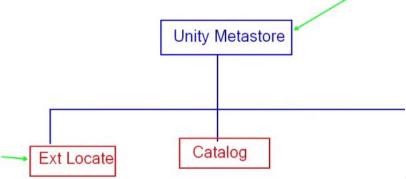


### Silver Notebook

## **Reading NOCS Data**

It was able to read the data using External Location for bronze container, but how DB knows that we need to use Bronze External Location

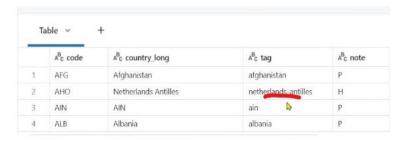


Ext Loc is connected to UM, so it

will try to hunt the ext location for that container & use it. And if no ext loc it will throw an error.

#### Dropping the column





```
Waiting

df = df.withColumn('tag',split(col('tag'),'-')[0])

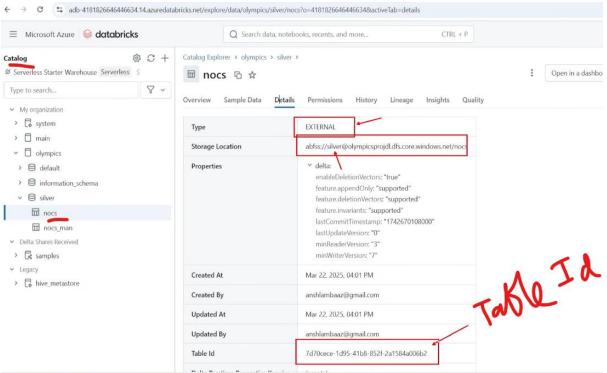
df.display()
```

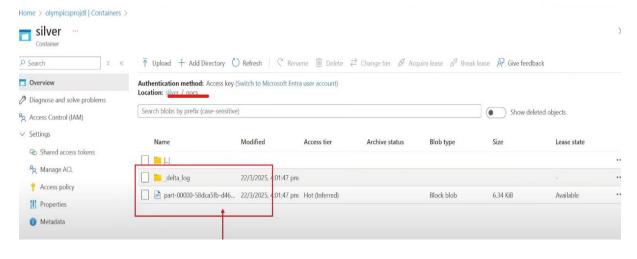
```
df.write.format("delta")\
.mode("append")\
.option("path", "abfss://silver@olympicsprojdl.dfs.core.windows.net/nocs")\
.saveAsTable("olympics.silver.nocs")

width layout

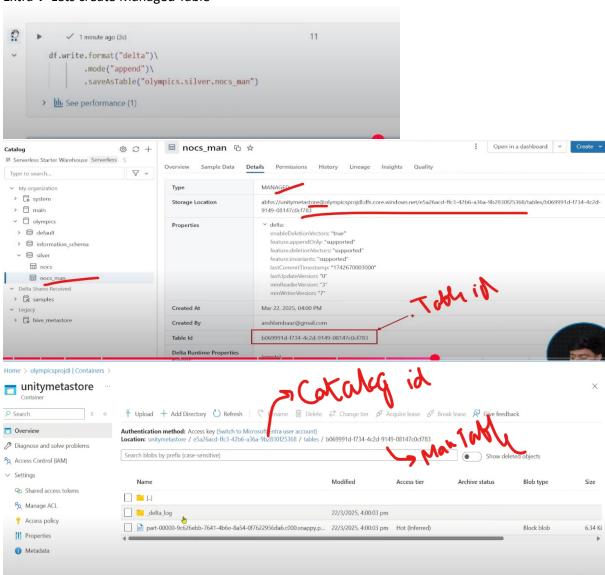
See performance (1)
```

