory and documentation'. On the right, a 'Set properties' dialog is open for a dataset named 'inputdata'. The dialog includes fields for 'Name' (inputdata), 'Linked service' (Blob2adfconnection_js), 'File path' (granidata / Directory / Bike_Data.xlsx), 'Worksheet mode' (Name selected), 'Sheet name' (TrainingSample2), 'First row as header' (selected), 'Import schema' (From connection/store selected), and 'Use this schema' (None selected). At the bottom right of the dialog are 'OK', 'Back', and 'Cancel' buttons, with 'OK' being circled in blue.

now we have brought the bike data inside the ADF

The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar shows 'Factory Resources' with 'Datasets' expanded, showing one item named 'input'. The main area displays the properties for this dataset. The 'input' icon is shown, followed by the text 'Excel input'. On the right, the 'Properties' panel is open under the 'General' tab, showing 'Name' (input) and 'Description' (empty). Below the properties are sections for 'Annotations' and '+ New'. At the bottom of the dataset view, there are tabs for 'Connection', 'Schema', and 'Parameters'. At the very top of the page, there's a navigation bar with 'Microsoft Azure', 'Data Factory', 'Azureadbf', a search bar, and user information.

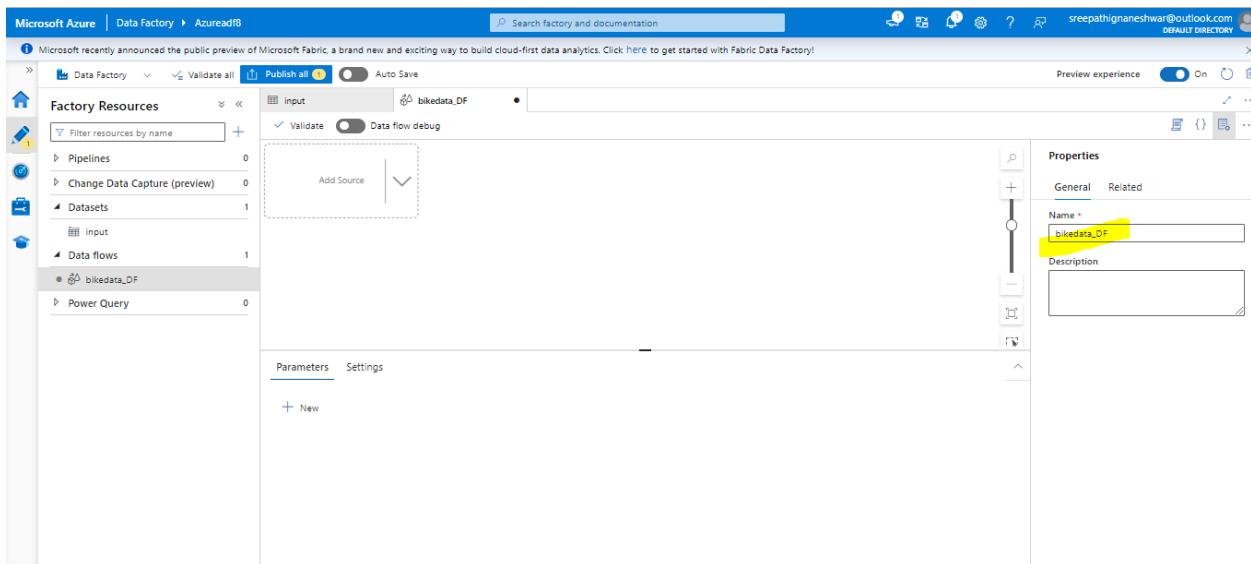
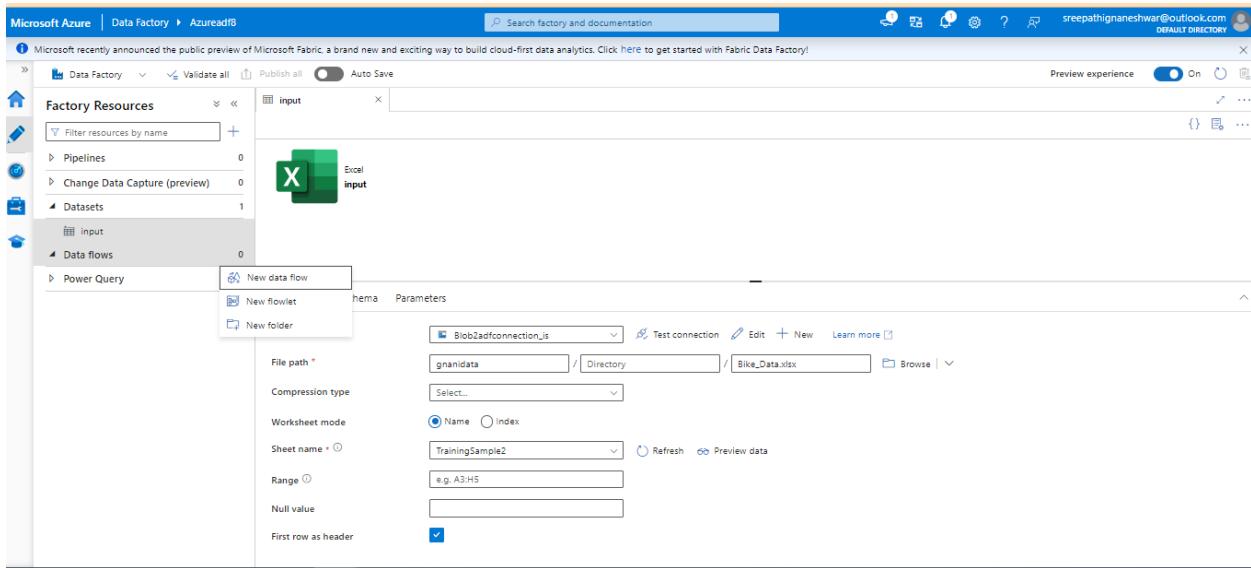
now click on publish because there is no save button



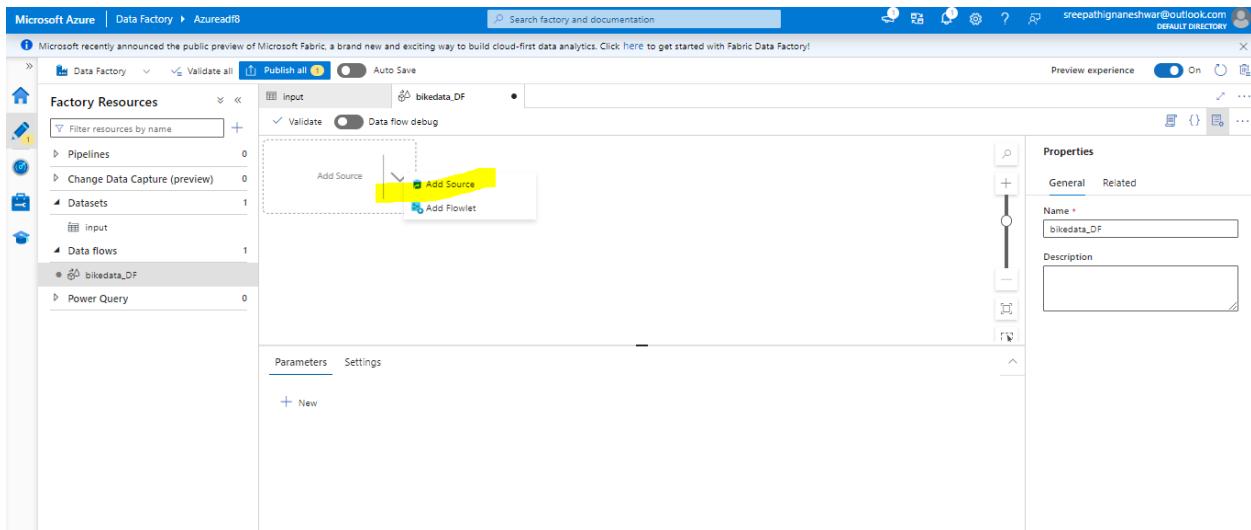
published

so now transformation purpose we need to use dataflow or power query

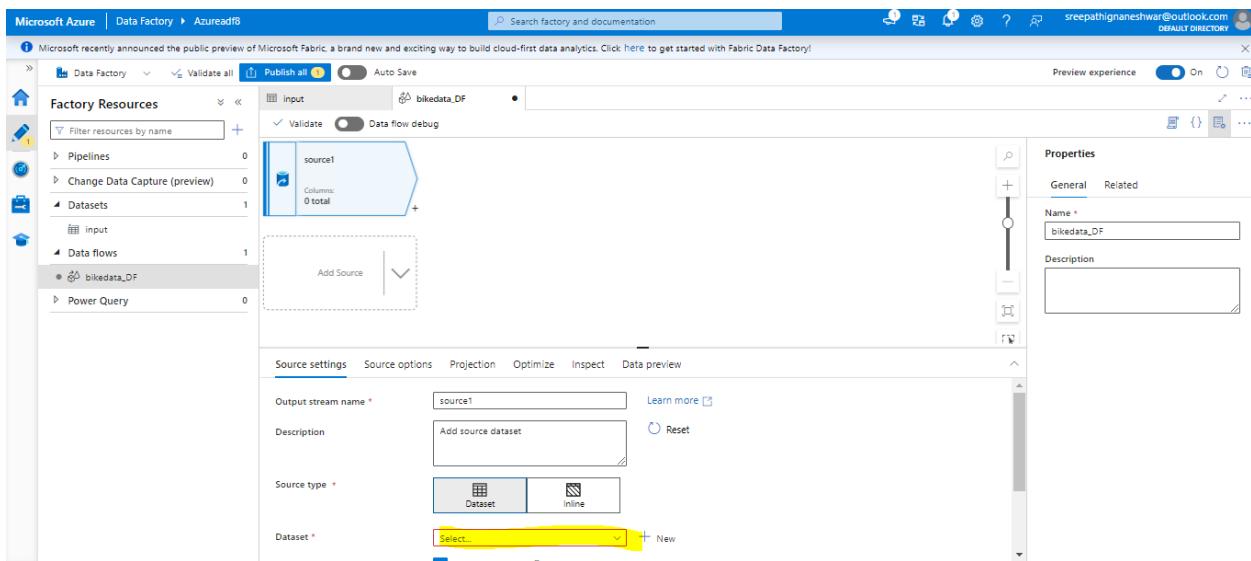
now we will use dataflow.



add source



select the dataset which we have given input from blob we have taken data.



also we can give name for this activity, and this is called activity

The screenshot shows the Microsoft Fabric Data Flow interface. On the left, the 'Factory Resources' sidebar lists Pipelines (0), Change Data Capture (preview) (0), Datasets (1), Data flows (1), and Power Query (0). The 'Data flows' section contains one item named 'bikedata_DF'. The main workspace displays a data flow diagram with a single source activity named 'getbikedata'. The properties pane on the right shows the 'Name' field set to 'bikedata_DF'. The 'Source settings' tab is selected, showing the output stream name 'getbikedata', a description 'Import data from input', and a dataset type set to 'input'. The 'Data preview' tab is also visible.

switch on the debug mode for 1 hour.

