

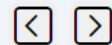
[Assignment 2: Azure SQL DB Creation](#) [Submit Assignment](#)

Create a new Azure SQL DB with the name 'Mission100+Yourname+DOB+DB' inside the resource group 'azurelib'.

Keep the Sample Db included while creating this Db.
You need to create a new DB server as well while creating this Database.

Remark: Ensure you are choosing the Basic tier while making the DB, to have low cost. Also allow azure services to be marked as enabled under the network firewall setting.

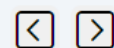
Assignment 2: Azure SQL DB Creation



[Assignment 3: Azure Data Factory Account Creation](#) [Submit Assignment](#)

Create your first ADF account where adf account name : mission100+yourname+yourdob and put it inside the resource group name azurelib.

Assignment 3: Azure Data Factory Account Creation



Pipeline 1:

Go to the ADF studio and create your first pipeline name: Copy_ProductTable_To_CSV.

In the newly created SQL DB there is one built in SalesLt.Product table.

Copy the Product table data to CSV file in 'landing/CSV' folder in ADLS using the ADF.

Pipeline 2:

Create another pipeline name: Copy_Customer_To_JSON In the newly created SQL DB there is one built in SalesLt.Customer table.

Copy the Customer table data to JSON file in 'landing/JSON' folder in ADLS using the ADF.

Hint: During the dataset creation step instead of choosing the file type CSV choose JSON

Pipeline 3:

Pipeline 3:

Create another pipeline name: Copy_Customer_JSON_To_Folder. In the last pipeline 1, you have created the Customer file in ADLS 'landing/CSV' folder. Now this time try to move this file to another ADLS folder 'landing/CSV2' using the ADF pipeline.

Hint: This time our source is ADLS 'landing/CSV' folder and destination is also of ADLS type but different folder 'landing/CSV2' (You can create one more dataset)

Tough Question:

Pipeline 4:

Create another pipeline name: Copy_Customer_To_CSV_Pipe In the newly created SQL DB there is one built in SalesLt.Customer table.

Copy the Customer table data to CSV file in 'landing/CSV_Pipe' folder in ADLS using the ADF. But ensure that the delimiter of this file should be (|) instead of (,)

Hint: After you create your dataset for CSV, open the dataset there you should see the option to change the delimiter.

Easy Questions:

1. Create a pipeline name 'Without_Foreach_Example' to copy the Customer & Customer address table data into ADLS without using foreach activity.
2. Create a pipeline name 'Foreach_Example' to copy the Customer & Customer address table data into ADLS using the one copy activity.

Tricky Questions:

3. Create a pipeline name 'Foreach_Example_2' which solves the following business use case.

Customer data is very important for our business. Hence whenever we have more than 100 records in the customer table,

we copy the customer data to another table customer_copy within the sql db.

However whenever we do this copy, we first truncate the table 'customer_copy' and then copy the data from 'customer' table

Hint : Use ADF to solve this problem.


1. Create a pipeline name 'Ingestion_Customer_SQLDB_ADLS' which will copy all the records from Customer table to ADLS account as CSV File.
2. Create a pipeline name 'Ingestion_Customer_SQLDB_ADLS_Folder' which will copy all the records from Address table to ADLS account inside the 'Address' folder as CSV File.
3. Create a Pipeline name 'Ingestion_Customer_JOIN_ADLS' which will copy the all the customer names along with their address into the csv. (Hint Join Customer+ Customer Address table)
4. Create a pipeline name 'Ingestion_Product_To_JSON' which will copy all the product records as JSON only if total number of records >10.

Tough Question

5. Create a pipeline name 'Ingestion_Product_Addres_To_JSON' which will copy all the product records as JSON only if total number of records >10. After that check total record count in address table if they are greater than 100 then copy the address table data as CSV in ADLS.



[Home](#)

 **Microsoft.DataFactory-20240127235951** | Overview

Deployment

[Delete](#) [Cancel](#) [Redeploy](#) [Download](#) [Refresh](#)


Overview

Inputs

Outputs

Template

✔ Your deployment is complete

 Deployment name : Microsoft.DataFactory-20240127235951

Subscription : [Free Trial](#)

Resource group : [Azurelib-Academy](#)

Start time : 1/28/2024, 12:07:04 AM

Correlation ID : 39d6453d-e72f-4088-aa6c-ac8b663a58c9

> Deployment details

< Next steps

[Go to resource](#)






















Give feedback

[Tell us about your experience with deployment](#)

Microsoft Azure

Data Factory

Mission-Gopi-2024-Azure-Data-Factory

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!


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


[Set up code](#)


Data factory


Mission-Gopi-2024-Azure-Data-Factory

[New](#)


 **Ingest**
Copy data at scale once or on a schedule.

 **Orchestrate**
Code-free data pipelines.

 **Transform data**
Transform your data using data flows.

 **Configure SSIS**
Manage & run your SSIS packages in the cloud.

Recent resources



























No items to show

Microsoft Azure

Data Factory

Mission-Gopi-2024-Azure-Data-Factory

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](#)

Preview experience

Factory Resources

Pipelines

0

Change Data Capture (preview)

0

Datasets


0

Data flows

0

Power Query

0



Microsoft Azure

Upgrade

Search resources, services, and docs (Ctrl+K)

Home > Subscriptions > Subscriptions > Free Trial | Resources >

mission100Gopi01012024adf

Data factory (V2)

Search

Delete

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Managed identities

Properties

Locks

Getting started

Quick start

Monitoring

Alerts

Metrics

Diagnostic settings

Logs

Automation

CU / PS

Essentials

Resource group [\(mcpus\)](#) : [AzureRB-Academy](#)

Status : Succeeded

Location : East US

Subscription [\(mcpus\)](#) : [Free Trial](#)

Subscription ID : b6db331f-8c4b-42ce-905a-9456c96a03c9

Type : Data factory (V2)

Getting started : [Quick start](#)

Azure Data Factory Studio

Launch studio

Quick Starts

Tutorials

Template Gallery

Training Modules

Monitoring

PipelineRuns

ActivityRuns

TriggerRuns

← ↻ 🔒 https://portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft Azure Upgrade Search resources, services, and

Home > SQL databases >

Create SQL Database

Microsoft

⚠ Changing Basic options may reset selections you have made. Review all options prior to creating the resource.

Server * ⓘ (new) mission100gopi01012024dbserver (East US) [Create new](#)

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.

Backup storage redundancy ⓘ ☐ Locally-redundant backup storage ☐ Zone-redundant backup storage ☒ Geo-redundant backup storage

⚠ Selected value for backup storage redundancy is Geo-redundant backup storage. Database backups will be geo-replicated which might impact your data residency requirements. [Learn more](#)

[Review + create](#) [Next : Networking >](#)

⚠ Changing Basic options may reset selections you have made. Review all options prior to creating the resource.

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

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

Basic (For less demanding workloads) 

[Compare service tiers](#)

DTUs [Compare DTU options](#)

5 (Basic)

Data max size (GB)




Cost summary

Basic (Basic)

Cost per DTU (in INR) 83.22

DTUs selected x 5

ESTIMATED COST / MONTH 416.11 INR

Want to use SQL elastic pool? 

☐ Yes ☒ No

Workload environment

☒ Development

☐ Production



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

[Home](#) > [SQL databases](#) > [Create SQL Database](#) >

Create SQL Database Server

Microsoft

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 *



mission100gopi01012024dbserver

.database.windows.net

Location ★

(US) East US

Authentication

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

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication [Learn more](#) or 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 *

azurelib

Password *

.....

Confirm password *

.....

OK

Create SQL Database

Microsoft

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

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'mission100gopi01012024dbserver' 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 *

Add current client IP address *

Connection policy

Configure how clients communicate with your SQL database server. [Learn more](#)

Connection policy

☒ Default - Uses Redirect policy for all client connections originating inside of Azure (except Private Endpoint connections) and Proxy for all client connections originating outside Azure

☐ Proxy - All connections are proxied via the Azure SQL Database gateways

☐ Redirect - Clients establish connections directly to the node hosting the database

[Review + create](#) [< Previous](#) [Next : Security >](#)

Cost summary

Basic (Basic)
Cost per DTU (in INR) **76.93**
DTUs selected **x 5**

ESTIMATED COST / MONTH **384.63 INR**

Create SQL Database

Microsoft

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

Customize additional configuration parameters including collation & sample data.

