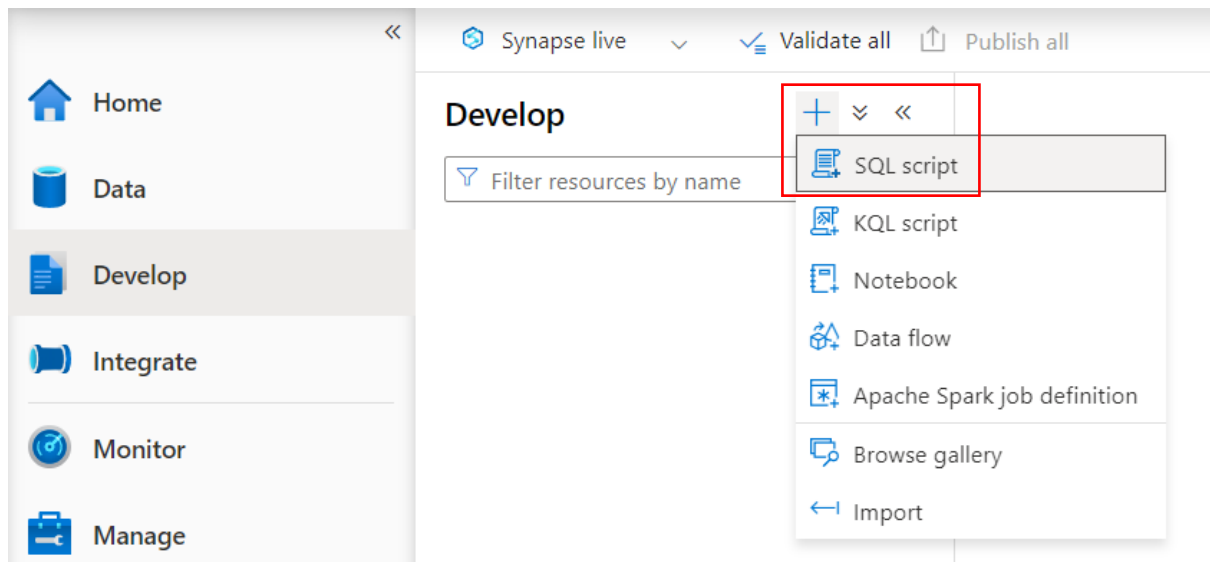




Creating External Tables in Azure Synapse

1. The prerequisite for this lab is that you have to download the Synapse code files attached to the labs.
2. In this lab we will create External tables in our Azure Synapse Workspace. For that first, we need to come to the Develop tab in our Workspace.
3. Click on the plus icon and choose to create a new SQL Script.



4. Then from the right pane you will see the properties section, from here you can give a name of your choice to the SQL Script.

Properties

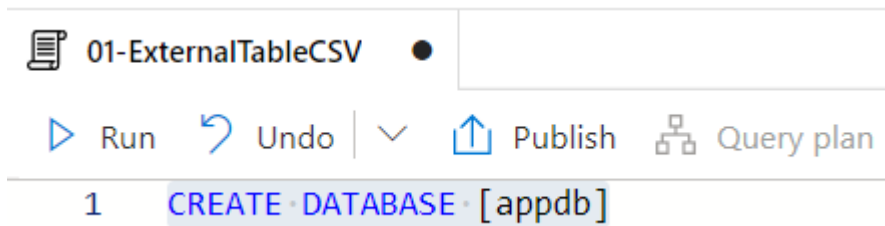
General Related (0)

Name *

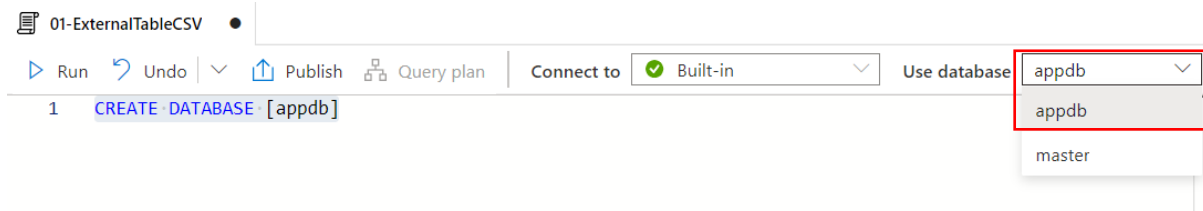
01-ExternalTableCSV

Description

5. Now to create an External Table first, we will create a database for our table. You need to run the command given below.



6. Then we have to change our database from master to appdb.



7. After that we will create an External Data source and a file format for our CSV file. While creating the external data source remember to change the name of the storage account to yours.



8. Then we need to create our table in which our data will be fetched from our Storage account or data lake.

```
01-ExternalTableCSV •
Run Undo Publish Query plan Connect to Built-in
1 CREATE EXTERNAL TABLE ActivityLog
2 (
3     [Correlationid] varchar(200),
4     [Operationname] varchar(300),
5     [Status] varchar(100),
6     [Eventcategory] varchar(100),
7     [Level] varchar(100),
8     [Time] varchar(100),
9     [Subscription] varchar(200),
10    [Eventinitiatedby] varchar(1000),
11    [Resourcetype] varchar(300),
12    [Resourcegroup] varchar(1000),
13    [Resource] varchar(2000))
14 WITH (
15     LOCATION='/ActivityLog01.csv',
16     DATA_SOURCE=srcActivityLog,
17     FILE_FORMAT=delimitedTxtFileFormat
18 )
```

9. Now if we run the Select from query to view the data in our table. You will be able to see the data.
10. Also, note that this data does not persist inside our table it is being fetched from the Data Lake.

```
20 SELECT * FROM ActivityLog;
21
```

Results Messages

View Table Chart Export results

Correlationid	Operationname	Status	Eventcategory	Level	Time	Subscription
c5cf5ce4-d26f-...	Delete Storage ...	Succeeded	Administrative	Informational	2024-05-30T15:...	387407e5-94af
c5cf5ce4-d26f-...	Delete website	Started	Administrative	Informational	2024-05-30T14:...	387407e5-94af
c5cf5ce4-d26f-...	Delete Namesp...	Started	Administrative	Informational	2024-05-30T14:...	387407e5-94af
c5cf5ce4-d26f-...	Delete website	Started	Administrative	Informational	2024-05-30T14:...	387407e5-94af
c5cf5ce4-d26f-...	Delete SQL dat...	Started	Administrative	Informational	2024-05-30T14:...	387407e5-94af
c5cf5ce4-d26f-...	Delete Storage ...	Started	Administrative	Informational	2024-05-30T14:...	387407e5-94af
c5cf5ce4-d26f-...	Delete hosting ...	Started	Administrative	Informational	2024-05-30T14:...	387407e5-94af

00:00:10 Query executed successfully.

11. Now you can play around with the SQL commands to view different aspects of the data. Also, on the top of your Workspace you will find the Publish All button which will save your SQL Script, click on it to save everything.