The screenshot shows the Microsoft Fabric Data Flow interface with the 'Turn on data flow debug' dialog open. The dialog includes fields for 'Integration runtime' (set to 'AutoResolveIntegrationRuntime'), 'Region' (set to 'AutoResolve'), 'Compute size' (set to 'Small'), and 'Debug time to live' (set to '1 hour'). The 'OK' button is highlighted at the bottom right of the dialog.

we have kept 1 hour to automatically it will switch off

This screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (1), 'Data flows' (1), and 'Power Query' (0). The 'Datasets' section shows an 'input' dataset. In the main workspace, a data flow named 'bikedata_DF' is displayed, consisting of a single step labeled 'getbikedata'. The 'Properties' pane on the right shows the dataset's name as 'bikedata_DF' and its description as 'Import data from input'. The 'Source settings' tab is selected, showing the source type as 'Dataset' and the dataset as 'input'. Under 'Options', the 'Allow schema drift' checkbox is checked. The 'Sampling' section has 'Disable' selected. A yellow circle highlights the 'Data flow debug' button in the top navigation bar.

This screenshot shows the same Microsoft Azure Data Factory interface as the previous one, but with a different focus. The 'Data flow debug' button in the top navigation bar is highlighted with a yellow circle. The rest of the interface is identical to the first screenshot, showing the 'bikedata_DF' dataset and its properties.

connected to debug

check all sources

The screenshot shows the Microsoft Data Factory interface. On the left, the 'Factory Resources' sidebar lists Pipelines (0), Change Data Capture (preview) (0), Datasets (1), and Data flows (1). The 'Datasets' section shows an 'input' dataset named 'bikedata_DF'. The main workspace displays a data flow named 'getbikedata' with one source, 'bikedata_DF'. The 'Source options' tab is selected, showing settings like 'Wildcard paths', 'Partitions root path', and 'Allow no files found'. The 'Properties' panel on the right shows the dataset's name as 'bikedata_DF'.

This screenshot shows the same Microsoft Data Factory interface as above, but with the 'Projection' tab selected for the 'bikedata_DF' dataset. The 'Source options' tab is still visible at the top. The 'Projection' tab allows defining column mappings and data types. A table below shows the columns and their corresponding types and formats:

Column name	Type	Format
Region	abc_string	Specify format
Country	abc_string	Specify format
Customer	abc_string	Specify format
Business Segment	abc_string	Specify format
Category	abc_string	Specify format
Model	abc_string	Specify format
Color	abc_string	Specify format
SalesDate	abc_string	Specify format
ListPrice	abc_string	Specify format
UnitPrice	abc_string	Specify format

Microsoft Azure | Data Factory > Azureadfb

Search factory and documentation

Validate all Auto Save

Preview experience On

Factory Resources

Pipelines: 0 Change Data Capture (preview): 0 Datasets: 1 Data flows: 1 Power Query: 0

Filter resources by name

input bikedata_DF

Validate Data flow debug Debug Settings

Source settings Source options Projection Optimize Inspect Data preview

Partition option * Use current partitioning Single partition Set partitioning

Properties

Name: bikedata_DF

Description:

This screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists Pipelines (0), Change Data Capture (preview) (0), Datasets (1), Data flows (1), and Power Query (0). The 'Datasets' section is expanded, showing an 'input' dataset named 'bikedata'. In the main workspace, there is a single data flow named 'bikedata_DF' with one input stage named 'getbikedata'. The 'Inspect' tab is selected, showing the schema of the dataset with 11 columns: Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate, ListPrice, UnitPrice, and OverUnit. The 'Properties' panel on the right shows the dataset's name as 'bikedata_DF' and its description field is empty.

Microsoft Azure | Data Factory > Azureadfb

Search factory and documentation

Validate all Auto Save

Preview experience On

Factory Resources

Pipelines: 0 Change Data Capture (preview): 0 Datasets: 1 Data flows: 1 Power Query: 0

Filter resources by name

input bikedata_DF

Validate Data flow debug Debug Settings

Source settings Source options Projection Optimize Inspect Data preview

Number of columns Total: 11

Order	Column	Type
1	Region	abc string
2	Country	abc string
3	Customer	abc string
4	Business Segment	abc string
5	Category	abc string
6	Model	abc string
7	Color	abc string
8	SalesDate	abc string
9	ListPrice	abc string
10	UnitPrice	abc string
11	OverUnit	abc string

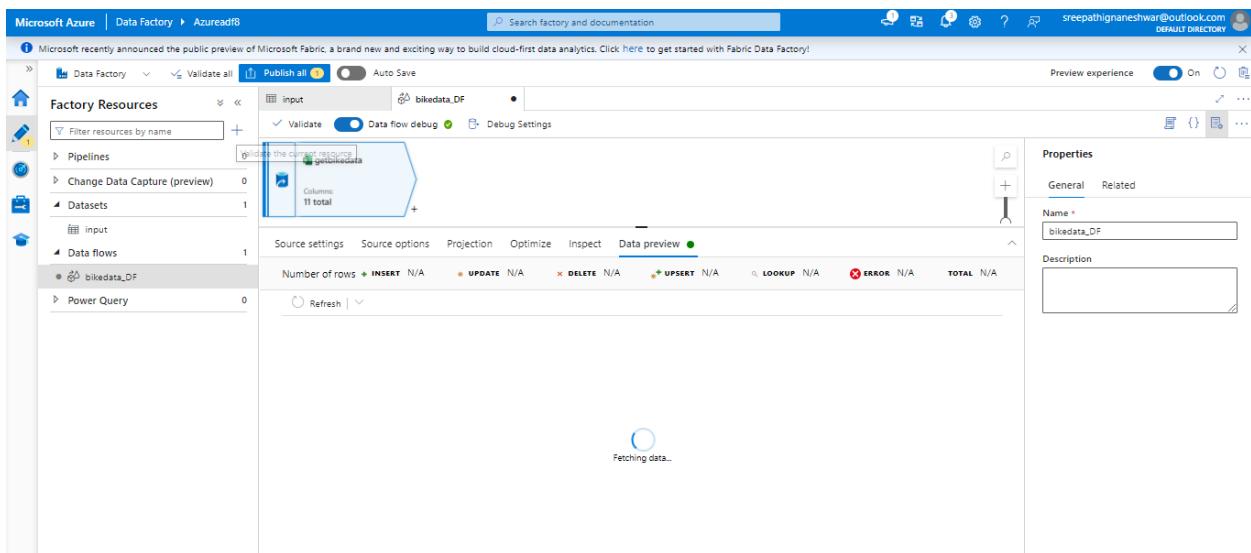
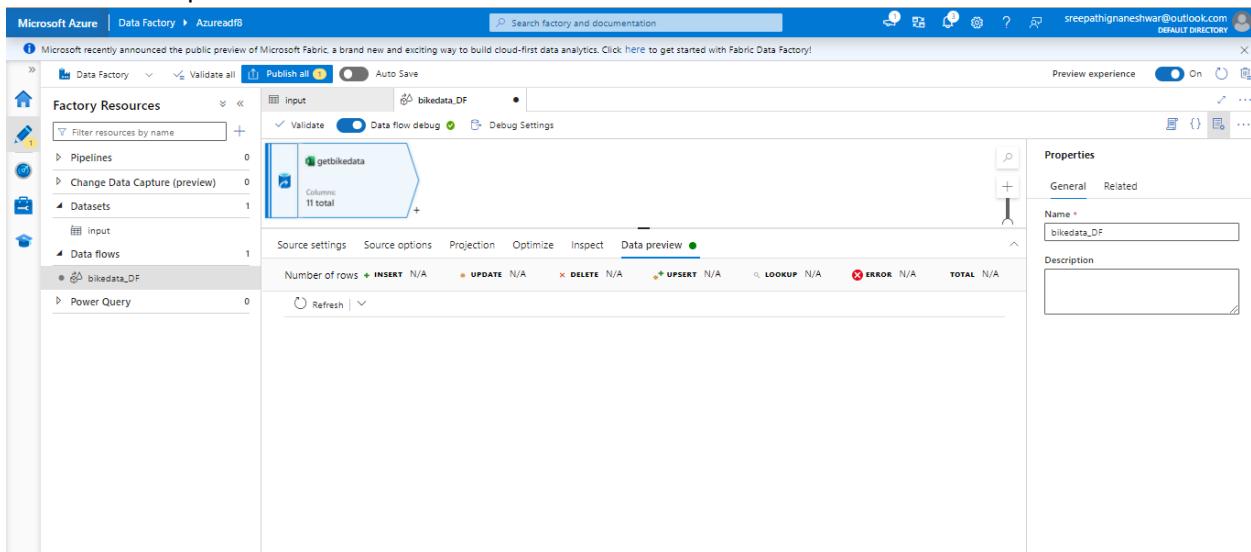
Properties

Name: bikedata_DF

Description:

This screenshot shows the Microsoft Azure Data Factory interface, identical to the first one but with the 'Inspect' tab selected. It displays the detailed schema of the dataset 'bikedata' with 11 columns: Region, Country, Customer, Business Segment, Category, Model, Color, SalesDate, ListPrice, UnitPrice, and OverUnit. The 'Properties' panel on the right shows the dataset's name as 'bikedata_DF' and its description field is empty.

refresh in data preview



data is in preview now

so for this no sales, profit, and cost

The screenshot shows the Microsoft Data Factory interface. In the left sidebar, under 'Factory Resources', there is a 'Datasets' section with one item named 'input'. Below it is a 'Data flows' section with one item named 'bikedata_DF'. The main workspace displays a data preview of the 'bikedata_DF' dataset. The preview table has 11 rows and columns labeled: Region, Country, Customer, Business_Segment, Category, Model, Color, SalesDate, ListPrice, UnitPrice, and OrderQty. The data shows various bike models like 'Road Bike', 'Mountain Bike', and 'Cycling Jersey' across different regions and countries.

This screenshot shows the same Microsoft Data Factory interface as above, but the 'Properties' panel on the right is open for the 'bikedata_DF' dataset. In the 'General' tab, the 'Name' field is set to 'bikedata_DF'. The 'Type' column in the preview table now shows the correct data types: Region, Country, Customer, Business_Segment, Category, Model, Color, SalesDate, ListPrice, and UnitPrice are all set to 'string', while OrderQty is set to 'integer'.

ideally we know data type of **list price** and **unit price** should be **float** and **orderqty** will be **integer**.

this all transformation we can do

The screenshot shows the Microsoft Azure Data Factory Data Flow interface. A pipeline step named "getbikedata" is selected, which has 11 columns. The "Properties" panel on the right shows the dataset name as "bikedata_DF". The "Format" section for each column is set to "Specify format".

click on derived column

The screenshot shows the Microsoft Azure Data Factory Data Flow interface. The "Schema modifier" dropdown menu is open, and the "Derived Column" option is highlighted with a yellow box and a blue cursor arrow.

add columns

The screenshot shows the Microsoft Azure Data Factory Data Flow interface. On the left, the 'Factory Resources' sidebar lists Pipelines (0), Change Data Capture (preview) (0), Datasets (1), and Data flows (1). The selected 'Data flows' item is expanded, showing a single entry: 'bikedata_DF'. The main workspace displays a data flow diagram with two main components: 'getbikedata' (Import data from input) and 'calculateCostSales' (Derived column step). The 'calculateCostSales' step has a tooltip indicating 'Columns: 13 total'. The 'Properties' pane on the right shows the 'Name' as 'bikedata_DF' and the 'Description' field is empty. The 'Derived column's settings' tab is active, showing the output stream name 'calculateCostSales' and the incoming stream 'getbikedata'. Under the 'Columns' section, there are two columns: 'cost' and 'sales', each with an 'Expression' input field.