Data source

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

Use existing data *

AdventureWorksLT will be created as the sample database.

Database collation

Database collation defines the rules that sort and compare data, and cannot be changed after database creation. The default database collation is SQL_Latin1_General_CP1_CI_AS. [Learn more](#)

Collation

SQL_Latin1_General_CP1_CI_AS

Cost summary

Basic (Basic)
Cost per DTU (in INR) **76.93**
DTUs selected **x 5**

ESTIMATED COST / MONTH **384.63 INR**

←↻🔒https://portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft AzureUpgrade🔍Search resources, services, and docs (G+)

Home > SQL databases >

Create SQL Database...

Microsoft

BasicsNetworkingSecurityAdditional settingsTagsReview + create

Microsoft Defender for SQL

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

Get started with a 30 day free trial period, and then 1178.0175 INR/server/month.

Enable Microsoft Defender for SQL * ⓘ

☐ Start free trial☒ Not now

Ledger

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

Ledger

Not configured

[Configure ledger](#)

Server identity

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

Server identity

Not enabled

[Configure identities](#)

Transparent data encryption key management

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

Server level key ⓘ


Service-managed key selected

[Configure transparent data encryption](#)

Review + create

< Previous

Next : Additional settings >



Cost summary

Basic (Basic)

Cost per DTU (in INR)

76.93

DTUs selected

x 5

ESTIMATED COST / MONTH

384.63 INR

←↻🔒https://portal.azure.com/#create/Microsoft.SQLDatabase

Microsoft AzureUpgrade🔍Search resources, services, and docs (G+)

Home > SQL databases >

Create SQL Database...

Microsoft

BasicsNetworkingSecurityAdditional settingsTagsReview + create

Customize additional configuration parameters including collation & sample data.

Data source

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

Use existing data *

None

Backup

Sample


AdventureWorksLT will be created as the sample database.

Database collation

Database collation defines the rules that sort and compare data, and cannot be changed after database creation. The default database collation is SQL_Latin1_General_CP1_CI_AS. [Learn more](#)

Collation ⓘ

SQL_Latin1_General_CP1_CI_AS



Cost summary

Basic (Basic)

Cost per DTU (in INR)

76.93

DTUs selected

x 5

ESTIMATED COST / MONTH

384.63 INR

←↻🔒https://portal.azure.com/#create/Microsoft.SQLDatabase

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

Home > SQL databases >

Create SQL Database...

Microsoft

BasicsNetworkingSecurityAdditional settingsTagsReview + create

Product details

SQL database
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Estimated cost per month
384.63 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

Subscription	Free Trial
Resource group	Azurelib-Academy
Region	East US
Database name	mission100Gopi01012024db
Server	(new) mission100gopi01012024dbserver
Authentication method	SQL authentication
Server admin login	azurelib
Compute + storage	Basic: 2 GB storage
Backup storage redundancy	Geo-redundant backup storage


Networking

Allow Azure services and resources to access this server	Yes
Add current client IP address	No

Create

< Previous

[Download a template for automation](#)



Cost summary

Basic (Basic)	
Cost per DTU (in INR)	76.93
DTUs selected	x 5
ESTIMATED COST / MONTH	384.63 INR

←↻🔒https://portal.azure.com/#view/HubExtension/DeploymentDetailsId/~/overview/id/%2Fsubscriptions%2Fb6b331f-8c4b-42ce-905a-9456c96a03c9%2FresourceGroups%2FAzurelib-Academy%2Fproviders%2FMicrosoft...🔍 Search resources, services, and docs (G+)

Microsoft Azure Upgrade

Home >

Microsoft.SQLDatabase.newDatabaseNewServer_fcd2741f0d3949b0bc0a7 | Overview

Deployment

Search

DeleteCancelRedeployDownloadRefresh

Overview

Inputs

Outputs

Template

Deployment details

Resource	Type	Status	Operation details
...			
...			
...			
...			
...			

Give feedback

Tell us about your experience with deployment

*** Deployment is in progress...

Deployment to resource group 'Azurelib-Academy' is in progress.

Microsoft Defender for Cloud

Secure your apps and infrastructure

[Go to Microsoft Defender for Cloud](#)

Free Microsoft tutorials

[Start learning today](#)

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

[Find an Azure expert](#)

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

Home > Microsoft.SQLDatabase.newDatabaseNewServer_fcd2741fd3949b0bc0a7 | Overview

Deployment

Search « Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name : Microsoft.SQLDatabase.newDatabaseNewServer_fcd2741fd3949b0bc0a7 Start time : 1/28/2024 7:59:42 PM
Subscription : Free Trial Correlation ID : 6ca8aedf-162e-458f-9268-73b28598f2a5
Resource group : Azurelib-Academy

> Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

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

Home > Microsoft.SQLDatabase.newDatabaseNewServer_fcd2741fd3949b0bc0a7 | Overview >

mission100Gopi01012024db (mission100gopi01012024dbserver/mission100Gopi01012024db)

SQL database

Search « Copy Restore Export Set server firewall Delete Connect with... Feedback

Overview

Activity log

Tags

Diagnose and solve problems

Query editor (preview)

Settings

Compute + storage

Connection strings

Properties

Locks

Data management

Replicas

Sync to other databases

Integrations

Azure Synapse Link

Stream analytics (preview)

Add Azure AI Search

Power Platform

Power BI

Power Apps

Power Automate

Essentials

Resource group (move) : Azurelib-Academy

Status : Online

Location : East US

Subscription (move) : Free Trial

Subscription ID : b6db331f-8c4b-42ce-905a-9456c96a03c9

Server name : mission100gopi01012024dbserver.database.windows.net

Elastic pool : No elastic pool

Connection strings : Show database connection strings

Pricing tier : Basic

Earliest restore point : No restore point available

Tags (edit) : Add tags

Getting started Monitoring Properties Features Notifications (0) Integrations Tutorials

Start working with your database

Connect to your database and start working with data with a few simple steps. Learn more

Configure access

Configure network access to your SQL server. Learn more

Configure

Connect to application

Use connection strings to connect to your SQL database from your applications and favorite tools.

See connection strings

Start developing

Work in your database by using tools to add, modify and query data. Compare tools

Open Azure Data Studio

Open in Visual Studio

Open in Visual Studio Code

ver_fcd2741fd3949b0bc0a7 | Overview > mission100Gopi01012024db (mission100gopi01012024dbserver/mission100Gopi01012024db)

(mission100gopi01012024dbserver/mission100Gopi01012024db) | Query editor (preview)

New Query Open query Feedback Getting started

Query editor (preview) is a tool to run SQL queries against Azure SQL Database in the Azure portal. It is designed for lightweight querying and object exploration in your database. For more information and troubleshooting. Learn more

SQL

Welcome to SQL Database Query Editor

SQL server authentication

Login *

azurelib

Password *

Microsoft Entra authentication

Continue as gopinathma09@outlook.c...

OR

Cannot open server

'mission100gopi01012024dbserver' requested by the login. Client with IP address '217.67.229.50' is not allowed to access the server. To enable access, use the Azure Management Portal or run sp_set_firewall_rule on the master database to create a firewall rule for this IP address or address range. It may take up to five minutes for this change to take effect.