#### Data will be in my container Data Lake but table metadata in metastore

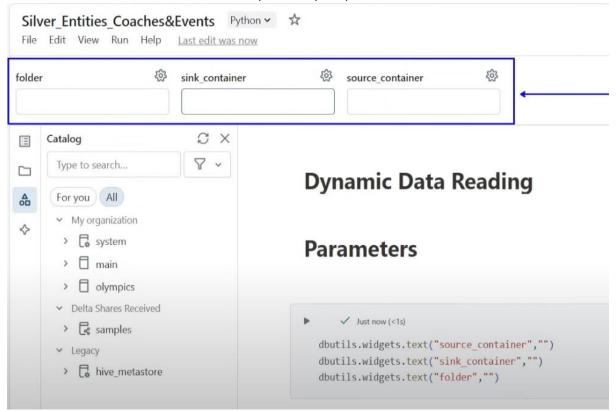




#### Extra → Lets create Managed Table



For Coaches & Events, lets read the data dynamically i.e. parameterized

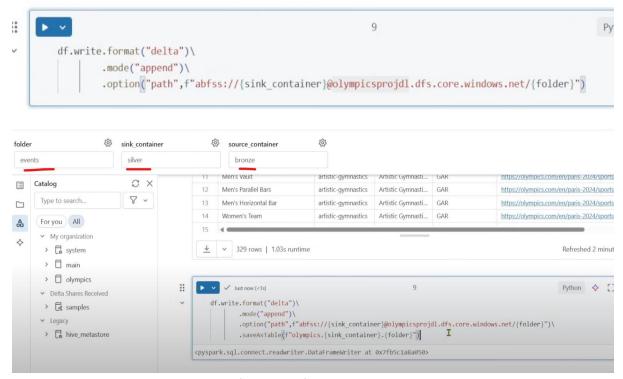


# **Fetching Parameters**

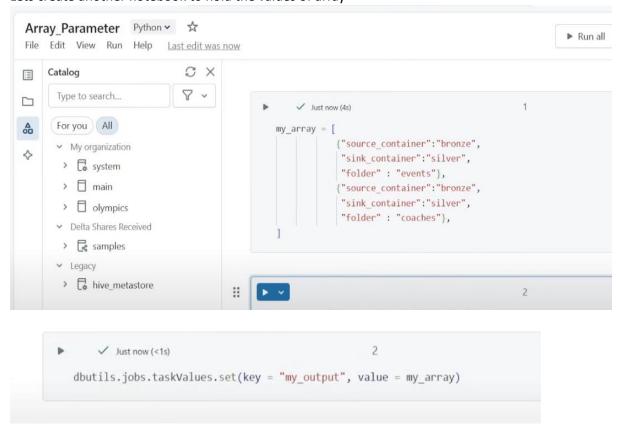


# **Parametrizing Code**

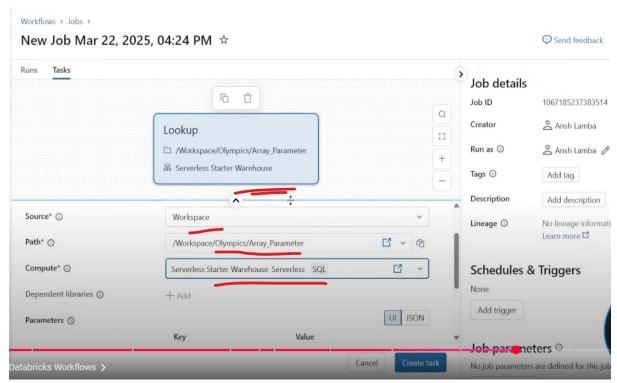




Now we want to pass the parameters from Workflows Lets create another notebook to hold the values of array