This screenshot is identical to the one above, showing the Microsoft Azure Data Factory Data Flow interface. The 'calculateCostSales' derived column step is highlighted with a yellow box, and the 'Open expression builder' button in its 'Expression' input field is also highlighted with a yellow box. This indicates that the user is being guided to click on the expression builder to define the formulas for the new columns.

don't know formulas but there is expressions , click on expression builder.,

select require things.

The screenshot shows the Microsoft Azure Data Factory Dataflow expression builder. A derived column named 'cost' is being created. The 'Expression' field contains the expression 'cost'. The 'Expression elements' pane on the left lists various components like All, Functions, Input schema, Parameters, Cached lookup, Data flow library functions, and Locals. The 'Expression values' pane on the right lists items such as abc:Region, abc:Country, abc:Customer, abc:Business Segment, and abc:Category. A save button is visible in the top right corner.

do the same for sales.

The screenshot shows the Microsoft Azure Data Factory Dataflow expression builder. A derived column named 'cost' is being created. The 'Expression' field contains the expression 'UnitPrice*OrderQty'. The 'Expression elements' pane on the left lists components like All, Functions, Input schema, Parameters, Cached lookup, Data flow library functions, and Locals. The 'Expression values' pane on the right lists items such as abc:SalesDate, abc>ListPrice, abc:UnitPrice, abc:OrderQty, and abc:abc.abc.numeric_value. A save button is visible in the top right corner.

Microsoft Azure | Data Factory > Azureadfb

Dataflow expression builder

Column name * sales

Expression

```
ListPrice*OrderQty
```

Expression elements

- All
- Functions
- Input schema
- Parameters
- Cached lookup
- Data flow library functions
- Locals

Expression values

- SaleDate
- ListPrice
- UnitPrice
- OrderQty
- shredded_numeric_value*

Data preview

Save and finish Cancel Clear contents

now 2 columns are increased 11 to 13 coulmns

Microsoft Azure | Data Factory > Azureadfb

Factory Resources

- Pipelines: 0
- Change Data Capture (preview): 0
- Datasets: 1
- Data flows: 1
- Power Query: 0

bikedata_DF

input → calculateCostSales → output

Properties

Name: bikedata_DF

Description:

Output stream name: calculateCostSales

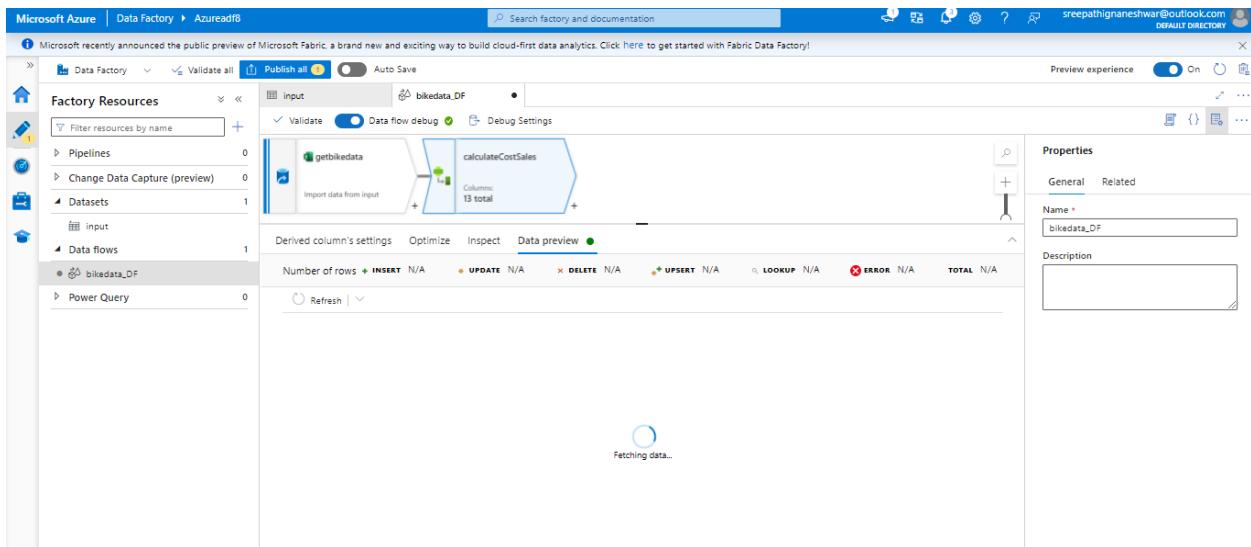
Derived column's settings

Incoming stream: getbikedata

Columns:

Column	Expression
cost	UnitPrice*OrderQty
sales	ListPrice*OrderQty

check data preview weather columns are added or not



added

The screenshot shows the Microsoft Azure Data Factory Data Flow blade with the same configuration as the previous one. The 'Data preview' tab is now active, displaying a table with 10 rows of data. The columns are: Model, Color, Sales..., ListPri..., UnitP..., Order..., cost, sales, and profit. The data includes various bike models like 'Ll Ro...', 'Moun...', 'Long...', 'Hl M...', 'Road...', 'Road...', 'Road...', 'Road...', and 'Road...', each with specific values for color, sales price, list price, unit price, order quantity, cost, sales, and profit.

Model	Color	Sales...	ListPri...	UnitP...	Order...	cost	sales	profit
Ll Ro...	Red	2020...	337.22	183.94	1	183.94	337.22	
Moun...	Silver	2020...	3399.99	2039.99	1	2039.99	3399.99	
Long...	Multi	2020...	49.99	28.84	6	173.0...	299.94	
Hl M...	Black	2020...	1349.6	714.7	2	1429.4	2699.2	
Road...	Red	2020...	1457.99	874.79	2	1749.58	2915.98	
Road...	Black	2020...	782.99	419.46	2	838.92	1565.98	
Road...	Red	2020...	782.99	419.46	4	1677.84	3131.96	
Road...	Red	2020...	1457.99	874.79	1	874.79	1457.99	
Road...	Black	2020...	782.99	419.46	?	838.92	1565.98	

Now do the same for profit
means added the derived coulum in task and add profit column

Microsoft Azure | Data Factory > Azureadfb

Dataflow expression builder

Column name: profit

Expression: sales-cost

Expression elements:

- All
- Functions
- Input schema
- Parameters
- Cached lookup
- Data flow library functions
- Locals

Expression values:

- OrderQty
- cost
- sales
- abs(numeric_value)
- acos(numeric_value)

Data preview: Refresh

Save and finish | Cancel | Clear contents

now weather its correct or not need to check in debug mood on preview data.

Microsoft Azure | Data Factory > Azureadfb

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click [here](#) to get started with Fabric Data Factory!

Factory Resources

Pipelines: 0

Change Data Capture (preview): 0

Datasets: 1

Data flows: 1

bikedata_DF

Power Query: 0

Properties

Name: bikedata_DF

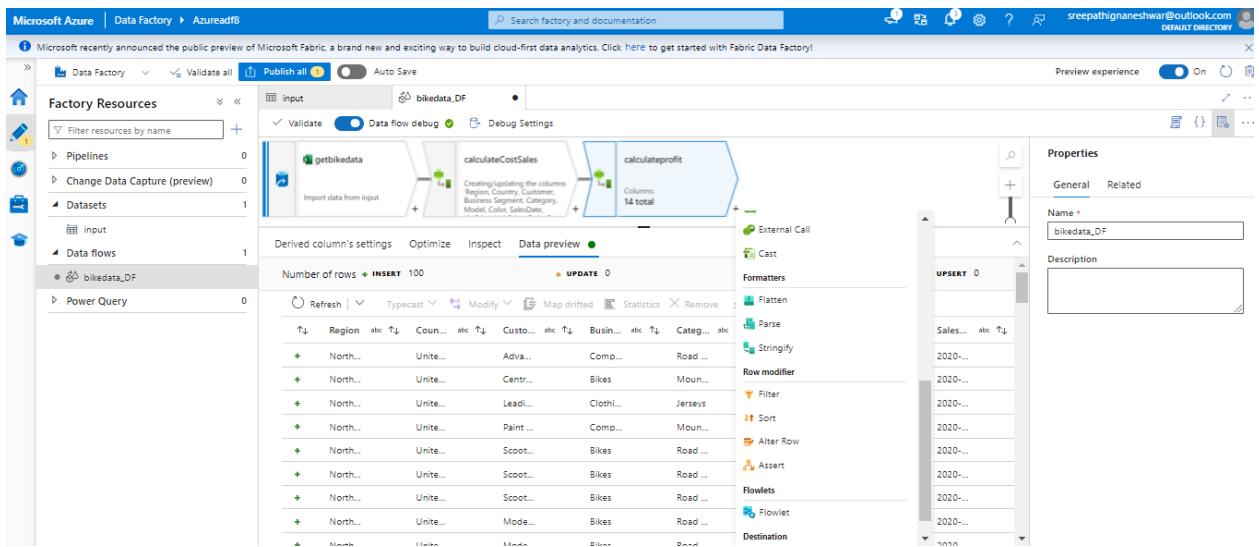
Description

abc	Color	abc	Sales...	abc	ListPr...	abc	UnitP...	abc	Order...	abc	cost	abc	sales	abc	profit	abc
	Red		2020...		337.22		183.94		1		183.94		337.22		153.28	
	Silver		2020...		3399.99		2039.99		1		2039.99		3399.99		1360.0	
	Multi		2020...		49.99		28.84		6		173.0...		299.94		1268.0	
	Black		2020...		1349.6		714.7		2		1429.4		2699.2		1269.0	
	Red		2020...		1457.99		874.79		2		1749.58		2915.98		1166.4	
	Black		2020...		782.99		419.46		2		838.92		1565.98		727.06	
	Red		2020...		782.99		419.46		4		1677.84		3131.96		1454.12	
	Red		2020...		1457.99		874.79		1		874.79		1457.99		583.2	
	Plastic		2020...		782.00		419.46		2		838.92		1565.98		727.06	

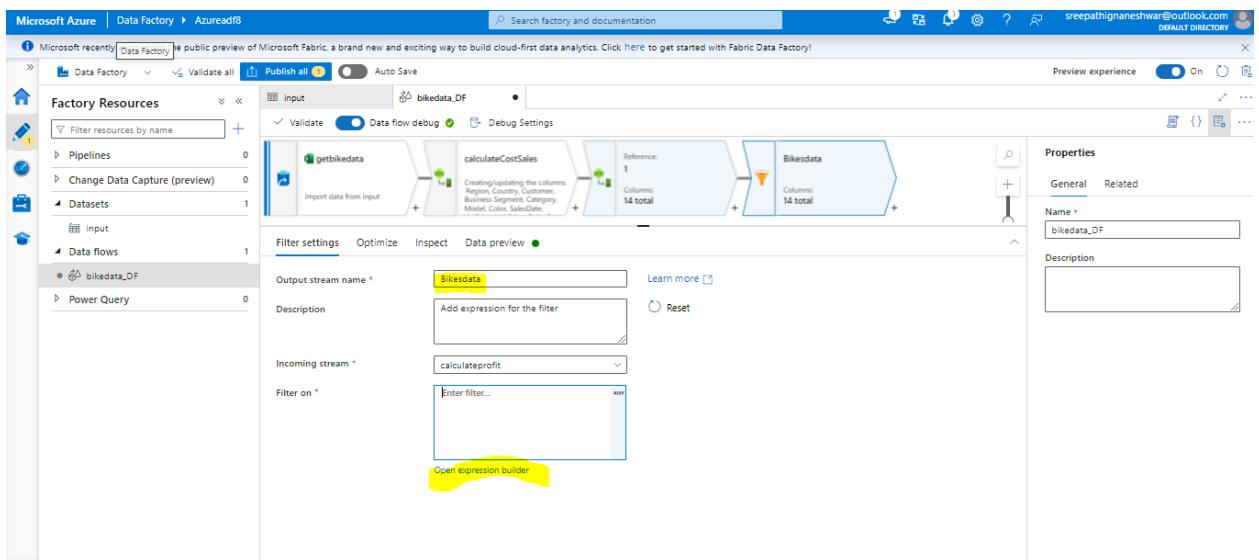
yes all fine

now from data we need to do analysis for only one particular data that are bikes from business segments.

filter



click on filter and give any stream name like bikesdata.
then open expression building



formula

Microsoft Azure | Data Factory > Azureadf8

Search factory and documentation

Dataflow expression builder

Bikesdata

Expression

```
{@Business_Segment} == 'Bikes'
```

Expression elements

All Functions Input schema Parameters Cached lookup Data flow library functions

Region Country Customer Business Segment Category

Expression values

Create new

Data preview Refresh Clear contents

Save and finish Cancel

next again test it by debug data preview.

now only we got bike data

Microsoft Azure | Data Factory > Azureadf8

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!