Allowlist IP 217.67.229.50 on server mission100gopi01012024dbserver

OK

Successfully updated server firewall rules

Successfully updated firewall rules for server: mission100gopi01012024dbserver

mission100Gopi01012024db (mission100gopi01012024dbserver/mission100Gopi01012024db) | Query editor (preview)

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

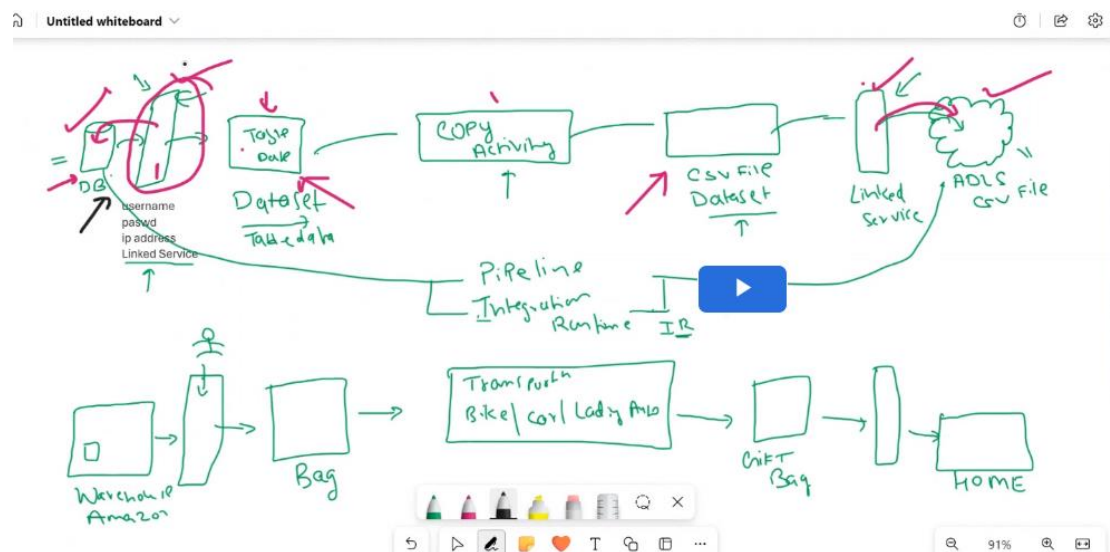
Query 1

```
select * from [SalesLT].[Customer]
```

Results

CustomerID	NameStyle	Title	FirstName	MiddleName	LastName	Suffix
1	False	Mr.	Orlando	N.	Gee	
2	False	Mr.	Keith		Harris	
3	False	Mrs.	Donna	F.	Carreras	
4	False	Ms.	Janet	M.	Gates	
5	False	Mr.	Lucy		Harrington	
6	False	Mrs.	Rosmarie	J.	Carroll	
7	False	Mr.	Dominic	P.	Gash	
10	False	Mrs.	Kathleen	M.	Garza	

Assignment 4 : ADF Pipeline 1:



Linked Service 1: Connecting to Azure SQL Database:

Microsoft Azure

Data Factory

mission100Gop01012024adf

Search factory and documentation

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!

Validate all

Publish all

General

Factory settings

Connections

Linked services

Integration runtimes

Microsoft Purview

Source control

Git configuration

ARM template

Author

Designer

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

+ New

Filter by name

Annotations : Any

New linked service

Data store

Compute

sql d

All

Azure

Database

File

Generic protocol

NoSQL

SQL

Azure SQL Database


SQL

Azure SQL Database Managed Instance

gopinathma09@outlook.com

DEFAULT DIRECTORY

New linked service

 Azure SQL Database [Learn more](#)

Name *

Description

Connect via integration runtime * ⓘ

AutoResolveIntegrationRuntime

Connection string

Azure Key Vault

Account selection method ⓘ

☒ From Azure subscription ☐ Enter manually

Azure subscription

Free Trial (b6db331f-8c4b-42ce-905a-9456c96a03c9)

Server name *

mission100gopi01012024dbserver

Database name *

mission100Gopi01012024db

Authentication type *

SQL authentication

User name *

azurelib

Password

Azure Key Vault

Password *


.....

Always encrypted ⓘ ☐

Additional connection properties


Create

Back

 Test connection

Cancel

DETAILS DIRECTORY

 **Successfully created**

Successfully created SQL_DB_Linked_service1 (Linked service).

← ↻ <https://adf.azure.com/en/management/datalinkedservices?factory=%2Fsubscriptions%2F6db331f-8c4b-42ce-905a-9456c96a03c9%2FresourceGroups%2FAzurelib->

Microsoft Azure | Data Factory | mission100Gopi01012024adf | Search factory and documentation

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

Home | Factory settings | Connections | **Linked services** | Integration runtimes | Microsoft Purview | Source control | Git configuration | ARM template | Author | Triggers | Global parameters | Data flow libraries | Security

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

+ New

Filter by name Annotations: Any

Showing 1 - 1 of 1 items

Name ↑↓	Type ↑↓	Related ↑↓
SQL_DB_Linked_service1	Azure SQL Database	0

Linked Service 2: Connecting to Azure Data Lake Storage 2:

adf.azure.com/en/management/datalinkedservices?factory=%2Fsubscriptions%2F6db331f-8c4b-42ce-905a-9456c96a03c9%2FresourceGroups%2FAzurelib-Academy%2Fproviders%2FMicrosoft.DataFactory%2Factories%...

factory | mission100Gopi01012024adf | Search factory and documentation

need 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!

Validate all | Publish all

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

+ New

Filter by name Annotations: Any

Showing 1 - 1 of 1 items


Name ↑↓	Type ↑↓	Related ↑↓
SQL_DB_Linked_service1	Azure SQL Database	0


New linked service


Data store | Compute


data


All | Azure | Database | File | Generic protocol | NoSQL | Services and apps



Azure Data Explorer (Kusto)



Azure Data Lake Storage Gen1



Azure Data Lake Storage Gen2



Azure Database for MariaDB



Azure Database for MySQL


Azure Database for PostgreSQL


Azure Databricks Delta Lake


Azure SQL Database




Azure SQL Database Managed Instance


Teradata

Continue Cancel

Create a Dataset:
ADF--> Author -->

New linked service

 Azure Data Lake Storage Gen2 [Learn more](#) 

Name *

Description

Connect via integration runtime * ^①

AutoResolveIntegrationRuntime

Authentication type

Account key

Account selection method ^①


☒ From Azure subscription ☐ Enter manually

Azure subscription ^①

Select all

Storage account name *

gopi01012024adls



Test connection ^①

☒ To linked service ☐ To file path

Annotations


+ New


> Parameters

> Advanced ^①

Create

Back

 Connection successful

 Test connection

Cancel

Microsoft Azure

Data Factory

mission100Gep01012024adff

Search factory and documentation

gopinuthmali9@outlook.com

DEFAULT DIRECTORY

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!

Validate all

Publish all

Preview experience

Off

Home

General

Factory settings

Connections

Linked services

Integration runtimes

Microsoft Purview

Source control

Git configuration

ARM template

Author

Triggers

Global parameters

Data flow libraries

Security

Credentials

Customer managed key

Outbound rules

Managed private endpoints

Linked services

Linked service defines the connection information to a data store or compute. [Learn more](#)

+ New

filter by name

Annotations: Any

Showing 1 - 2 of 2 items

Name	Type	Related	Annotations
ADLS_Azure_DataLakeStorage_Linked_service	Azure Data Lake Storage Gen2	0	
SQL_DB_Linked_service1	Azure SQL Database	0	

Set properties

Name

Linked service *



Table name



☐ Enter manually

Import schema

☒ From connection/store ☐ None

OK

Back

Cancel

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Data Factory | Validate all | Publish all