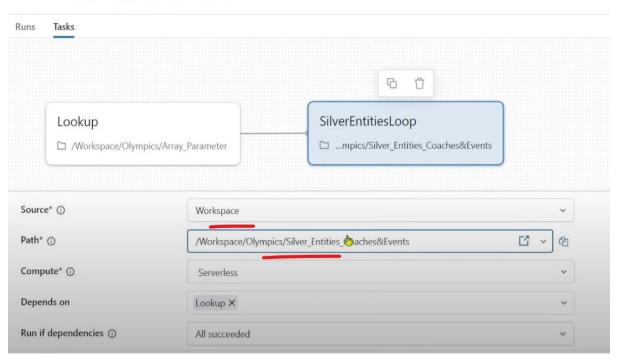
Now go to Workflows → Create Jobs →

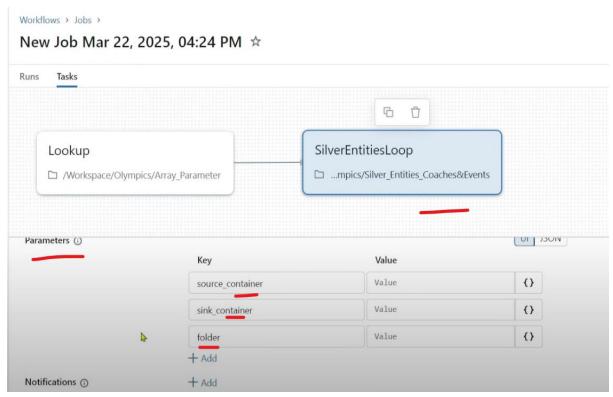


#### Create Task → Add new task

Workflows > Jobs >

## New Job Mar 22, 2025, 04:24 PM 🌣



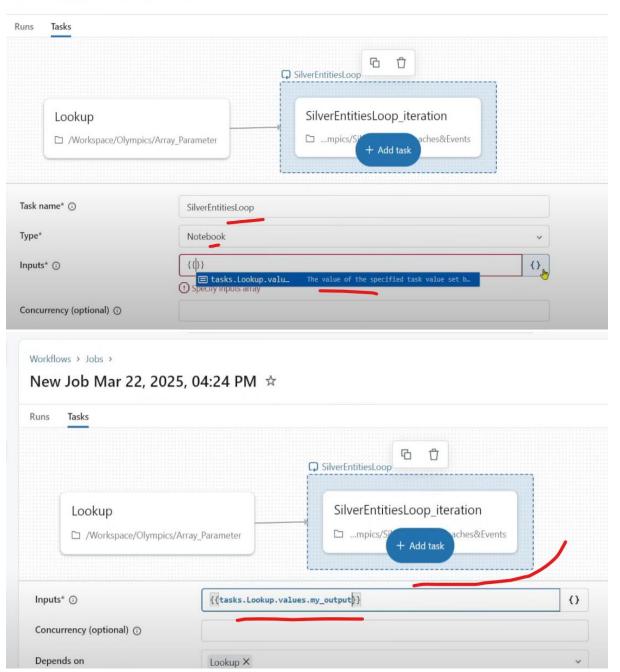


Value is coming from lookup in the form of array, but in value of parameters we can pass a single item only, so we have to loop through the output of Lookup

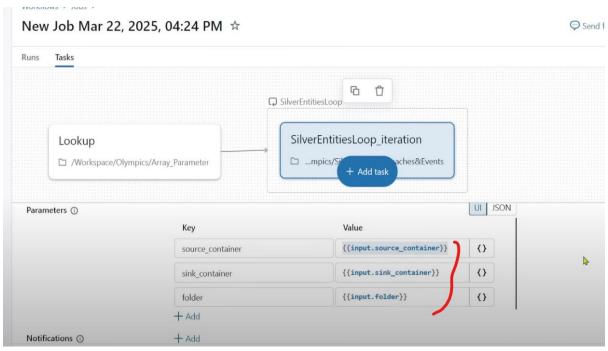


Workflows > Jobs >

## New Job Mar 22, 2025, 04:24 PM ☆

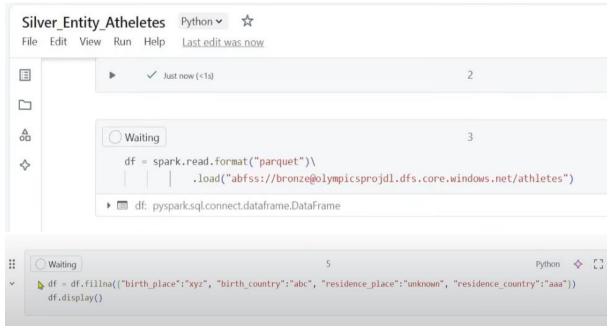


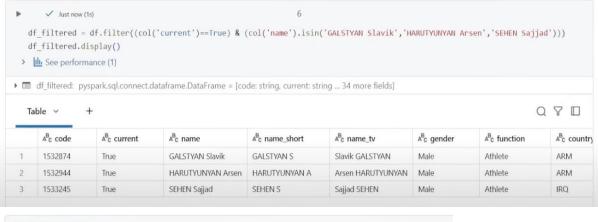
Now go to the Notebook activity inside the Loop



Save and Run the Workflow

Now lets work on the Athletes file (bronze to silver with some transformation)





```
Waiting

df_sorted = df.sort('height','weight',ascending=[0,1]).filter(col('weight')>0)

df_sorted.display()

Waiting

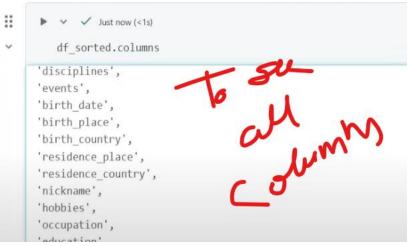
df_sorted = df_sorted.withColumn('nationality',regexp_replace('nationality','United States', 'US'))

df_sorted.display()
```