Data Factory Validate all Publish all Auto Save

Factory Resources

Pipelines 0 Change Data Capture (preview) 0 Datasets 1

input

Data flows 1

bikedata_DF

Power Query 0

input

Validate Data flow debug Debug Settings

Number of rows: 100

Properties

Name: bikedata_DF

Description:

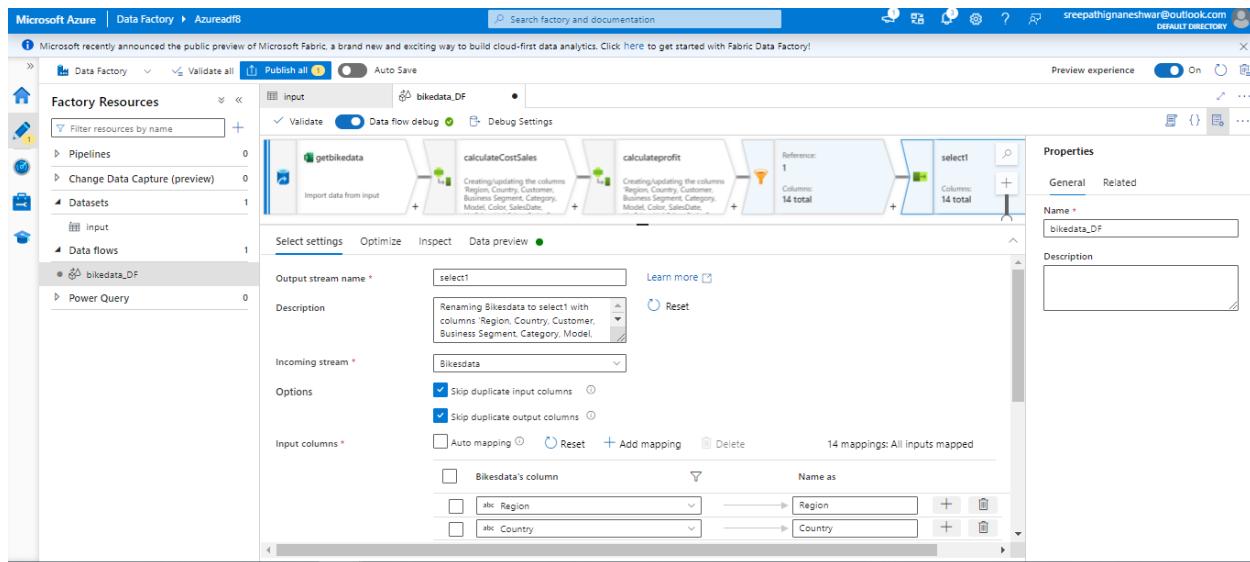
Preview experience: On

Number of rows: 100

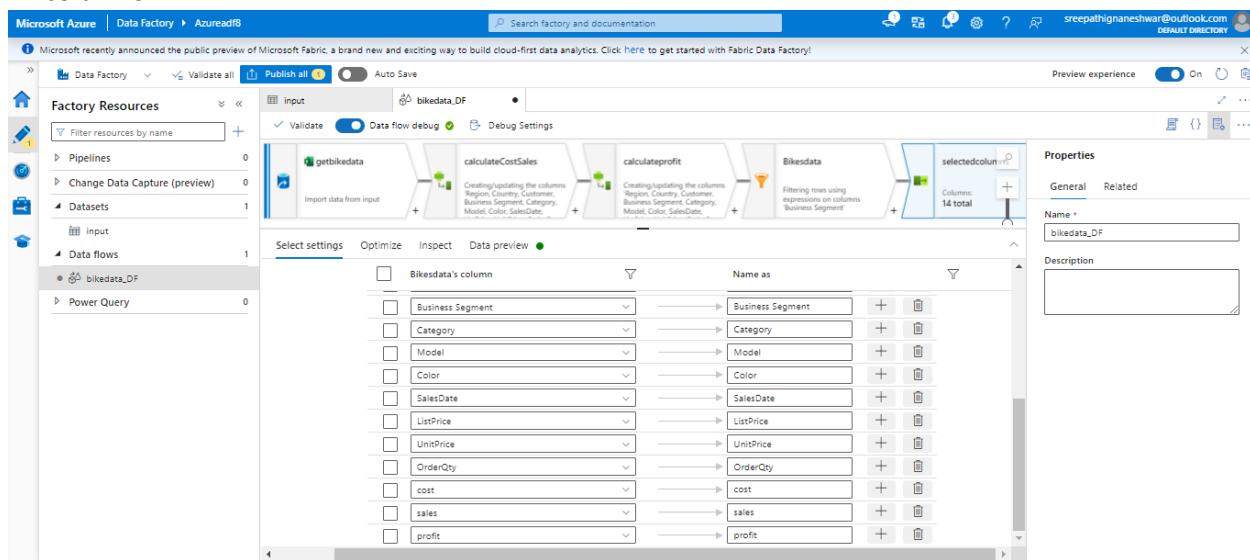
Number of rows: 100

	Region	Unite...	Coun...	Busin...	Category	Model	Color	Sales...
+	North...	United...	Centr...	Bikes	Moun...	Road ...	Red	2020...
+	North...	United...	Scoot...	Bikes	Road ...	Road...	Black	2020...
+	North...	United...	Scoot...	Bikes	Road ...	Road...	Red	2020...
+	North...	United...	Scoot...	Bikes	Road ...	Road...	Red	2020...
+	North...	United...	Mode...	Bikes	Road ...	Road...	Red	2020...
+	North...	United...	Mode...	Bikes	Road ...	Road...	Black	2020...
+	North...	Canada	Metal...	Bikes	Road ...	Road...	Red	2020...
+	North...	United...	Excell...	Bikes	Road ...	Road...	Red	2020...
+	North	United	Excell...	Bikes	Road ...	Road...	Red	2020...

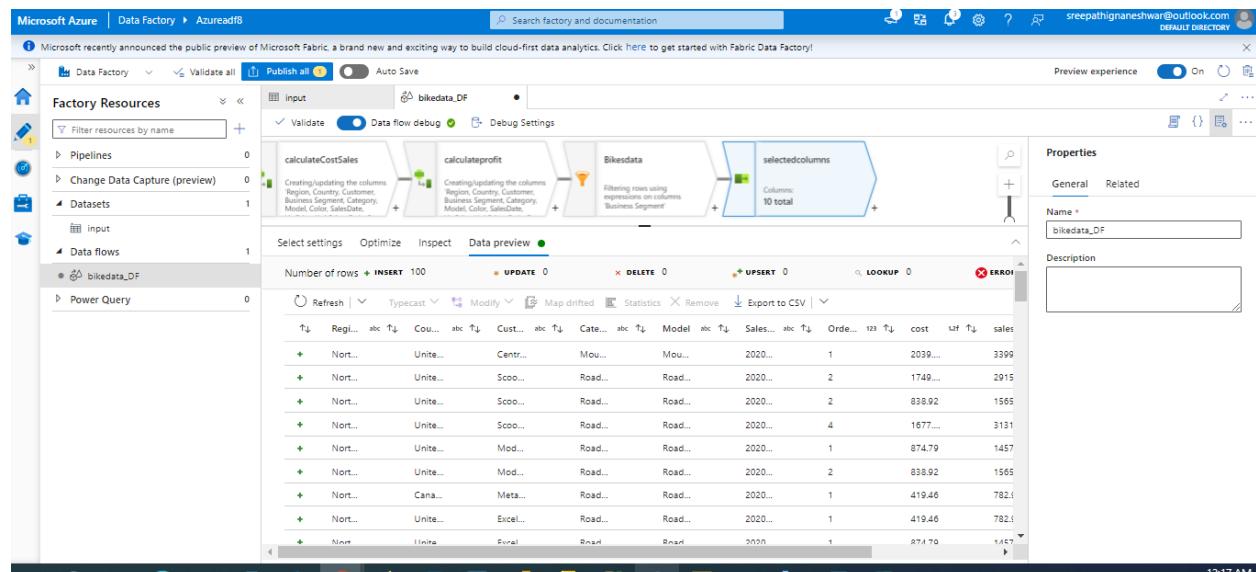
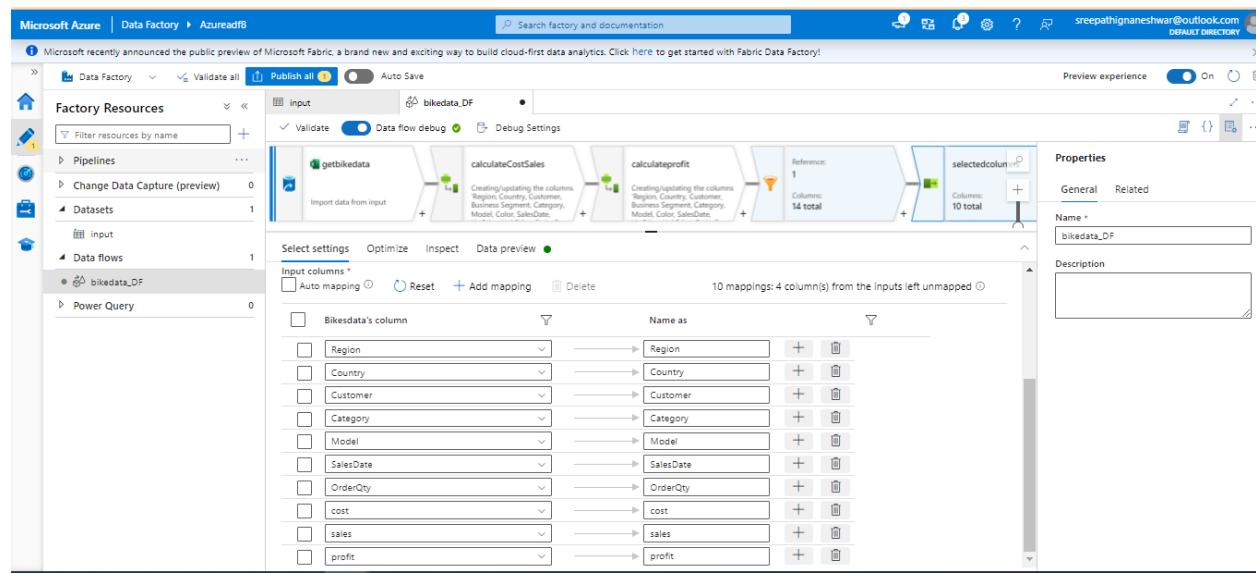
Now select the selected columns because other columns are not required