Factory Resources

Filter resources by name

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

SQL_Product_Table_Dataset

Azure SQL Database
SQL_Product_Table_Dataset

Connection Schema Parameters

Linked service * SQL_DB_Linked_service1 Test connection Edit + New Learn more

Table SalesLT.Product Refresh Preview data

☐ Enter manually

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Factory Resources

Filter resources by name

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

SQL_Product_Table_Dataset

Azure SQL Database
SQL_Product_Table_Dataset

Connection Schema

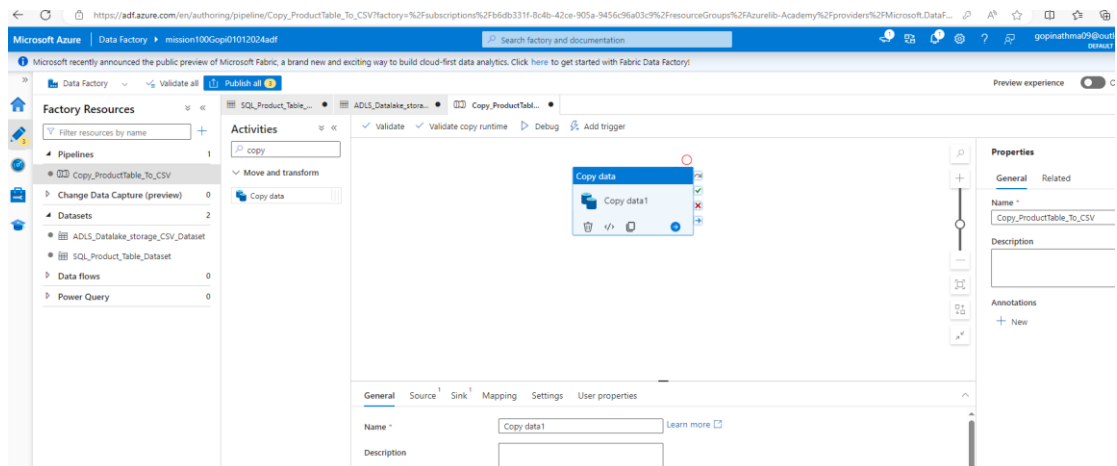
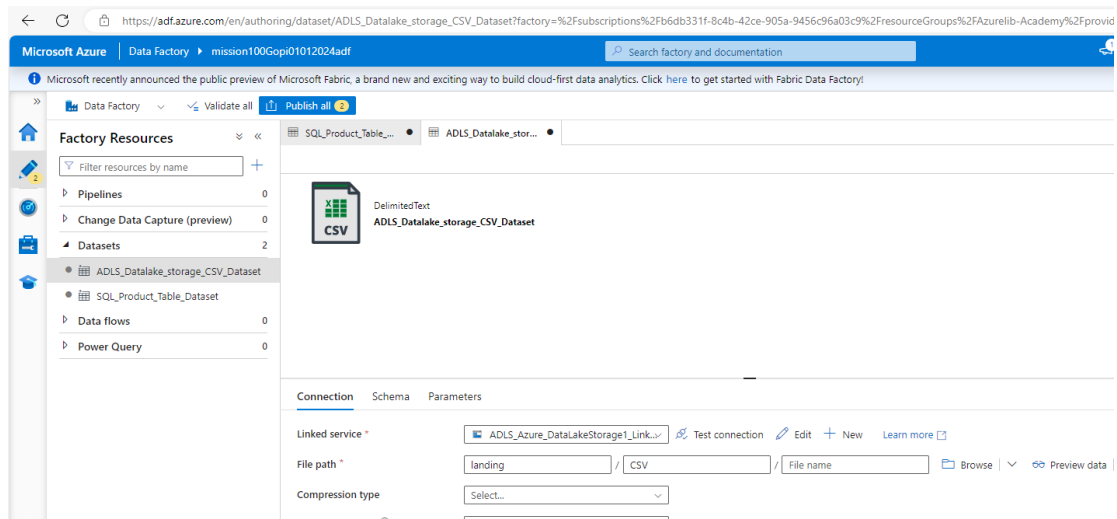
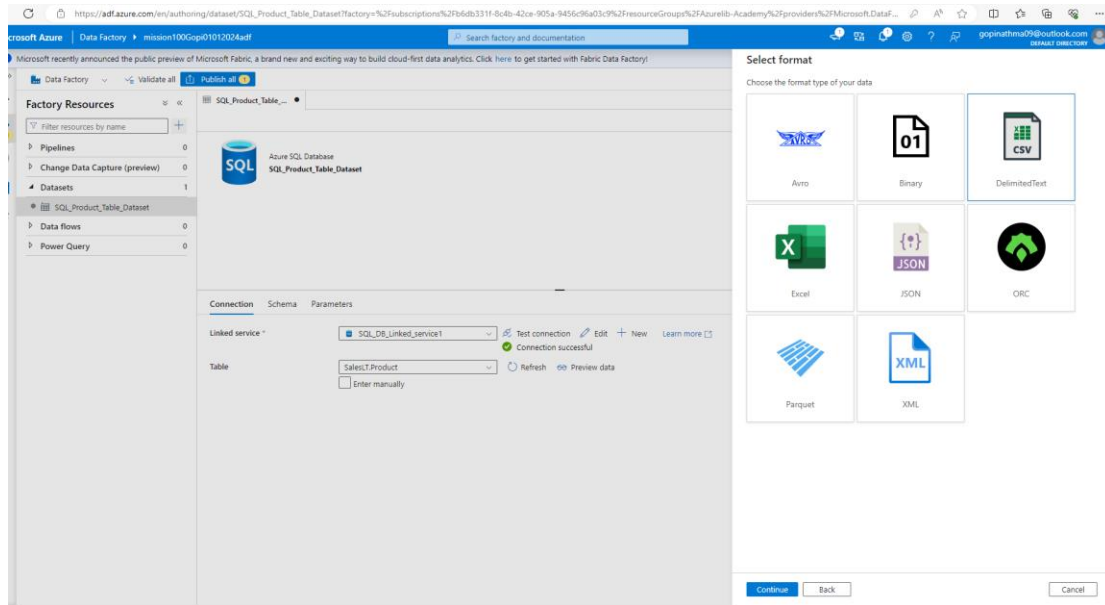
Linked service * SQL_DB_Linked_service1

Table SalesLT.Product

Preview data

Linked service: SQL_DB_Linked_service1
Object: SalesLT.Product

	ProductID	Name	ProductNumber	Color	StandardCost	ListPrice	Size	Weight	ProductCat
1	680	HL Road Frame - Black, 58	FR-R92B-58	Black	1059.3100	1431.5000	58	1016.04	18
2	706	HL Road Frame - Red, 58	FR-R92R-58	Red	1059.3100	1431.5000	58	1016.04	18
3	707	Sport-100 Helmet, Red	HL-U509-R	Red	13.0863	34.9900			35
4	708	Sport-100 Helmet, Black	HL-U509	Black	13.0863	34.9900			35
		Mountain							



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Data Factory Validate all Publish all

Factory Resources

Filter resources by name

- Pipelines: 1
 - Copy_ProductTable_To_CSV
- Change Data Capture (preview): 0
- Datasets: 2
 - ADLS_Datalake_storage_CSV_Dataset
 - SQL_Product_Table_Dataset
- Data flows: 0
- Power Query: 0

Activities

Validate Debug Add trigger

copy

No results

Copy data

Copy Product Table data to ADLS CSV

Parameters Variables Settings **Output**

Pipeline run ID: 88dd9a43-5d75-442f-b440-5d1734b88c14 **Pipeline status:** Succeeded [View debug run consumption](#)

All status


Showing 1 - 1 of 1 items


Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User
Copy Product Table data to A...	Succeeded	Copy data	1/28/2024, 10:07:29 PM	13s	AutoResolveIntegration	

Details Refresh

[Learn more on copy performance details from here.](#)

Activity run id: 9d2a47ec-6904-4881-a79a-643ecb2232b9

 **Azure SQL Database**
Region: East US

Succeeded →  **Azure Data Lake Storage Gen2**

Data read:	718.773 KB	Data written:	1.358 MB
Rows read:	295	Files written:	1
Peak connections:	1	Rows written:	295
		Peak connections:	1

Copy duration: 00:00:10
Throughput: 359.387 KB/s


▼ Azure SQL Database → Azure Data Lake Storage Gen2

Start time: 1/28/2024, 10:07:29 PM
Used DIUs: 4
Used parallel copies: 1
▼ Duration: 00:00:10

