By Sai Kumar

CREATING PARTITIONED DELTA TABLE USING SPARK POOL

In this we will create partition based on **deptno** and store data partitioned based on department numbers which will create separate deptno folders, and table under **lakehouse**.

Upload **EMP.csv** file under "**mydata**"

Create new folder under myfiles08 container as "**depts_part**"

Note: Please use here your container name.

Code 1

```
data='abfss://myfiles08@mydata08.dfs.core.windows.net/mydata/'

target='abfss://myfiles08@mydata08.dfs.core.windows.net/depts_part'

spark.conf.set("spark.sql.sources.partitionColumnTypeInference.enabled", "false")
```

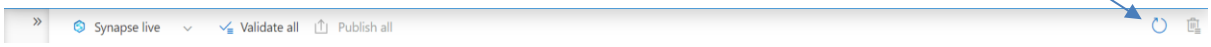
Code 2

```
%%sql

CREATE DATABASE IF NOT EXISTS departments

LOCATION
'abfss://myfiles08@mydata08.dfs.core.windows.net/depts_part'
```

Code 3

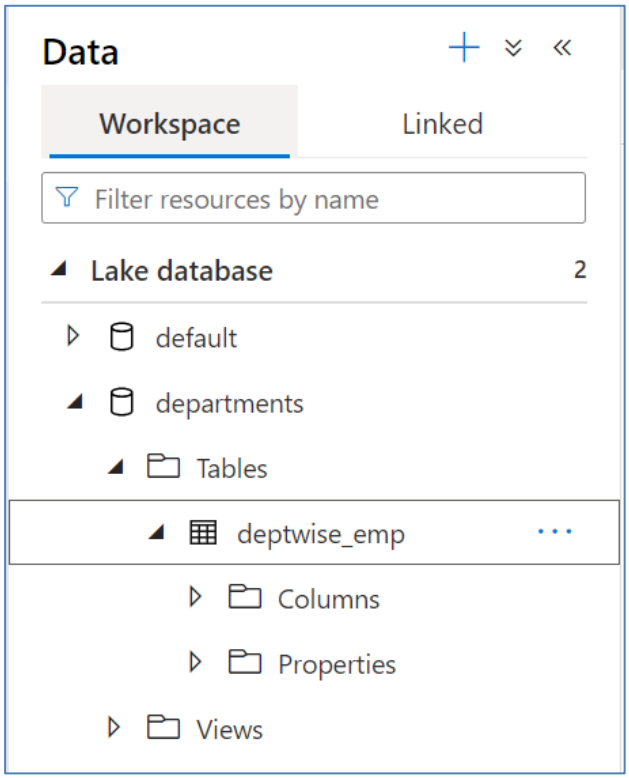
```
empDF=spark.read.option("header","true").csv(f"{data}/EMP.csv")

empDF.write.mode("overwrite").partitionBy("deptno").format("parquet").saveAsTable("departments.deptwise_emp")
```

Now refresh your synapse workspace from right side corner **refresh** icon

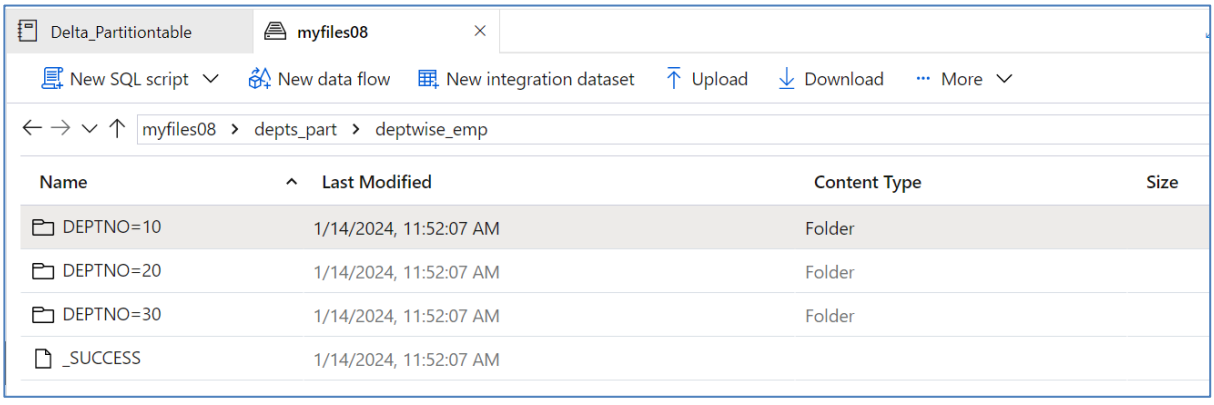


By Sai Kumar

Go to Data Hub and check under Workspace the **lakehouse → Database → Table**.