14 columns



reduced to 10 columns because removed unwanted columns . PFB



10 cloumns are appear.

if we publish it will through error

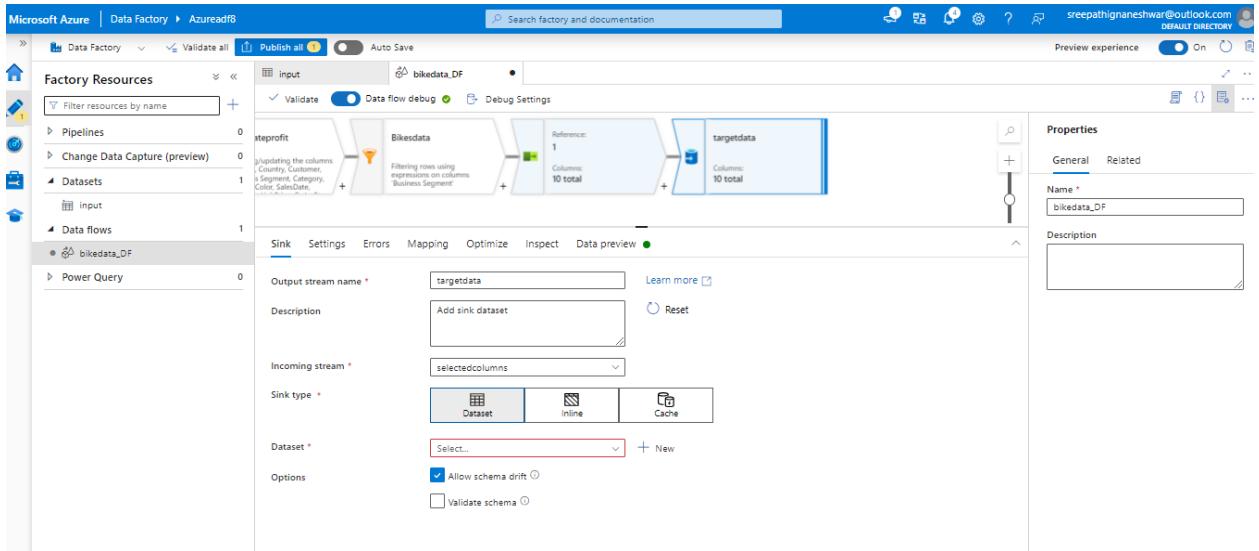
The screenshot shows the Microsoft Azure Data Factory Data Flow blade. On the left, the 'Factory Resources' sidebar lists Pipelines, Change Data Capture (preview), Datasets, and Data flows. Under 'Data flows', 'bikedata_DF' is selected. The main workspace displays a data flow pipeline with three stages: 'input', 'calculateprofit', and 'Bikesdata'. A validation error message is displayed in the top right corner: 'Publishing error: Validation of model(s) failed. Fix it before publishing. Failed to publish change(s) because of the following validation error(s). Fix error(s) to continue publishing.' Below the pipeline, a data preview table shows 10 rows of sample data.

we need to close the end point
that is we need to select sink . that means close the pipe line.

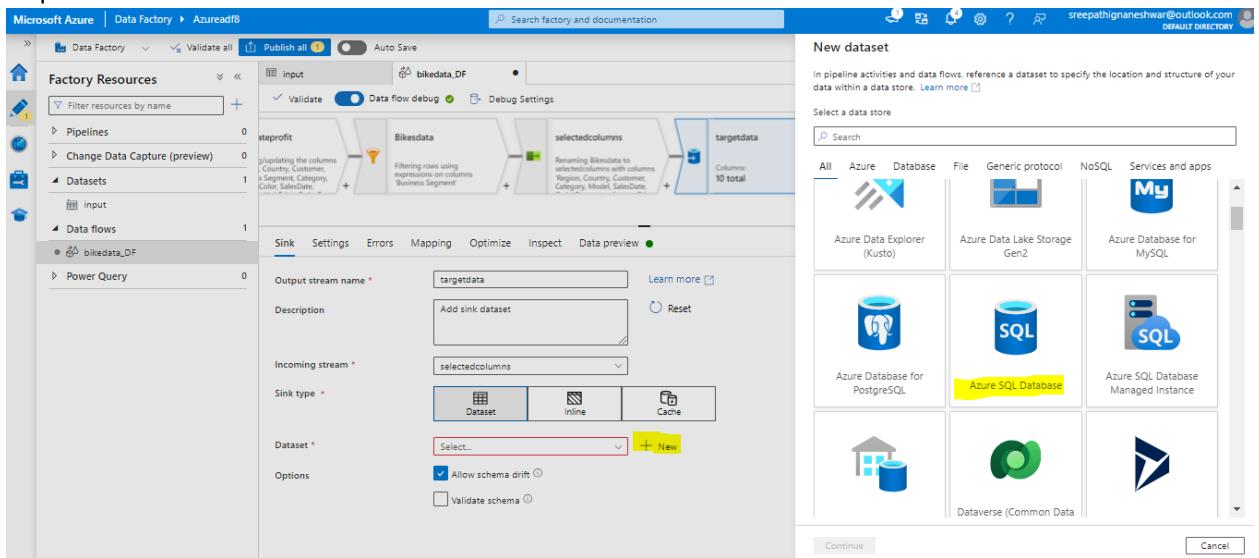
The screenshot shows the Microsoft Azure Data Factory Data Flow blade after modifications. The pipeline now includes a 'sink' transformation at the end of the flow. The 'Properties' pane on the right shows the sink is named 'DF'. The validation error message is no longer present. The data preview table now shows 14 total rows of sample data.

total 6 transformations we can that 6 activities. added

we have not created another temporary data to store this data.



so create one more dataset. This time, data need to push to sql server, so another link services required.



Set properties

Name: AzureSqlTable1

Linked service: Select...

Output stream name: targetdata

Description: Add sink dataset

Incoming stream: selectedcolumns

Sink type: Dataset

Dataset: Select...

Options:

- Allow schema drift
- Validate schema

New linked service

Azure SQL Database Learn more

Name: asf2sqlconnection_ls

Description:

Connect via integration runtime: AutoResolveIntegrationRuntime

Version: Recommended

Import from connection string

Account selection method: From Azure subscription

Azure subscription: Free Trial (9679a098-eb02-4ef4-aa87-41e05ac9c877)

Server name: gnani-sql

Database name: Select SQL database

Authentication type:

Create Cancel Test connection

Home > Microsoft.SQLDatabase.newDatabaseNewServer_2a106e1da1f148d1bba0a | Overview > gnaneshwar-sql (gnani-sql/gnaneshwar-sql)

the highlighted is server name of A.sql

Database name will autofill due to already created

The screenshot shows the Microsoft Azure Data Factory interface. A pipeline named 'bikedata_DF' is displayed, containing three stages: 'stepprofit', 'Bikesdata', and 'selectedcolumns'. The output stream is named 'targetdata'. On the right, a 'New linked service' dialog is open for an 'Azure SQL Database' connection. The 'Database name' field is populated with 'gnaneshwar-sql'. Other fields include 'Authentication type' (SQL authentication), 'User name' (gnaneshwar), and 'Password' (*****). The 'Test connection' button is highlighted with a yellow box.

all done check test connection.

The screenshot shows the Microsoft Azure Data Factory interface. The same pipeline 'bikedata_DF' is displayed. The 'New linked service' dialog on the right now shows a successful connection, indicated by the 'Connection successful' message at the bottom right. The 'Test connection' button is also visible.

then create

next choose a new table

give table name ouput

Microsoft Azure | Data Factory > Azuread18

Factory Resources

Pipelines: 0

Change Data Capture (preview): 0

Datasets: 1

Data flows: 1

bikedata_DF

Power Query: 0

input

output

Step profit

Updating the columns: Country, Customer, IS_Segment, Category, Color, SalesDate

Bikesdata

Filtering rows using expressions on columns: Business Segment

selectedcolumns

Renaming Bikedata to selectedcolumns with columns: Region, Country, Customer, Category, Model, SalesDate

targetdata

Columns: 10 total

Sink Settings Errors Mapping Optimize Inspect Data preview

Output stream name * targetdata Learn more

Description Add sink dataset

Incoming stream * selectedcolumns

Sink type * Dataset

Dataset * Select... + New

Options Allow schema drift Validate schema

Set properties

Name ouputdata

Linked service * asf2asqconnection_ls

Select from existing table New table

Table name Select... Enter manually

Import schema From connection/store None

Advanced

OK Back Cancel

Microsoft Azure | Data Factory > Azuread18

Factory Resources

Pipelines: 0

Change Data Capture (preview): 0

Datasets: 1

Data flows: 1

bikedata_DF

Power Query: 0

input

output

Step profit

Updating the columns: Country, Customer, IS_Segment, Category, Color, SalesDate

Bikesdata

Filtering rows using expressions on columns: Business Segment

selectedcolumns

Renaming Bikedata to selectedcolumns with columns: Region, Country, Customer, Category, Model, SalesDate

targetdata

Columns: 10 total

Sink Settings Errors Mapping Optimize Inspect Data preview

Output stream name * targetdata Learn more

Description Add sink dataset

Incoming stream * selectedcolumns

Sink type * Dataset

Dataset * Select... + New

Options Allow schema drift Validate schema

Set properties

Name ouputdata

Linked service * asf2asqconnection_ls

Select from existing table New table

Schema and table name Schema name , Table name

Advanced

OK Back Cancel

then click on open and also give the table name.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists Pipelines, Change Data Capture (preview), Datasets, and Data flows. Under 'Data flows', there is one entry: 'bikedata_DF'. The main workspace displays a data flow pipeline with the following steps:

- An 'input' dataset (labeled 'Bikesdata') is connected to a 'stepprofit' component.
- 'stepprofit' connects to a 'Filtering rows using expressions on columns' component.
- This is followed by a 'selectedcolumns' component.
- Finally, the data flows into a 'targetdata' dataset (labeled 'targetdata').

The 'Properties' pane on the right shows the following details for the 'bikedata_DF' data flow:

- Name:** bikedata_DF
- Description:** Export data to output
- Sink type:** Dataset (selected)
- Dataset:** output
- Options:** Allow schema drift (checked), Validate schema (unchecked)

In the second screenshot, the 'output' dataset properties are shown. The 'Connection' tab is selected, displaying:

- Linked service:** ast2asq/connection_ls
- Table:** Loading...

A yellow box highlights the 'Test connection' button. The 'Properties' pane shows:

- Name:** output
- Description:** (empty)
- Annotations:** + New

then

Microsoft Azure | Data Factory > Azureadf8

Search factory and documentation

Publish all Auto Save

Preview experience On

Factory Resources

Data Factory Validate all

input bikedata_DF output

Azure SQL Database

Datasets

input ouputdata output

Data flows

bikedata_DF Power Query

Properties

General Related (1)

Name * output

Description

Annotations + New

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (3), 'Data flows' (1), and 'Power Query' (0). The 'Datasets' section is expanded, showing 'input', 'ouputdata', and 'output'. The 'output' dataset is selected. In the main pane, there's a 'Connection' tab where 'Linked service' is set to 'asf2asqconnection_ls' and 'Table' is set to 'schema name: bikedata_TS'. A yellow box highlights the 'Enter manually' checkbox under the table settings. To the right, the 'Properties' panel shows 'Name' as 'output' and 'Description' as an empty box. Annotations are listed as '+ New'.