Details	Working duration	Total duration
Queue		00:00:06
Transfer	<div>Time to first byte: 00:00:00 Reading from source: 00:00:00 Writing to sink: 00:00:00</div>	00:00:02

Data consistency verification: Not verified

Publish all

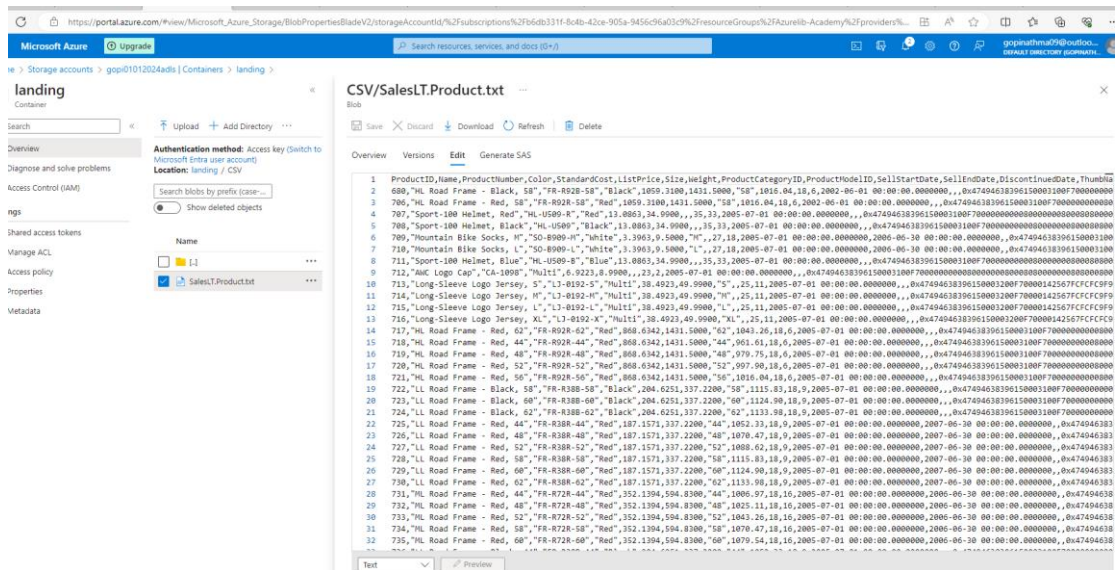
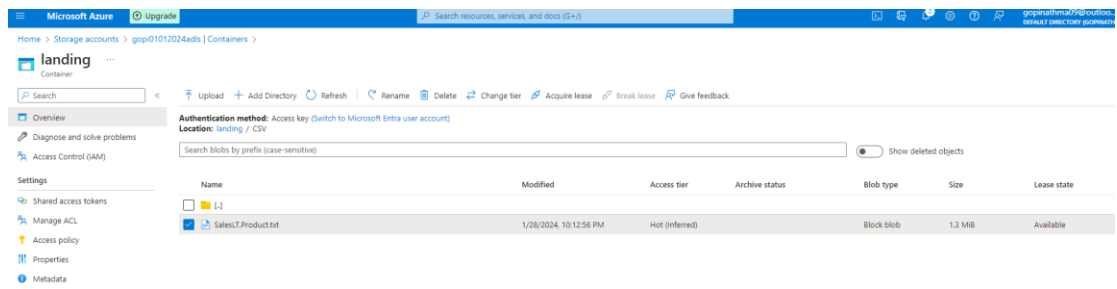
You are about to publish all pending changes to the live environment. [Learn more](#) 

Pending changes (3)

NAME	CHANGE	EXISTING
<div> <div></div> <div>Pipelines</div> </div>		
<div> <div></div> <div>Copy_ProductTable_To_CSV (New)</div> </div>		-
<div> <div></div> <div>Datasets</div> </div>		
<div> <div></div> <div>SQL_Product_Table_Dataset (New)</div> </div>		-
<div> <div></div> <div>ADLS_Datalake_storage_C... (New)</div> </div>		-

Publish

Cancel



Assignment 4

Pipeline 2:

Create another pipeline name: Copy_Customer_To_JSON In the newly created SQL DB there is one built in SalesLT.Customer table.

Copy the Customer table data to JSON file in 'landing/JSON' folder in ADLS using the ADF.

Hint: During the dataset creation step instead of choosing the file type CSV choose JSON

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Data Factory | Validate all | Publish all

Factory Resources

- Pipelines: 2
 - Copy_ProductTable_To_CSV
 - Copy_Customer_To_JSON
- Change Data Capture (preview): 0
- Datasets: 4
 - ADLS_Datalake_storage_CSV_Dataset
 - ADLS_JSON_Dataset
 - SQL_Customer_Table_Dataset
 - SQL_Product_Table_Dataset
- Data flows: 0
- Power Query: 0

Activities

- copy
- Move and transform
 - Copy data

Copy data

Copy Customer Table Data to JSON...

General | Source | Sink | Mapping | Settings | User properties

Name: Copy Customer Table Data to JSON file [Learn more](#)

Description:

Activity state: ☒ Activated ☐ Deactivated

Timeout: 0:12:00:00


Retry: 0

Retry interval (sec): 30


Details [Refresh](#)

[Learn more on copy performance details from here.](#)

Activity run id: f261f8b0-eefc-4c11-8539-40c2831c1c55

 Azure SQL Database
Region: East US

Succeeded

 Azure Data Lake Storage Gen2

Data read: 278.379 KB
Rows read: 847
Peak connections: 1

Data written: 377.467 KB
Files written: 1
Rows written: 847
Peak connections: 1

Copy duration: 00:00:10
Throughput: 139.189 KB/s

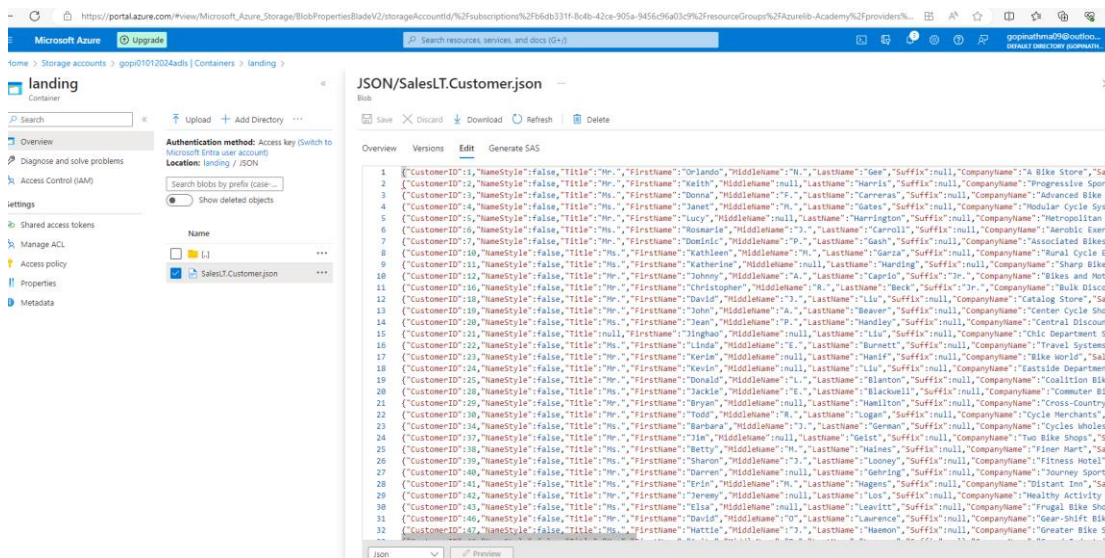
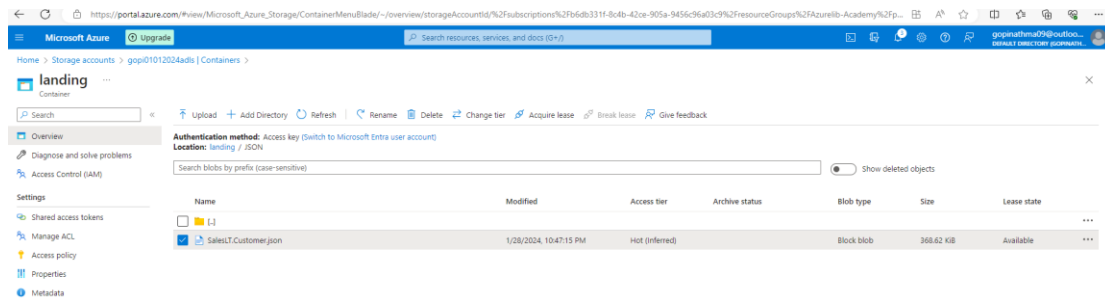
▼ Azure SQL Database → Azure Data Lake Storage Gen2