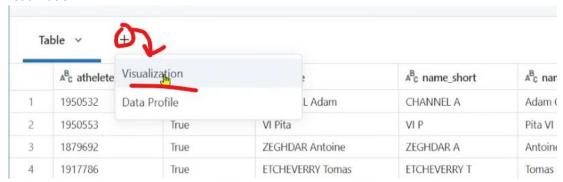
#### To find duplicate on a column



```
✓ Just now (1s)
                                                                       10
      df.groupBy('code').agg(count('code').alias('total_count')).filter(col('total_count')>1).display()
    > Illi See performance (1)
     Table v
         A<sup>B</sup>c code
                        123 total_count
     ○ Waiting
                                                                                 11
        df_sorted = df_sorted.withColumnRenamed("code", "athelete_id")
        df_sorted.display()
               occupation
                                              : ≡≎
               Athlete
               Athlete
               Athlete, electrician
               Athlete, lawyer
               Athlete
               Athlete
                Athloto
::
               ✓ Just now (1s)
                                                                                   12
          df_sorted = df_sorted.withColumn('occupation',split('occupation',','))
          df_sorted.display()
                        Last edit was now
           Table v
                           +
                                                                       & occupation
                                                                                                                  ABC
        41
                                                                       > ["Athlete"]
                                                                                                                  nu
                                                                       > ["Athlete"," student"]
        42
                                                                                                                  Stu
                                                                       > ["Athlete"]
        43
                                                                                                                  nu
                                                                       > ["Athlete"," student"]
        44
                                                                                                                  Stu
        45
                                                                       > ["Athlete"," student"]
                                                                                                                  Stu
                                                                       > ["Athlete"]
        46
                                                                                                                  Gra
                                                                       > ["Athlete"]
                                                                                                                  1900
        47
```



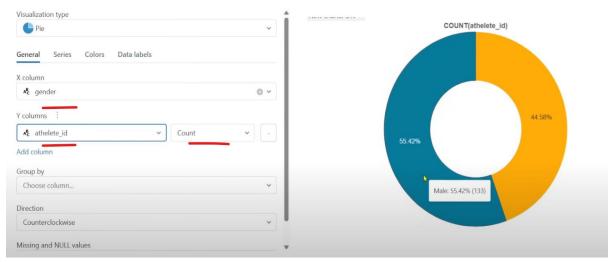
#### Visualization in ADB



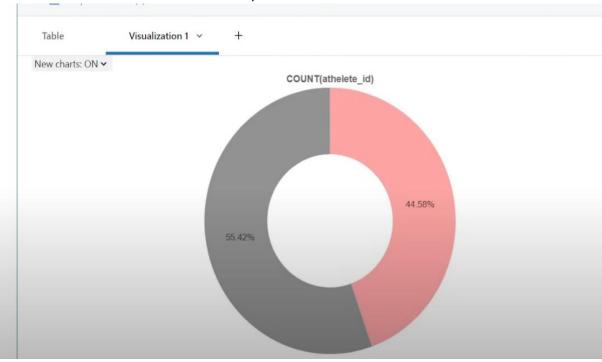
#### Visualization Editor



#### Visualization Editor



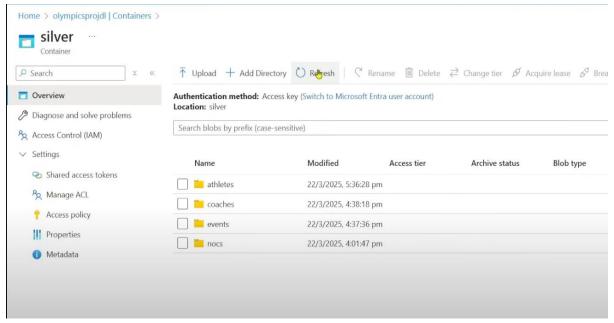
#### Save it to use it as a Dashboard in ADB only