Edit

Microsoft Azure | Data Factory > Azureadf8

Search factory and documentation

Publish all Auto Save

Preview experience On

Factory Resources

Data Factory Validate all

input bikedata_DF output

Azure SQL Database

Datasets

input ouputdata output

Data flows

bikedata_DF Power Query

Properties

General Related (1)

Name * output

Description

Annotations + New

The screenshot shows the Microsoft Azure Data Factory interface, identical to the previous one but with a yellow box highlighting the 'Edit' button in the 'Test connection' row of the 'Connection' tab. The rest of the interface, including the dataset properties and schema settings, remains the same.

choose legacy

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (0), 'Change Data Capture (preview)' (0), 'Datasets' (3), 'Data flows' (1), and 'Power Query' (0). The 'output' dataset is selected. In the center, a pipeline named 'bikedata_DF' is shown with an 'input' dataset and an 'output' dataset. The 'output' dataset is connected to an 'Azure SQL Database' output. On the right, the 'Edit linked service' dialog is open for 'asf2asqconnection_ls'. The 'Connection' tab is selected, showing the 'Linked service' dropdown set to 'asf2asqconnection_ls', a 'Test connection' button, and a 'schema name' field containing 'bike_data_TB'. The 'Parameters' tab is also visible. The 'Description' and 'Version' sections are present on the right. The 'Connection string' section is highlighted with a yellow box, showing 'Legacy' selected under 'Account selection method'. Other fields include 'Fully qualified domain name' (gnani-sql.database.windows.net), 'Database name' (gnaneshwar-sql), 'Authentication type' (SQL authentication), and 'User name' (gnaneshwar). Buttons for 'Apply' and 'Cancel' are at the bottom.

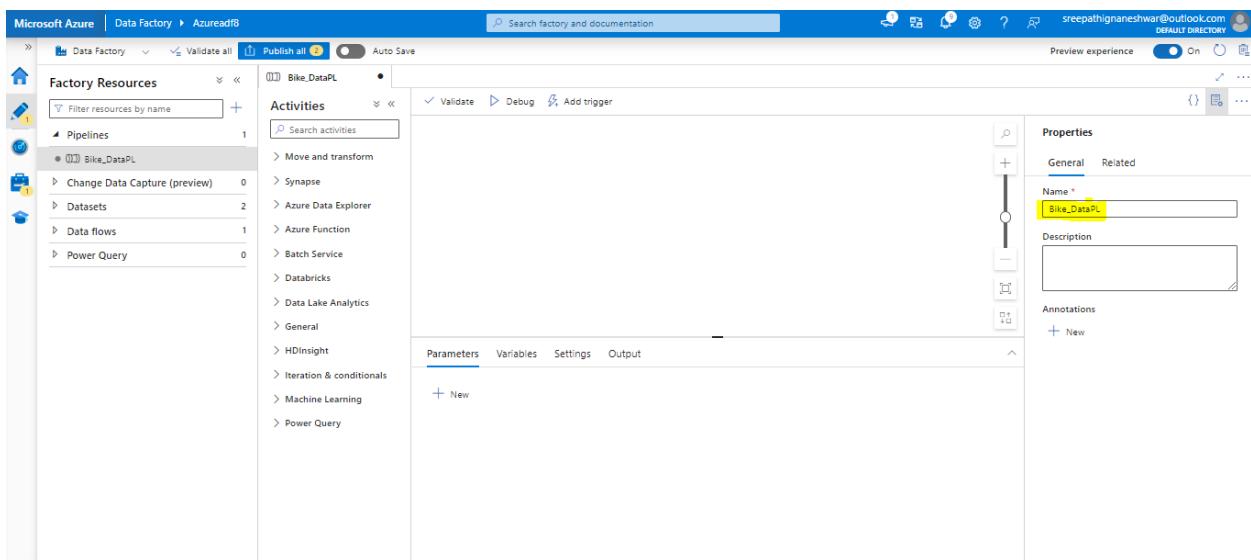
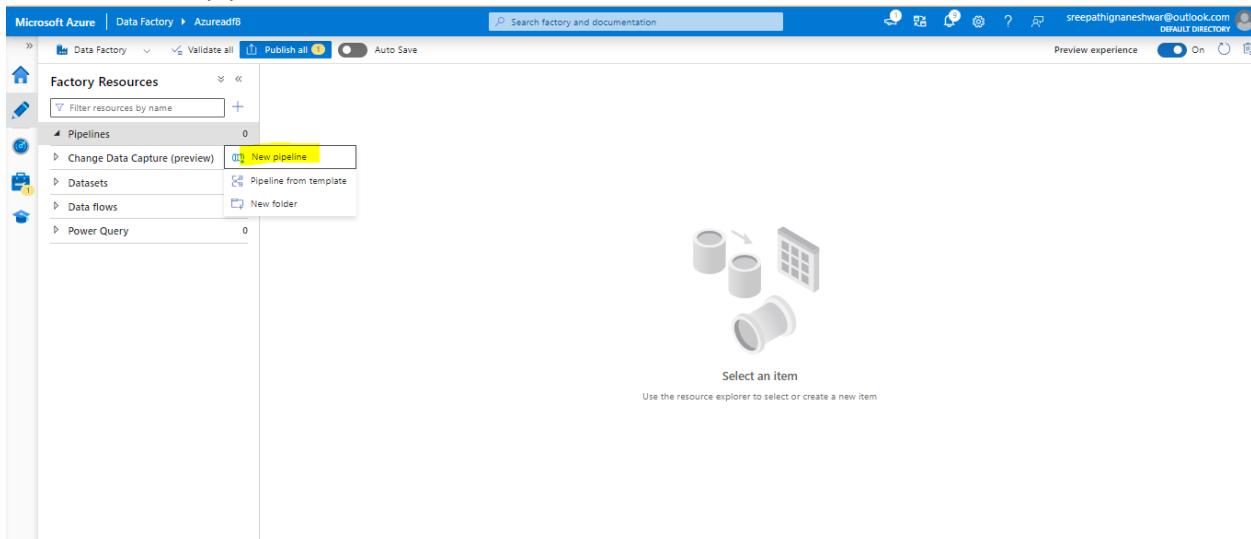
give password again

This screenshot shows the same 'Edit linked service' dialog as the previous one, but with a password entered. The 'Password' field now contains '*****'. The 'Apply' button is highlighted with a yellow box. The rest of the dialog and interface are identical to the first screenshot.

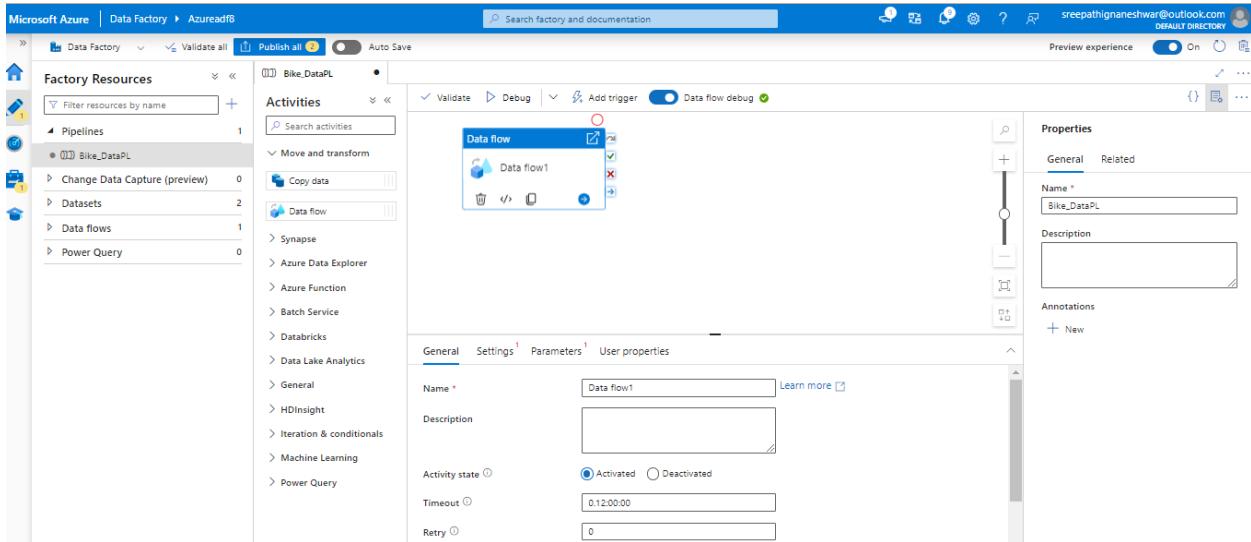
apply

now we can publish. output

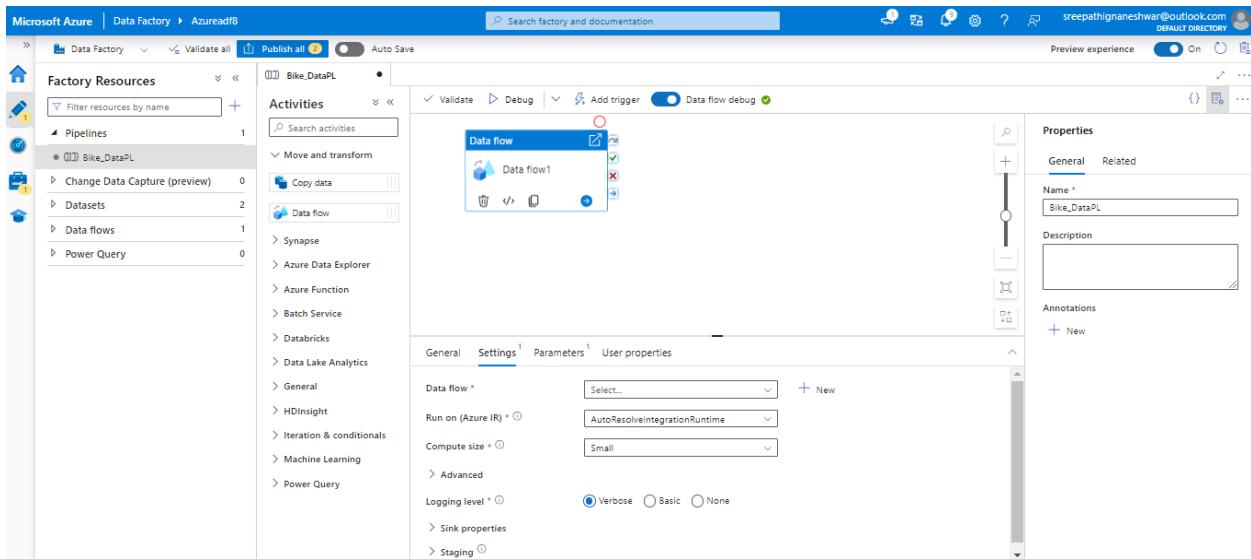
Now we will run pipeline.