Start time: 1/28/2024, 10:47:05 PM
Used DILUs: 4
Used parallel copies: 1

▼ Duration: 00:00:10

Details	Working duration	Total duration
Queue		00:00:06
Transfer		00:00:02
Time to first byte	00:00:00	
Reading from source	00:00:00	
Writing to sink	00:00:00	

Data consistency verification: Not verified



Pipeline 3:

Create another pipeline name: **Copy_Customer_JSON_To_Folder**. In the last pipeline 1, you have created the Customer file in **ADLS 'landing/CSV'** folder. Now this time try to move this file to another ADLS folder 'landing/CSV2' using the ADF pipeline.

Hint: This time our source is **ADLS 'landing/CSV'** folder and destination is also of ADLS type but different folder '**landing/CSV2'** (You can create one more dataset)

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Factory Resources

- Pipelines
 - Copy_Customer_JSON_To_Folder
 - Copy_Customer_Table_To_CSV
 - Copy_Customer_To_JSON
 - Copy_ProductTable_To_CSV
 - Copy_Customer_To_CSV_Pipe
- Change Data Capture (preview)
- Datasets
 - ADLS_Customer_CSV_Dataset
 - ADLS_Customer_CSV_Pipe
 - ADLS_Datalake_storage_CSV_Dataset
 - ADLS_JSON_Dataset
 - SQL_Customer_Table_Dataset
 - SQL_Product_Table_Dataset
- Data flows
- Power Query

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Copy data

Copy Customer ADLS land...

General

Name * Copy Customer ADLS land CSV_file_To_A... Learn more

Description Copy Customer file SalesLT.Customer.txt in ADLS 'landing/CSV' folder. Now this time try to move this file to another

Activity state ☒ Activated ☐ Deactivated

Timeout 0.12:00:00

Retry 0

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Factory Resources

- Pipelines
 - Copy_Customer_JSON_To_Folder
 - Copy_Customer_Table_To_CSV
 - Copy_Customer_To_JSON
 - Copy_ProductTable_To_CSV
 - Copy_Customer_To_CSV_Pipe
- Change Data Capture (preview)
- Datasets
 - ADLS_Customer_CSV_Dataset
 - ADLS_Customer_CSV_Pipe
 - ADLS_Datalake_storage_CSV_Dataset
 - ADLS_JSON_Dataset
 - SQL_Customer_Table_Dataset
 - SQL_Product_Table_Dataset
- Data flows
- Power Query

Activities

- Move and transform
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Copy data

Copy Customer ADLS land...

General

Source dataset * ADLS_Customer_CSV_Dataset Open + New Preview data Learn more

File path type ☐ File path in dataset ☐ Wildcard file path ☒ List of files

Path to file list landing/CSV/SalesLT.Customer.txt Browse

Enable partitions discovery ☐

Max concurrent connections

Skip line count

Additional columns + New

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Factory Resources

- Pipelines (5)
 - Copy_Customer_JSON_To_Folder
 - Copy_Customer_Table_To_CSV
 - Copy_Customer_To_JSON
 - Copy_ProductTable_To_CSV
 - Copy_Customer_To_CSV_Pipe
- Change Data Capture (preview) (0)
- Datasets (6)
 - ADLS_Customer_CSV_Dataset
 - ADLS_Customer_CSV_Pipe
 - ADLS_DataLake_storage_CSV_Dataset
 - ADLS_JSON_Dataset
 - SQL_Customer_Table_Dataset
 - SQL_Product_Table_Dataset
- Data flows (0)
- Power Query (0)

ADLS_DataLake_storage_CSV_Dataset

DelimitedText

ADLS_DataLake_storage_CSV_Dataset

Connection Schema Parameters

Linked service * ADLS_Azure_DataLakeStorage1_Link... Test connection Edit + New Learn more

Connection successful

File path * landing / CSV2 / File name Browse Preview data

Compression type Select...

Column delimiter Comma (,)

Row delimiter Default (r,n, or \r\n)

Encoding Default(UTF-8)

Quote character Double quote (")

Escape character Backslash (\)

First row as header ☒

Null value

landing >

Upload Add Directory

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

Location: landing / CSV2

Search blobs by prefix (case-...)

Show deleted objects

Name

- [.]
- SalesLT.Customer.txt

CSV2/SalesLT.Customer.txt

Blob

Save Discard Download Refresh Delete Change tier Acquire lease Break lease

Overview Versions Edit Generate SAS

Properties

URL	https://gopi01012024a...
LAST MODIFIED	1/28/2024, 11:52:24 PM
CREATION TIME	1/28/2024, 11:52:24 PM
VERSION ID	-
TYPE	Block blob
SIZE	212.88 KiB
ACCESS TIER	Hot (Inferred)
ACCESS TIER LAST MODIFIED	N/A
ARCHIVE STATUS	-
REHYDRATE PRIORITY	-
SERVER ENCRYPTED	true
ETAG	0x8DC2053CB90B4F0
VERSION-LEVEL IMMUTABILITY POLICY	Disabled
CACHE-CONTROL	
CONTENT-TYPE	application/octet-stream
CONTENT-MD5	
CONTENT-ENCODING	
CONTENT-LANGUAGE	
CONTENT-DISPOSITION	
LEASE STATUS	Unlocked
LEASE STATE	Available
LEASE DURATION	-
COPY STATUS	-
COPY COMPLETION TIME	-

.....

Pipeline 4:

Tough Question:

Create another pipeline name: Copy_Customer_To_CSV_Pipe In the newly created SQL DB there is one built in SalesLt.Customer table.

Copy the Customer table data to CSV file in 'landing/CSV_Pipe' folder in ADLS using the ADF. But **ensure that the delimiter of this file should be (|) instead of (,)**

Factory Resources

Filter resources by name

Pipelines5

Copy_Customer_JSON_To_Folder

Copy_Customer_Table_To_CSV

Copy_Customer_To_JSON

Copy_ProductTable_To_CSV

Copy_Customer_To_CSV_Pipe

Change Data Capture (preview)0

Datasets6

ADLS_Customer_CSV_Dataset

ADLS_Customer_CSV_Pipe

ADLS_Datalake_storage_CSV_Dataset

ADLS_JSON_Dataset

SQL_Customer_Table_Dataset

SQL_Product_Table_Dataset

Data flows0

Power Query0

Activities

cop

Move and transform

Copy data

Validate

Validate copy runtime

Debug

Add trigger

Copy data

Copy Customer table to CSV Pipe

General

Source

Sink

Mapping

Settings

User properties

Source dataset *

SQL_Customer_Table_Dataset

Open

New

Preview data

Use query

Table

Query

Stored procedure

Query timeout (minutes)

120

Isolation level

Select...

Partition option

None

Physical partitions of table

Dynamic range

Please preview data to validate the partition settings.

Additional columns

New

Copy data

Copy Customer table to CSV Pipe

General

Source

Sink

Mapping

Settings

User properties

Sink dataset *

ADLS_Customer_CSV_Pipe

Open

New

Learn more

Copy behavior

Select...