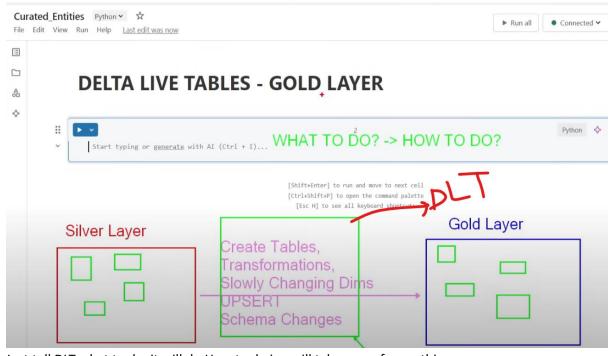


ry	ABc country_long	△B <sub>C</sub> nationality	ABC nationality_long	ABC nationality_code	1.2 height	1.2 weight	1.2 cum_weight
	Argentina	Argentina	Argentina	ARG	187	93	1081
	Argentina	Argentina	Argentina	ARG	191	96	1081
	Argentina	Argentina	Argentina	ARG	192	98	1081
	Argentina	Argentina	Argentina	ARG	195	105	1081
	Australia	Australia	Australia	AUS	164	62	1358
	Australia	Australia	Australia	AUS	167	56	1358
	Australia	Australia	Australia	AUS	170	72	1358
	Australia	Australia	Australia	AUS	172	74	1358
	Australia	Australia	Australia	AUS	173	66	1358
	Australia	Australia	Australia	AUS	173	78	1358
	Australia	Australia	Australia	AUS	174	70	1358
	Australia	Australia	Australia	AUS	175	84	1358