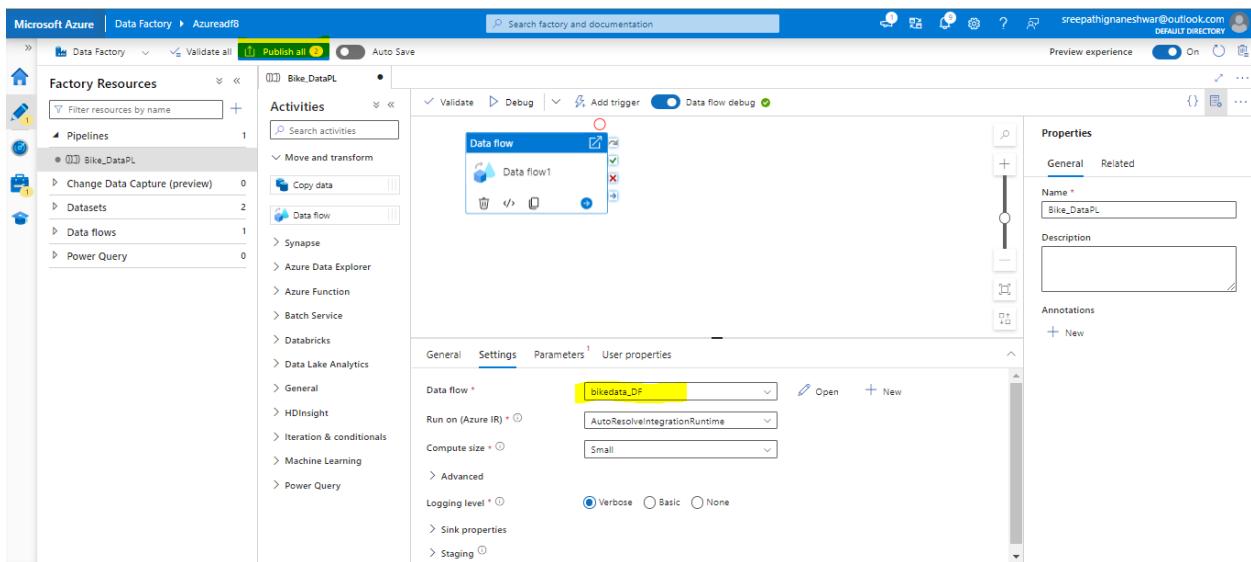
in pipeline we need to run one dataflow.that were already created.



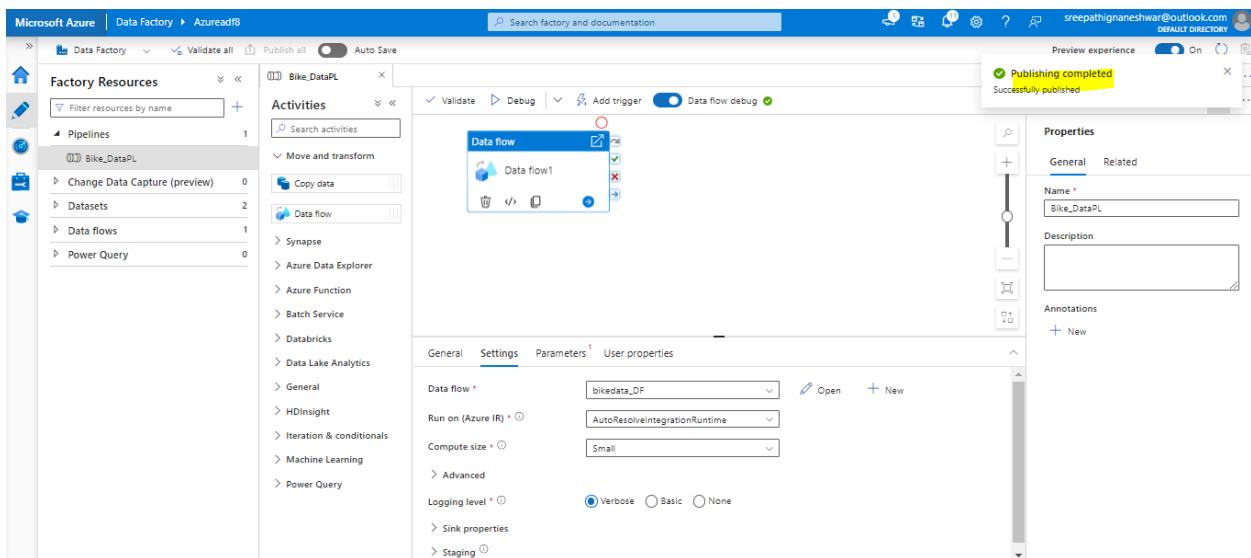
Drag the data flow to right side and click on settings.



select the dataflow and publish



published



finally created the 1st pipe line

triggered and pipeline is running.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (Bike_DataPL), 'Datasets' (2), 'Data flows' (1), and 'Power Query' (0). The main workspace displays the 'Bike_DataPL' pipeline details. The 'Activities' section shows a 'Data flow' activity named 'Data flow1'. A yellow box highlights the 'Add trigger' button. The 'Properties' panel on the right shows the pipeline name as 'Bike_DataPL' and its status as 'Running'. The pipeline run ID is 5f02d331-9267-4939-889d-be044e7d8a6f.

The screenshot shows the 'All pipeline runs' page for the 'Bike_DataPL' pipeline. The 'Activity runs' table displays one row for 'Data flow1', which has a status of 'Succeeded'. The table includes columns for Activity name, Activity status, Activity type, Run start, Duration, Integration runtime, User properties, and Action. The 'Pipeline run details' pane on the right provides information about the pipeline run, including the run by 'Manual trigger', start time '6/22/2024, 12:50:21 AM', end time '6/22/2024, 12:54:18 AM', status 'Succeeded', and pipeline run ID '5f02d331-9267-4939-889d-be044e7d8a6f'.

ranced successfully.

now data came in A.sql ,

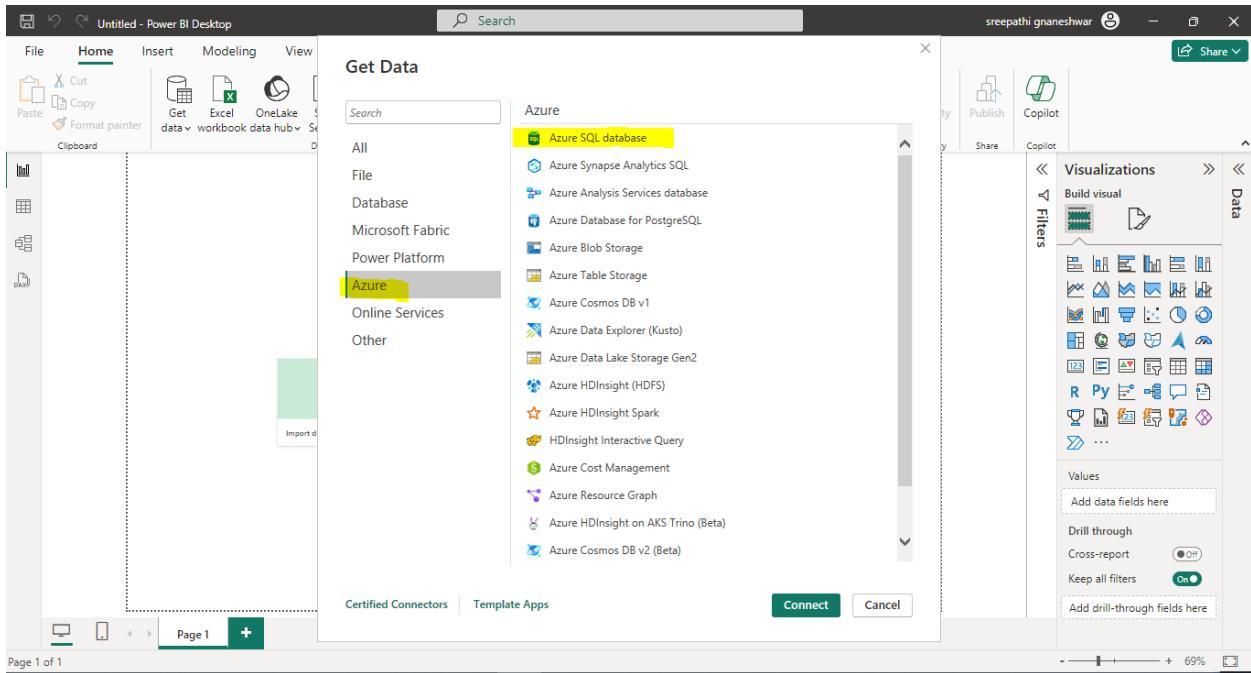
once done in ADF just refresh in A.sql

The screenshot shows the Microsoft Azure portal interface for a SQL database named "gnaneshwar-sql (gnani-sql/gnaneshwar-sql)". The left sidebar contains navigation links for Overview, Activity log, Tags, Diagnose and solve problems, Query editor (preview), Settings (Compute + storage, Connection strings, Properties, Locks), Data management (Replicas), and a link to "Sync to other databases". The main area displays a "Tables" section with a list of columns for "dbo.bike_data_TB": Region, Country, Customer, Category, Model, SalesDate, OrderQty, cost, sales, and profit. Below this, a "Query 2" tab is active, showing the SQL query: "SELECT TOP (1000) * FROM [dbo].[bike_data_TB]". The results pane shows a single row of data: Region (North America), Country (United States), Customer (Central Discount Store), and Category (Mountain Bikes).

This we can pull to Power bi

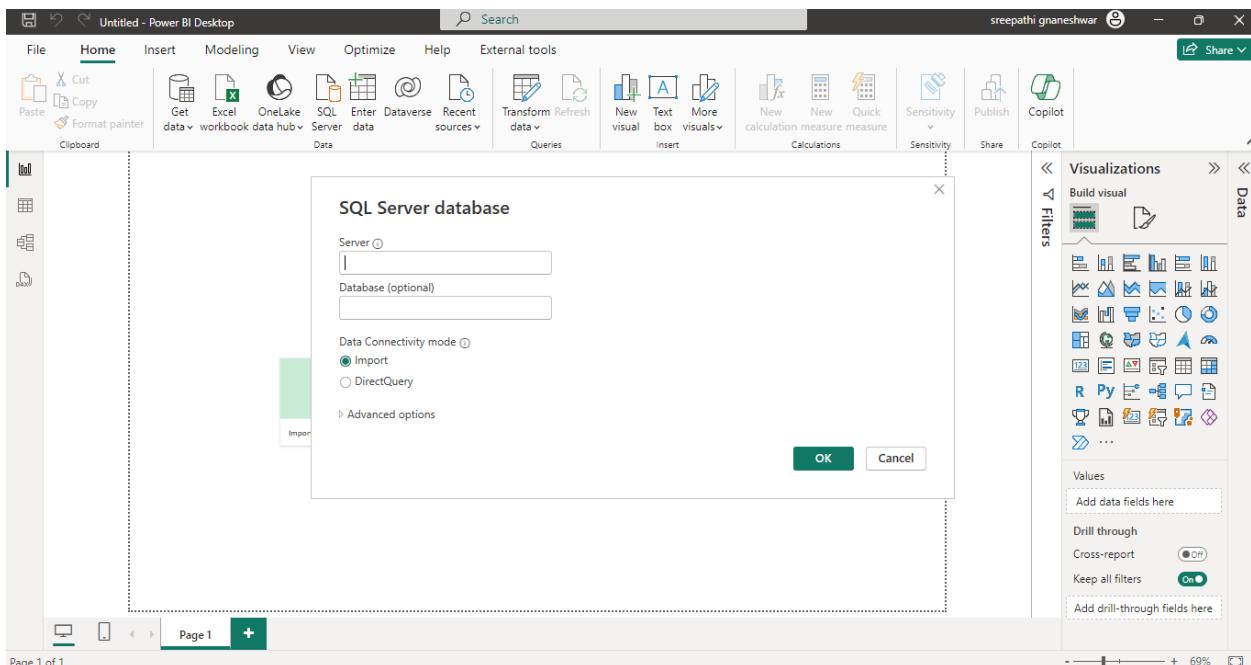
The screenshot shows the Microsoft Power BI Desktop application window titled "Untitled - Power BI Desktop". The ribbon menu includes File, Home, Insert, Modeling, View, Optimize, Help, and External tools. The Home tab is selected. The left sidebar shows a "Clipboard" section with icons for Paste, Cut, Copy, and Format painter. Below it is a "Common data sources" section with options like Excel workbook, Power BI semantic models, Dataflows, Dataverse, SQL Server, Analysis Services, Text/CSV, Web, OData feed, Blank query, and Power BI Template Apps. The main workspace is titled "Add data to your report" with the sub-instruction "Once loaded, your data will appear in the Data pane." It features four buttons: "Excel", "Import data from SQL Server", "Paste data into a blank table", and "Use sample data". A "Get data from another source" link is also present. The right side of the interface includes a "Visualizations" pane listing various chart and table icons, and a "Data" pane with sections for "Filters", "Values", "Drill through", "Cross-report", and "Keep all filters". The bottom of the screen shows a navigation bar with "Page 1" and a "+" icon.