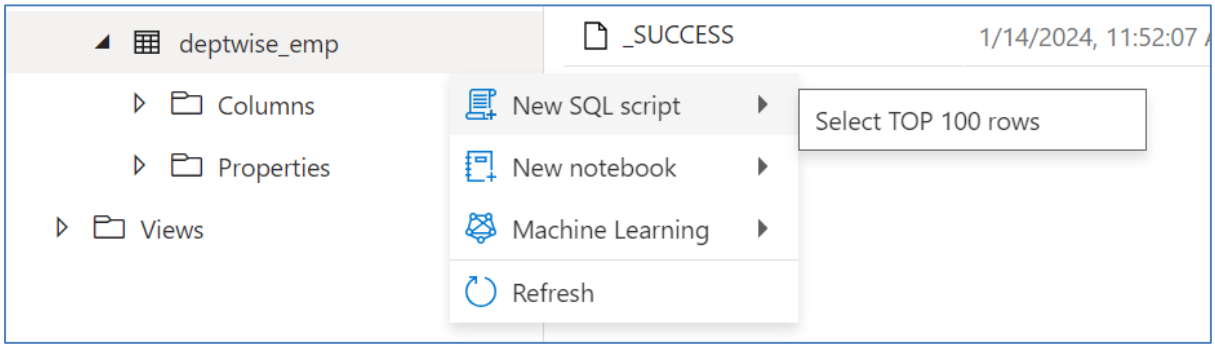
Now from linked select the container and double click the **dept_part** folder.

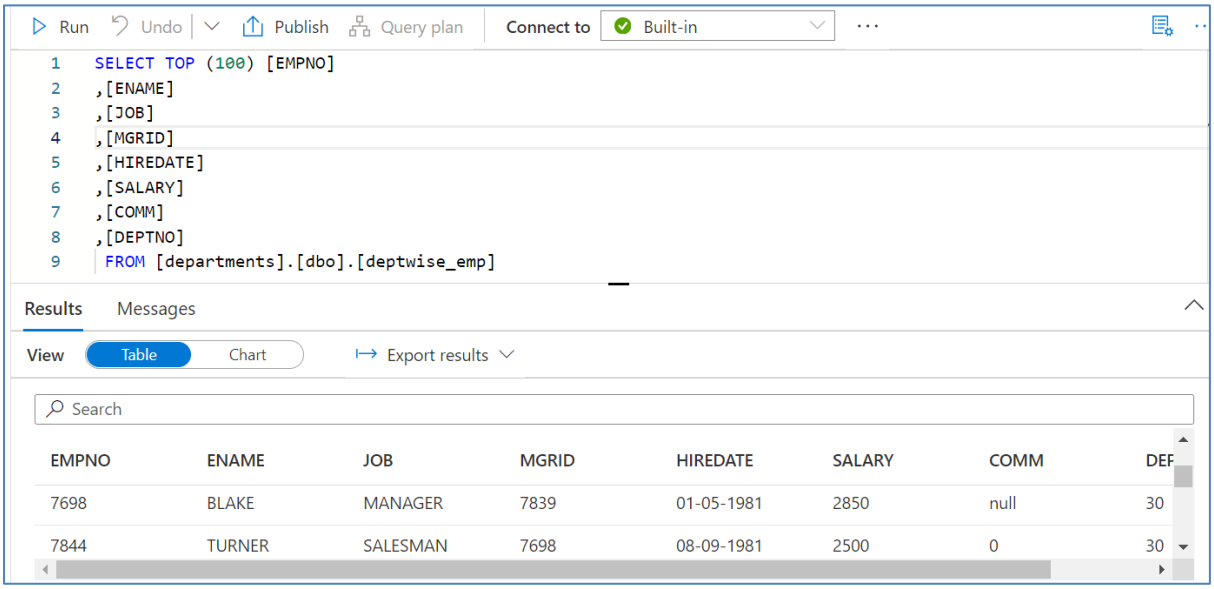


By Sai Kumar

Now let us query the data from SQL, since it is already integrated into SQL database.

Select the table, and from 3 dots at side of table select New SQL script, Select TOP 100 rows.





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