

Demo: Analyse Data using serverless SQL Pool

Step 1: Create a serverless database name mydbname

```
1 -- Create Database
2 CREATE DATABASE mydbname
3
4 -- Create data source
5 -- create master key that will protect the credentials:
6 CREATE MASTER KEY ENCRYPTION BY PASSWORD = 'sknfd#isfnasdkf!bsk1'
7
8 -- create credentials for containers in our demo storage account
9 CREATE DATABASE SCOPED CREDENTIAL sqlondemand
10 WITH IDENTITY='SHARED ACCESS SIGNATURE',
11 SECRET = 'sv=2018-03-28&ss=bfsrt=sco&sp=r1&st=2019-10-14T12%3A10%3A25Z&se=2061-12-31T12%3A10%3A00Z&sig=K1SU2u1lCscyTS0An0noZEp04t
12 GO
13 CREATE EXTERNAL DATA SOURCE SqlOnDemandDemo WITH (
14     LOCATION = 'https://sqlondemandstorage.blob.core.windows.net',
15     CREDENTIAL = sqlondemand
16 );
17
18 -- Query CSV files
19 SELECT TOP 10 *
20
```

Step: 2 From the URL we will link these files into this external resources and then we will explore the data. To enter into the location, we need shared access signature. Using this secret, we can enter into this blob location and to encrypt this secret we will create password.

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Step 3 : Now query the CSV file from Blob location, we are filtering for country name to Luxembourg and for year 2017.

```
18
19 -- Query CSV files
20 SELECT TOP 10 *
21 FROM OPENROWSET
22 (
23     BULK 'csv/population/*.csv',
24     DATA_SOURCE = 'SqlOnDemandDemo',
25     FORMAT = 'CSV', PARSE_VERSION = '2.0'
26 )
27 WITH
28 (
29     country_code VARCHAR (5)
30     , country_name VARCHAR (100)
31     , year smallint
32     , population bigint
33 ) AS r
34 WHERE
35     country_name = 'Luxembourg' AND year = 2017
36
```

Country_code	Country_name	Year	Population
LU	Luxembourg	2017	594130

So basically, this is how I create a SERVERLESS database and we can link different data sources, data files into this location, and then we can query into this our SERVERLESS database.