more and select azure

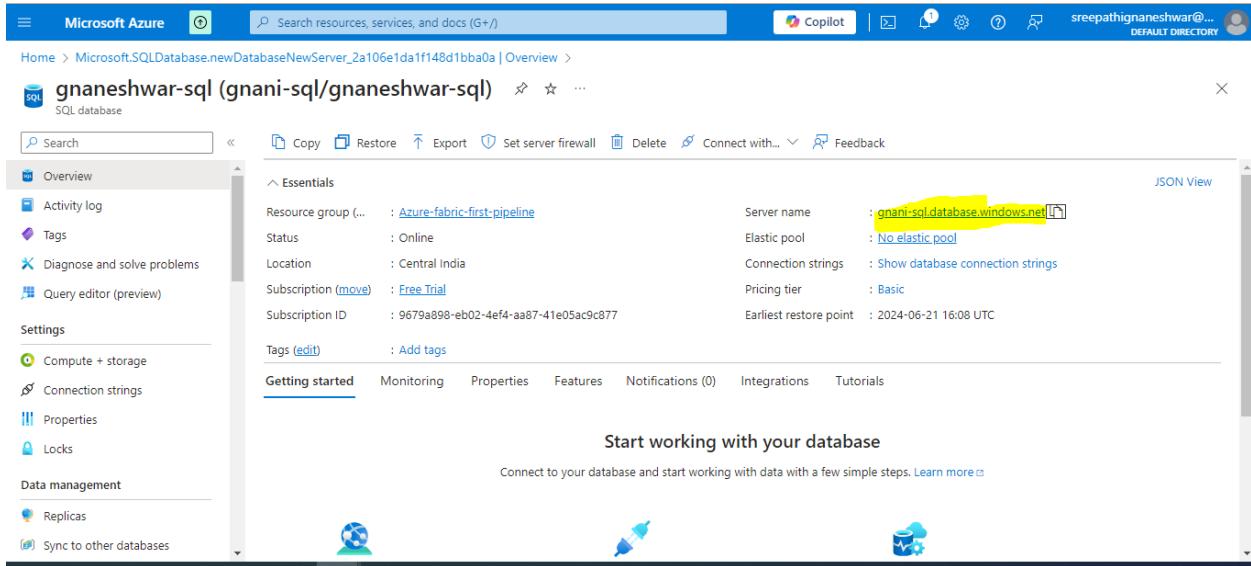


select azure sql database → connect

it will ask server details



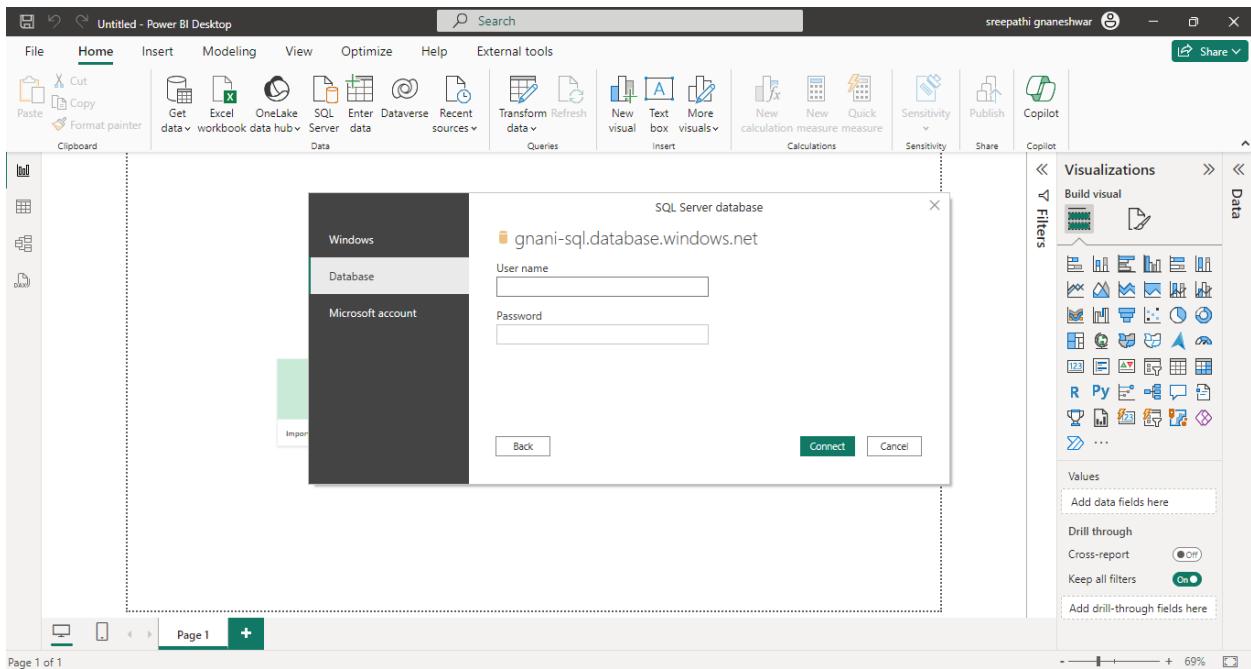
that will be in A.sql overview.



The screenshot shows the Microsoft Azure portal interface for a SQL database named "gnaneshwar-sql". The top navigation bar includes "Microsoft Azure", a search bar, and user information. The main content area displays the database's configuration details under the "Essentials" section. Key information includes:

- Resource group: Azure-fabric-first-pipeline
- Status: Online
- Location: Central India
- Subscription: Free Trial
- Subscription ID: 9679a898-eb02-4ef4-aa87-41e05ac9c877
- Tags: Add tags
- Server name: gnaneshwar-sql.database.windows.net (highlighted)
- Elastic pool: No elastic pool
- Connection strings: Show database connection strings
- Pricing tier: Basic
- Earliest restore point: 2024-06-21 16:08 UTC

The "Getting started" tab is selected, leading to a "Start working with your database" section with a "Learn more" link. On the left sidebar, there are sections for Overview, Activity log, Tags, Diagnose and solve problems, Query editor (preview), Settings (Compute + storage, Connection strings, Properties, Locks), and Data management (Replicas, Sync to other databases).



The screenshot shows the Microsoft Power BI Desktop application window titled "Untitled - Power BI Desktop". The ribbon menu is visible at the top. In the center, a "Get data" dialog box is open, prompting for a connection to a "Windows" database. The dialog fields include "User name" and "Password". To the right of the dialog, the "Visualizations" pane is open, displaying various chart and report options. The bottom of the screen shows the Power BI ribbon and some navigation controls.

database → give user name and password

gnaneshwar

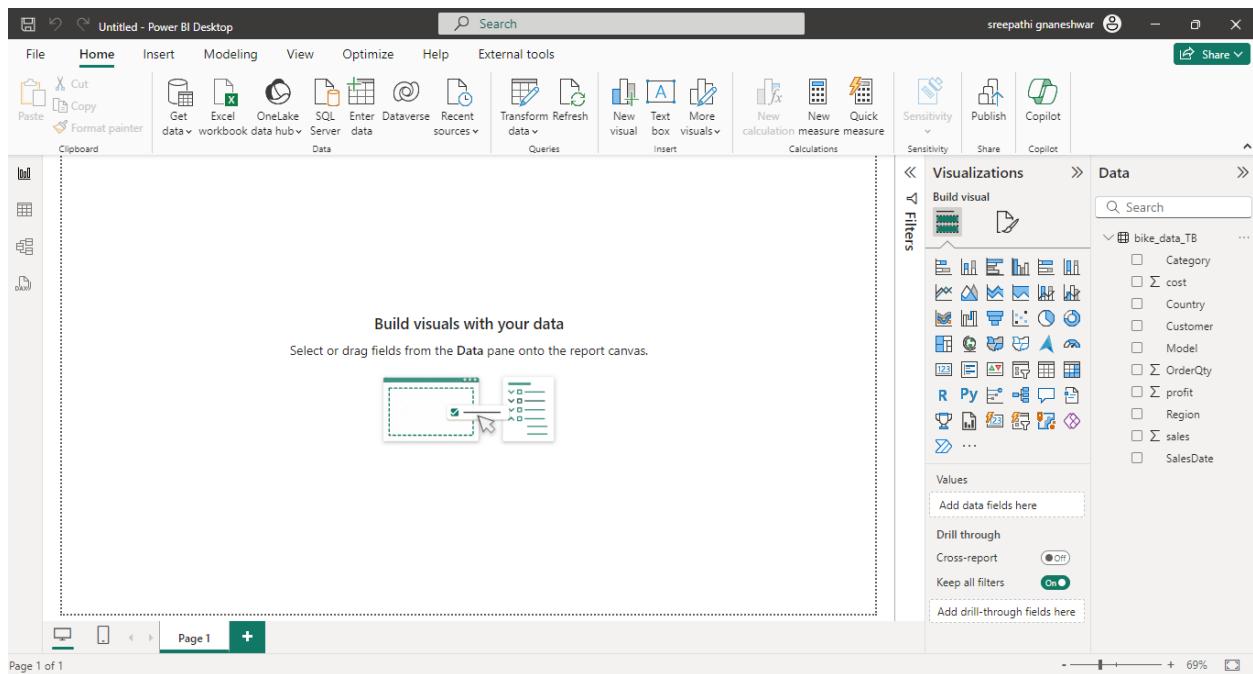
connected

The screenshot shows the Power BI Desktop interface with the 'Home' tab selected. The 'Navigator' pane on the left displays a single connection node: 'gnani-sql.database.windows.net [1]'. Below it, under 'gnaneshwar-sql', there is another node. A message 'No items selected for preview' is centered in the main area. The 'Visualizations' pane on the right is visible, showing various chart and report options. The status bar at the bottom indicates 'Page 1 of 1'.

Now we got cleaned data without using power query editor.

The screenshot shows the Power BI Desktop interface with the 'Home' tab selected. The 'Navigator' pane on the left now displays multiple tables: 'gnani-sql.database.windows.net [1]', 'gnaneshwar-sql [2]', 'sys.database_firewall_rules', and 'bike_data_TB'. The 'bike_data_TB' table is currently selected, showing its schema with columns: Region, Country, Customer, and Category. The main area displays the data from the 'bike_data_TB' table. The data includes rows such as North America, United States, Central Discount Store, Mountain Bikes; North America, United States, Scooters and Bikes Store, Road Bikes; etc. The 'Visualizations' pane on the right is visible, showing various chart and report options. The status bar at the bottom indicates 'Page 1 of 1'.

with out writing measures and without power query logics , we got clean data with AZURE.



Full process of ADF pipeline creation.