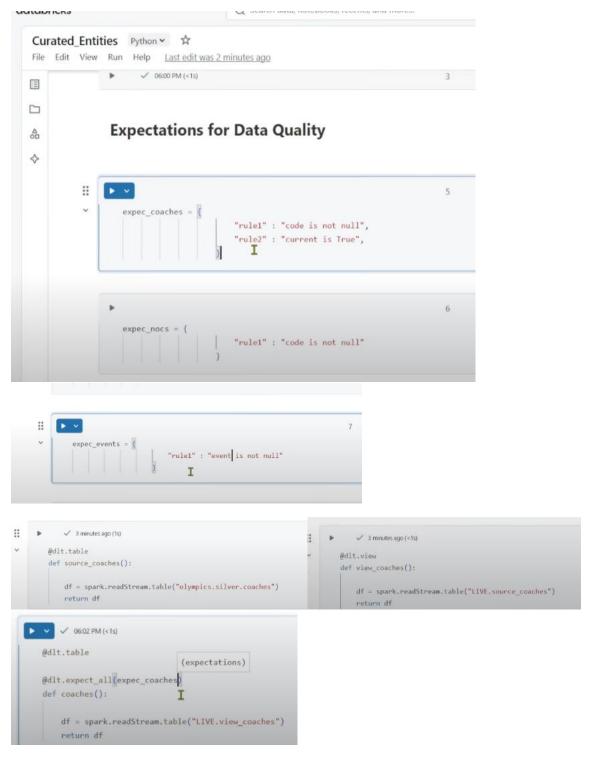


Now we have everything in silver

#### **GOLD**



Just tell DLT what to do, it will do How to do i.e. will take care of everything



## **NOCS DLT Pipeline**

## **Events DLT Pipeline**

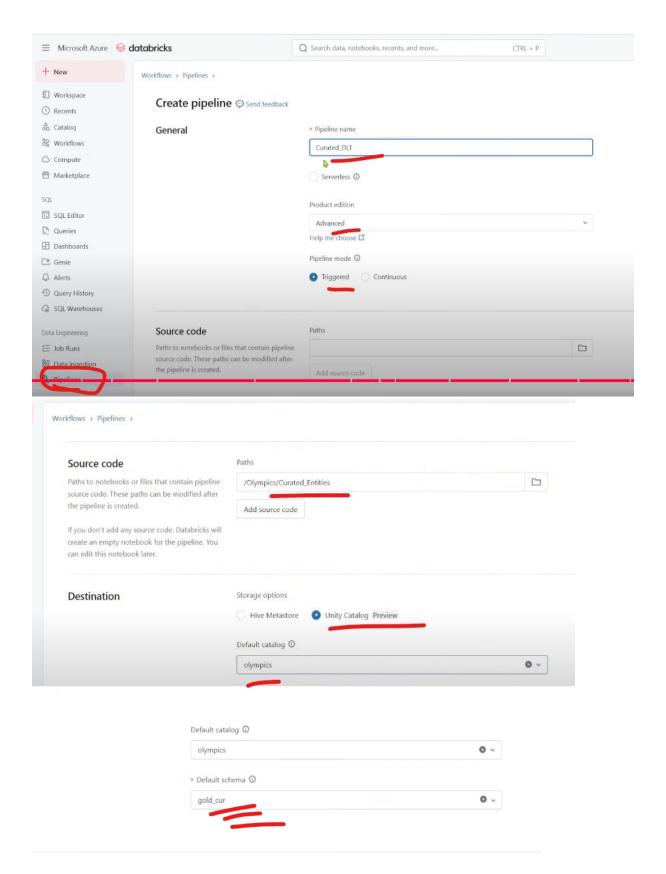


CDC/Apply Changes in DLT

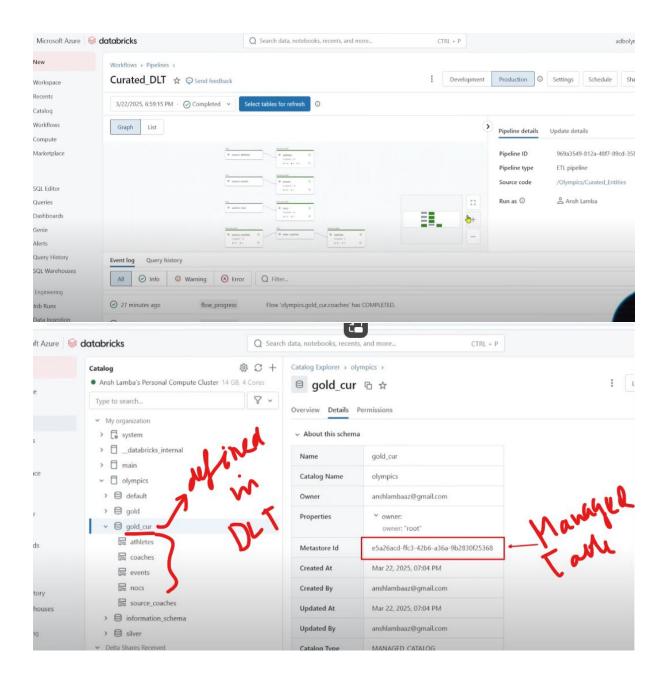
## **CDC - APPLY CHANGES (DLT)**

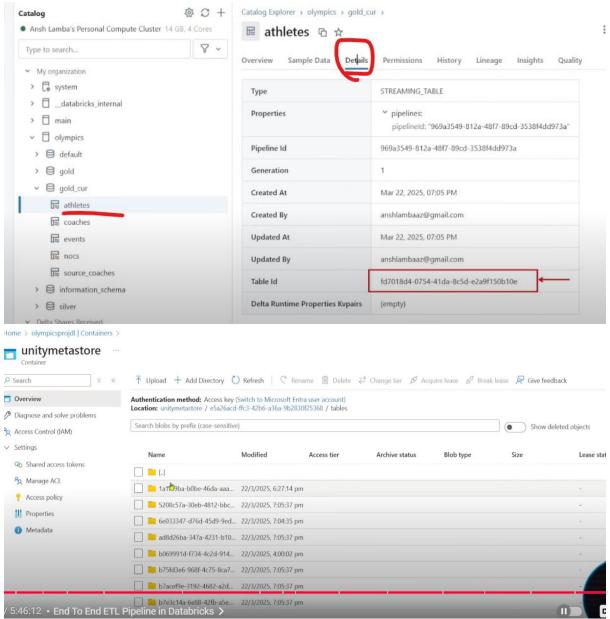


Create a pipeline

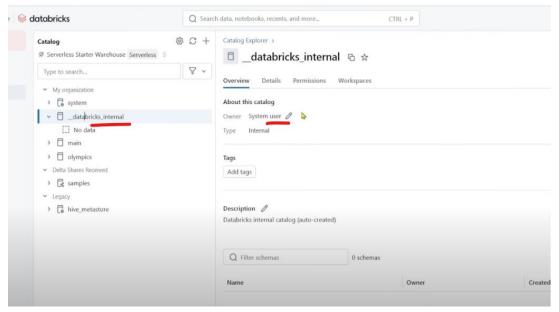


Run the DLT





These are all Delta Live Tables, No data is found for that table



Everything os managed by databricks\_internal which we don't have access to.

So what happens the Table ID in ADB UI is mapped with some random id in ADLS, that's why we are not able to track.