Max concurrent connections

Block size (MB)

Metadata

New

Quote all text

File extension

.txt

Max rows per file

S

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Data Factory Validate all Publish all

Factory Resources

Filter resources by name

Pipelines 5

- Copy_Customer_JSON_To_Folder
- Copy_Customer_Table_To_CSV
- Copy_Customer_To_JSON
- Copy_ProductTable_To_CSV
- Copy_Customer_To_CSV_Pipe

Change Data Capture (preview) 0

Datasets 6

- ADLS_Customer_CSV_Dataset
- ADLS_Customer_CSV_Pipe
- ADLS_Datalake_storage_CSV_Dataset
- ADLS_JSON_Dataset
- SQL_Customer_Table_Dataset
- SQL_Product_Table_Dataset

Data flows 0

Power Query 0

Activities

Validate Debug Add trigger

Copy

Move and transform

Copy data

Copy data

Copy Customer table to CSV Pipe

Parameters Variables Settings Output

Pipeline run id: 228d9037-e2de-49c6-b62e-d8f5e17b71a5 **Pipeline status** Succeeded

All status

Showing 1 - 1 of 1 items

Activity name	Activity status	Activity type	Run start	Duration	Integration run
Copy Customer table to CSV ...	Succeeded	Copy data	1/29/2024, 12:46:50 AM	15s	AutoResolveInt

landing

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

Location: landing / CSV_Pipe

Search blobs by prefix (case-...)

Show deleted objects

Settings

Shared access tokens

Manage ACL

Access policy

Properties

Metadata

CSV_Pipe/SalesLT.Customer.txt



Overview Versions Edit Generate SAS

```
1 CustomerID|NameStyle|Title|FirstName|Middlename|LastName|Suffix|CompanyName|SalesPerson|EmailAddress|Phone|Passwdhash|Passwordsalt|rowguid|ModifiedDate
2 1|False|Mr.|"Orlando"|N.|"Gee"|A Bike Store|"adventure-works\pamelal"|Orlando@adventure-works.com|"245-555-0173"|L/81ucxp4u7RmEgXx/a7CxaePFP
3 2|False|Mr.|"Mitchell"|Harris|"Progressive Sports|"adventure-works\davidl8"|kathl@adventure-works.com|"220-555-0127"|VP8R6vqakb4yux1Ez/dm0dKAC
4 3|False|Ms.|"Donna"|F.|"Carreras"|Advanced Bike Components|"adventure-works\jilliana8"|donna@adventure-works.com|"229-555-0138"|Uho027a8Q0q48G
5 4|False|Ms.|"Janet"|M.|"Gates"|Modular Cycle Systems|"adventure-works\jilliana8"|janet@adventure-works.com|"210-555-0173"|E1z7p5H0ADuTUE+K5u4FR
6 5|False|Ms.|"Lucy"|J.|"Harrington"|Metropolitan Sports Supply|"adventure-works\shub"|Lucy@adventure-works.com|"828-555-0188"|K3zV153xk3P8P5555566p
7 6|False|Ms.|"Rosmaria"|J.|"Carroll"|Aerobic Exercise Company|"adventure-works\linda3"|rosmaria@adventure-works.com|"244-555-0122"|70XT0u1c1cD2
8 7|False|Mr.|"Domitrius"|P.|"Gosh"|Associated Bikes|"adventure-works\shub"|domitri@adventure-works.com|"192-555-0173"|Zccp/3200w4pcc7RM0d9S11VF
9 8|False|Ms.|"Kathleen"|M.|"Garza"|Rural Cycle Emporium|"adventure-works\josel"|kathleen@adventure-works.com|"150-555-0127"|Qa10C4u6H6Gr0r099
10 9|False|Ms.|"Katherine"|J.|"Hendling"|Sharp Bikes|"adventure-works\josel"|katherine@adventure-works.com|"926-555-0150"|u010v2D001100E+eh18K+11T4
11 12|False|Mr.|"Johnny"|A.|"Caprio"|Bikes and Motorbikes|"adventure-works\garrett"|johnny@adventure-works.com|"112-555-0191"|J5F930Pv67a
12 16|False|Mr.|"Christopher"|R.|"Beck"|Bulk Discount Store|"adventure-works\jaab"|christopher@adventure-works.com|"1-111-500-555-0132"|18T
13 18|False|Mr.|"David"|J.|"Liu"|Catalog Store|"adventure-works\michael9"|david@adventure-works.com|"440-555-0133"|51z4TK041Eg6860umyBap/66C2H
14 19|False|Mr.|"John"|A.|"Beaver"|Center Cycle Shop|"adventure-works\pamelal"|john@adventure-works.com|"531-555-0195"|70h0X7818K18u992CHV006G
15 20|False|Ms.|"Jean"|P.|"Handley"|Central Discount Store|"adventure-works\david8"|jean@adventure-works.com|"582-555-0113"|0s0v03Exmt0z0/c00R0F
16 21|False|"Jinghua"|J.|"Liu"|Chic Department Store|"adventure-works\jilliana8"|jinghua@adventure-works.com|"928-555-0116"|74054e040H171J/v22009E1
17 22|False|Ms.|"Linda"|E.|"Burnett"|Travel Systems|"adventure-works\jilliana8"|linda@adventure-works.com|"221-555-0122"|23A0u4C0c9SP8u/B0d29K3
18 23|False|Mr.|"Karin"|J.|"Hart"|Bike World|"adventure-works\shub"|karin@adventure-works.com|"216-555-0122"|0h05J0a67Y3K0NjNAK0TC1C05H0Pua0S111
19 24|False|Mr.|"Kevin"|J.|"Liu"|Backside Department Store|"adventure-works\linda2"|kevin@adventure-works.com|"926-555-0164"|Y1P42M4K13h508J/K206
20 25|False|Mr.|"Donald"|L.|"Blanton"|Coalition Bike Company|"adventure-works\shub"|donald@adventure-works.com|"337-555-0161"|P4Y0u4L80Z0H08d2uH
21 28|False|Ms.|"Jackie"|E.|"Blackwell"|Commuter Bicycle Store|"adventure-works\josel"|jackie@adventure-works.com|"972-555-0183"|vupgE0T4eF420c
22 29|False|Mr.|"Bryan"|J.|"Hamilton"|Cross-Country Riding Supplies|"adventure-works\josel"|bryan@adventure-works.com|"344-555-0144"|4rH02T0oF+Jv0d
23 30|False|Mr.|"Todd"|M.|"Logan"|Cycle Merchants|"adventure-works\garrett"|todd@adventure-works.com|"783-555-0118"|Fv03B0y0u00u0c1e0L/2/LANP2
24 34|False|Ms.|"Barbara"|J.|"German"|Cycles Wholesaler & Mfg."|"adventure-works\jaab"|barbara@adventure-works.com|"1-111-500-555-0181"|2yD5530s
25 37|False|Mr.|"Zia"|J.|"Gelt"|Two Bike Shops|"adventure-works\pamelal"|zia@adventure-works.com|"724-555-0101"|Cvq64F2ku39J11u0u45/9y0518uexJFD
26 38|False|Ms.|"Betsy"|M.|"Haines"|Finner Harts|"adventure-works\david8"|betsy@adventure-works.com|"367-555-0181"|Q06A0012744R0K1u0e0y0y3426
27 39|False|Ms.|"Sharon"|J.|"Looney"|Fitness Hotel|"adventure-works\jilliana8"|sharon@adventure-works.com|"727-555-0132"|U0u0A0u093Q0P1FP6162H
28 40|False|Mr.|"Garren"|J.|"Gehring"|Journey Sporting Goods|"adventure-works\jilliana8"|garren@adventure-works.com|"437-555-0182"|h0pt4z7L0u0Kcc7y1
29 41|False|Ms.|"Erin"|M.|"Hagen"|Distast Inn|"adventure-works\shub"|erin@adventure-works.com|"244-555-0127"|925Rv13003070564R64232v15021g0b
30 42|False|Mr.|"Jeremy"|J.|"Lus"|Healthy Activity Store|"adventure-works\linda3"|jeremy@adventure-works.com|"911-555-0165"|JLJKW0u0272M0750N0eg05V
31 43|False|Ms.|"Elsa"|J.|"Leavitt"|Frugal Bike Shop|"adventure-works\shub"|elsa@adventure-works.com|"482-555-0174"|7bn7a1s476P4N0M0H7a02p0E1cu7K/
32 46|False|Mr.|"David"|J.|"Laurence"|Gear-Shift Bikes Limited|"adventure-works\josel"|david@adventure-works.com|"663-555-0159"|Hy2ewT1LFXhu/5b
```

Publish all

You are about to publish all pending changes to the live environment. [Learn more](#)

Pending changes (3)

NAME	CHANGE	EXISTING
▼ Pipelines		
 Copy_Customer_To_JSON	(New)	-
▼ Datasets		
 SQL_Customer_Table_Data...	(New)	-
 ADLS_JSON_Dataset	(New)	-

Publish

Cancel



10:49 PM

Microsoft Azure

Upgrade

Search resources, services, and docs (Ctrl)

goplatfma79@outloo...

