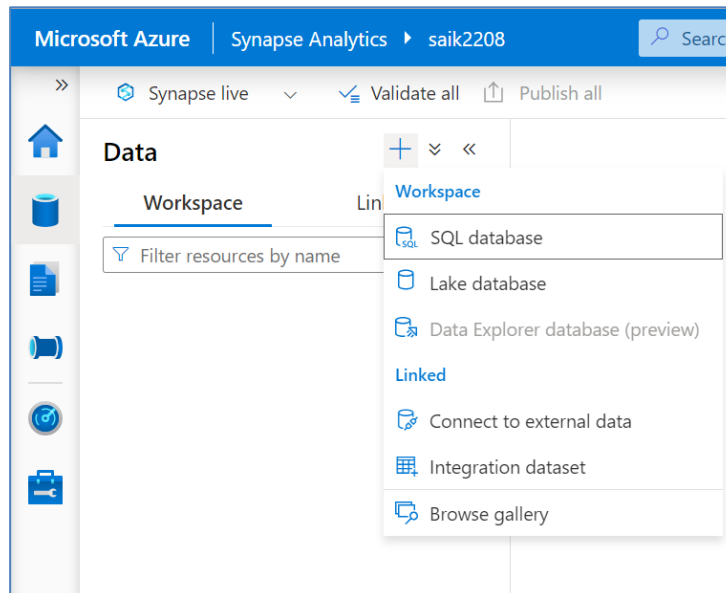




SQL POOL

Step 1

Creating SQL database from Data Hub by name "Payroll"



Create SQL database

Create database to organize your workload into databases and database objects.

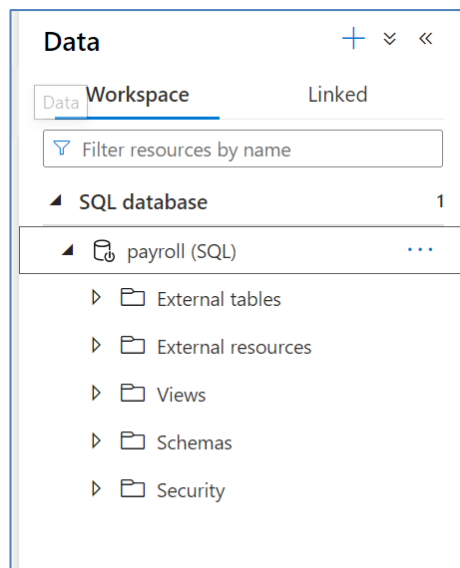
Select SQL pool type *

☒ Serverless ⓘ

☐ Dedicated ⓘ

Database *

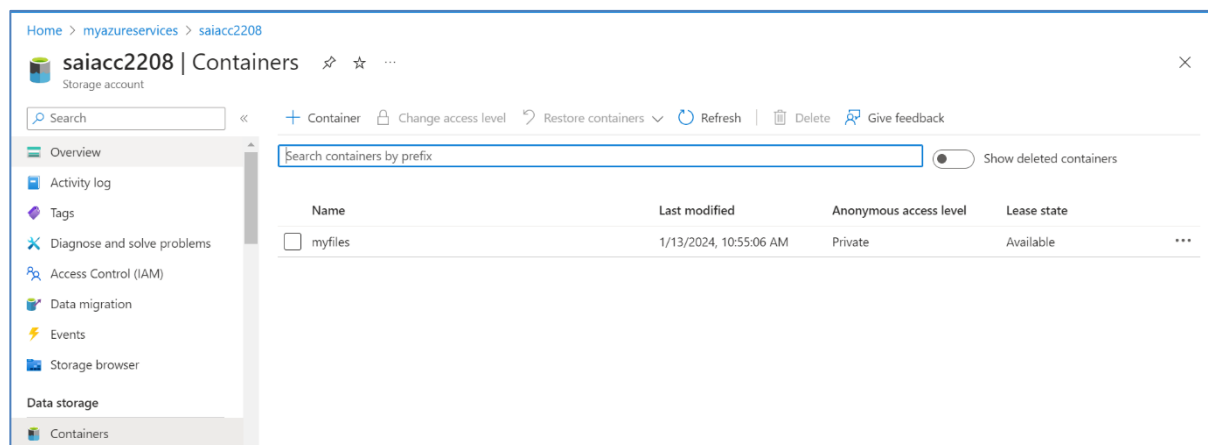
CreateCancel



Step 2

Load data into ADLS

Go to storage account, and create new container





New container

Name *

payrolldata

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

Click on the container and upload EMP.csv file.