Default directory: documents

goplatfma79@outloo...> Containers > landing >

landing

ntainer

h

view

ose and solve problems

is Control (IAM)

id access tokens

ipe ACL

rs policy

rties

data

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

Location: landing / CSV_Pipe

Search blobs by prefix (case-...)

Show deleted objects

Name

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1CustomerID|NameStyle|Title|Firstnamel|Middlelame|Lastlame|Suffix|Companylame|SalesPerson|Emailaddress|Phone|Passwordehash|PasswordeSalt|rougide|ModifledBue

21|False|"Mr."|"Orlando"|M."|"Gee"|A Bike Store|"adventure-works\jane1a0|"Orlando@adventure-works.com|"145-555-0173"|U|Flux2p4u7WmGdXx+A7oXaePE

3|False|"Mr."|"Keith"|Harris|"Progressive Sports|"adventure-works\david8|"keith@adventure-works.com|"170-555-0127"|YPdRdqvq4bJuyesf6sh8D0uok

4|False|"Ms."|"Donna"|F."|"Carrenas|"Advanced Bike Components|"adventure-works\jilliane0|"donna@adventure-works.com|"170-555-0138"|LliokZ7ab0Qo48g

5|False|"Ms."|"Janet"|H."|"Gates|"Modular Cycle Systems|"adventure-works\jilliane0|"janet@adventure-works.com|"170-555-0173"|EiTP5m0u02ut+L5culf

6|False|"Mr."|"Lucy"|Harrington|"Metropolitan Sports Supply|"adventure-works\shu0|"lucy@adventure-works.com|"928-555-0186"|K3Qp5Suax9P8T5G5Gdd

7|False|"Ms."|"Rosemarie"|J."|"Carroll|"Aerobic Exercise Company|"adventure-works\linda3|"rosmarie@adventure-works.com|"244-555-0112"|OKThsc1cGd

8|False|"Mr."|"Dominic"|P."|"Gash|"Associater Bikes|"adventure-works\shu0|"dominic@adventure-works.com|"192-555-0173"|ZccopJ2Q0q+Xpzc7KwXdh511V

9|False|"Ms."|"Kathleen"|H."|"Garza|"Rural Cycle Emporium|"adventure-works\jose1|"kathleen@adventure-works.com|"158-555-0127"|Qa3p4Ch8VurLore09

10|False|"Ms."|"Katherine"|Herding|"Sharp Bikes|"adventure-works\jose1|"katherine@adventure-works.com|"925-555-0159"|u8JovC20013501+448TJkx+11T

11|False|"Mr."|"Johnny"|A."|"Caprio|"Jr."|"Bikes and Motorbikes|"adventure-works\garrett1|"johnny@adventure-works.com|"112-555-0191"|JfF9J6Pv6T

12|False|"Ms."|"Christopher"|R."|"Beck"|Jr."|"Bulk Discount Store|"adventure-works\jae0|"christopher@adventure-works.com|"111-500-555-0132"|uK

13|False|"Mr."|"David"|J."|"Liu"|Catalog Store|"adventure-works\micha09|"david2@adventure-works.com|"140-555-0132"|61a27k0+4t5g5d6sum0p166Z

14|False|"Mr."|"John"|A."|"Heaver|"Center Cycle Shop|"adventure-works\jane1a0|"john@adventure-works.com|"521-555-0107"|T0zbqM7bUX5Xduab5C20V5066

15|False|"Ms."|"Jean"|P."|"Handley|"Central Discount Store|"adventure-works\david88|"jean@adventure-works.com|"582-555-0113"|0o5G03vEveK20b/ct0RG

16|False|"Jinghao"|Liu|"Chic Department Stores|"adventure-works\jilliane0|"jinghao@adventure-works.com|"928-555-0166"|La05AaeQ9kR11rJ1et20V068

17|False|"Ms."|"Linda"|E."|"Burrnett|"Travel Systems|"adventure-works\jilliane0|"linda@adventure-works.com|"221-555-0121"|23huuJCOX5P1uB+6S294

18|False|"Mr."|"Kevin"|Liu|"Eastside Department Store|"adventure-works\linda3|"kevin@adventure-works.com|"926-555-0164"|Y1P6IKMLCjJhJsh50jK18

19|False|"Mr."|"Donald"|L."|"Blanton|"Coalition Bike Company|"adventure-works\shu0|"donald@adventure-works.com|"357-555-0161"|pYDe1L80ZD90808zh

20|False|"Ms."|"Jackie"|E."|"Blackwell|"Cometer Bicycle Store|"adventure-works\jose1|"jackie@adventure-works.com|"992-555-0162"|uqgKv0fF642a3

21|False|"Mr."|"Bryan"|Hamilton|"Cross-Country Riding Supplies|"adventure-works\jose1|"bryan@adventure-works.com|"344-555-0144"|F6kRd1Z146P+14P

22|False|"Mr."|"Todd"|R."|"Logan|"Cycle Merchants|"adventure-works\garrett1|"todd@adventure-works.com|"783-555-0110"|FV6z83yutJ0uacuhTEolZ/s4P

23|False|"Ms."|"Barbara"|J."|"German|"Cycles Wholesaler & Mfg."|"adventure-works\jae0|"barbara@adventure-works.com|"111-500-555-0181"|2pYd3530

24|False|"Ms."|"Lisa"|Weist|"Too Bike Shops|"adventure-works\jane1a0|"lisa@adventure-works.com|"724-555-0161"|Cvq4C4Jcu9J1lJhK5s/nyh5L8ueJF

25|False|"Ms."|"Betty"|H."|"Haines|"Finer Mart|"adventure-works\david8|"betty@adventure-works.com|"867-555-0114"|Q/G4V2002ZT/4+8Q1u0tQy2ycLA2

26|False|"Mr."|"Sharon"|J."|"Looney|"Fitness Hotel|"adventure-works\jilliane0|"sharon@adventure-works.com|"377-555-0132"|Uo3KAuH036QFPIT4P91623

27|False|"Mr."|"Darren"|Gehring|"Journey Sporting Goods|"adventure-works\jilliane0|"darren@adventure-works.com|"417-555-0182"|Kxp1x1Z7LctUoKccy

28|False|"Ms."|"Erin"|H."|"Hagens|"Distant Inn|"adventure-works\shu0|"erin@adventure-works.com|"244-555-0127"|925Fv0180J0954Fok452V3c5a21gA

29|False|"Mr."|"Jeremy"|Los|"Healthy Activity Store|"adventure-works\linda3|"jeremy@adventure-works.com|"911-555-0165"|JUNKpmluT2Fzaw7S5uZeqd91

30|False|"Ms."|"Elsa"|Leavitt|"Frugal Bike Shop|"adventure-works\shu0|"elsa@adventure-works.com|"482-555-0174"|8n3aH+3476H0M0KhtTaTo2p8E3carJK

31|False|"Mr."|"David"|D."|"Laurence|"Gear-Shift Bikes Limited|"adventure-works\jose1|"david19@adventure-works.com|"653-555-0159"|hy2eV7TL4Kfhu/S

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