Upload blob

1 file(s) selected: EMP.csv

Drag and drop files here or [Browse for files](#)

☐ Overwrite if files already exist

Advanced

Upload

Give feedback

From Synapse studio: Data Hub → Linked

Synapse live

Validate all

Publish all

Data

Workspace

Linked

Filter resources by name

Azure Data Lake Storage Gen2

saik2208 (Primary - saiacc2208)

myfiles (Primary)

payrolldata

(Attached Containers)

payrolldata

New SQL script

New notebook

New data flow

New integration dataset

Upload

Download

More

payrolldata

Name	Last Modified	Content Type
EMP.csv	1/13/2024, 11:09:28 AM	

New folder

Select all in page

Select all cached

Rename

Manage access

Properties

Delete

Refresh



Properties

Name
EMP.csv

URL
https://saiacc2208.dfs.core.windows.net/payrolldata/EMP.csv

ABFSS Path
abfss://payrolldata@saiacc2208.dfs.core.windows.net/EMP.csv

Last modified
1/13/2024, 11:09:28 AM

Cache Control

Content Type
text/csv

Content Disposition

Content Encoding

Apply Cancel

Click on **cancel**.

Step 3

Get Sample Data

Data Hub → Linked → Browse gallery

Gallery

Database templates **Datasets** Notebooks SQL scripts Pipelines

Filter by keyword Tags : All

Bing COVID-19 Data

Bing COVID-19 data includes confirmed, fatal, and recovered cases from all regions, updated daily.

ID: bing-covid-19-data

Boston Safety Data

Read data about 311 calls reported to the city of Boston. This dataset is stored in Parquet format and is updated daily.

ID: city_safety_boston

COVID Tracking Project

The COVID Tracking Project dataset provides the latest numbers on tests, confirmed cases, hospitalizations, and patient outcomes from every US state and...

ID: covid-tracking

Chicago Safety Data

Read data about 311 calls reported to the city of Chicago. This dataset is stored in Parquet format and is updated daily.

ID: city_safety_chicago

European Centre for Disease Prevention and Control (ECDC)

NOAA Integrated Surface Data (ISD)

NYC Taxi & Limousine Commission - For-Hire Vehicle

NYC Taxi & Limousine Commission - green taxi trip



Select **COVID-19** Data and click on continue, then click on **Add dataset**

Name	Last Modified	Content Type	Size
EMP.csv	1/13/2024, 11:09:28 AM		707 B

Step 4

CREATE EXTERNAL TABLE FROM FILE

Select your file (**EMP.csv**) from Data Hub

Right click on the file and **select** → **New SQL script** → **External Table**

Name	Last Modified	Content Type	Size
EMP.csv	1/13/2024, 11:09:28 AM		707 B



New external table

Source file format settings
Specify the format and layout of your data. [Learn more](#)

File path
payrolldata/EMP.csv
[Preview Data](#)

File type
CSV

Field terminator ⓘ
Default (comma ,)
☐ Edit

First row ⓘ
0

☒ Infer column names ⓘ

String delimiter ⓘ
Default (Empty string)

Continue

Cancel

Click on **Continue**



New external table

Select target database
[Learn more](#)

Select SQL pool* ⓘ

✓ Built-in

↻

Select a database* ⓘ

payroll

External table name

dbo.EMP

Create external table

☐ Automatically ☒ Using SQL script

ⓘ This will generate a SQL script and you will be required to run the SQL script.

Open script

Back

Cancel

IF NOT EXISTS (SELECT * FROM sys.external_file_formats WHERE name = 'SynapseDelimitedTextFormat')

CREATE EXTERNAL FILE FORMAT [SynapseDelimitedTextFormat]

**WITH (FORMAT_TYPE = DELIMITEDTEXT ,
FORMAT_OPTIONS (
FIELD_TERMINATOR = ',',
FIRST_ROW = 2,
USE_TYPE_DEFAULT = FALSE
))**

GO



```
IF NOT EXISTS (SELECT * FROM sys.external_data_sources
WHERE name =
'payrolldata_saiacc2208_dfs_core_windows_net')
    CREATE EXTERNAL DATA SOURCE
[payrolldata_saiacc2208_dfs_core_windows_net]
    WITH (
        LOCATION =
'abfss://payrolldata@saiacc2208.dfs.core.windows.net'
    )
GO
```

```
CREATE EXTERNAL TABLE dbo.EMP (
    [EMPNO] bigint,
    [ENAME] nvarchar(4000),
    [JOB] nvarchar(4000),
    [MGRID] bigint,
    [HIREDATE] nvarchar(4000),
    [SALARY] bigint,
    [COMM] nvarchar(4000),
    [DEPTNO] bigint
)
WITH (
    LOCATION = 'EMP.csv',
    DATA_SOURCE =
[payrolldata_saiacc2208_dfs_core_windows_net],
    FILE_FORMAT = [SynapseDelimitedTextFormat]
)
GO
```

```
SELECT TOP 100 * FROM dbo.EMP
GO
```


By Sai Kumar



Results

Messages

⌵

View

Table

Chart

↗ Export results ⌵

🔍 Search

EMPNO	ENAME	JOB	MGRID	HIREDATE
7369	SMITH	CLERK	7902	17-12-1980
7499	ALLEN	SALESMAN	7698	20-02-1981
7521	WARD	SALESMAN	7698	22-02-1981
7566	JONES	MANAGER	7839	02-04-1981
7654	MARTIN	SALESMAN	7698	28-09-1981
7698	BLAKE	MANAGER	7839	01-05-1981
7782	CLARK	MANAGER	7839	09-06-1981

⏪

⏩

*** **Happy Learning** ***