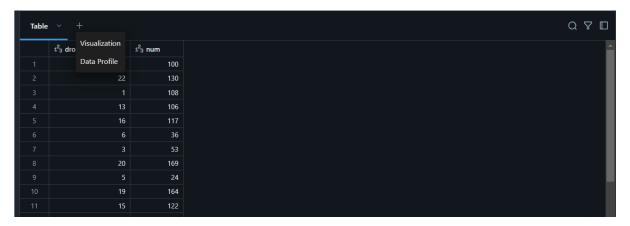
Coding Challenge | Azure Databricks

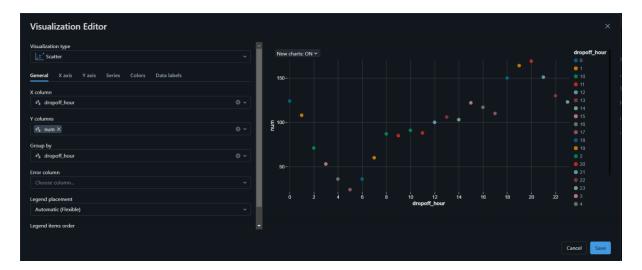
Divya Sree Murali

10/12/2024

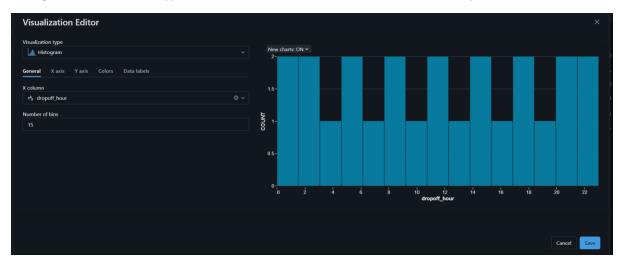
- a. Create a cluster &Attach the notebook to the cluster and run all commands in the notebook & creates a DataFrame from a Databricks dataset& Create a Visualizations in Databricks notebooks
- 1.Data Visualization
- 1.1. Running sql command and viewing visualization for the results

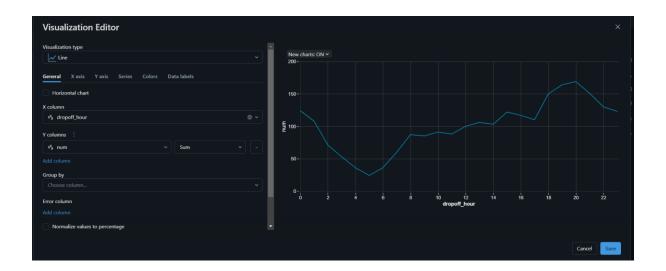
Select visualization to get the editor board



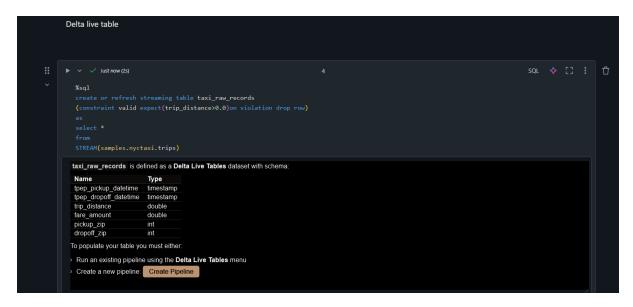


Change the visualization type and the dashboards can be saved for future requirements.



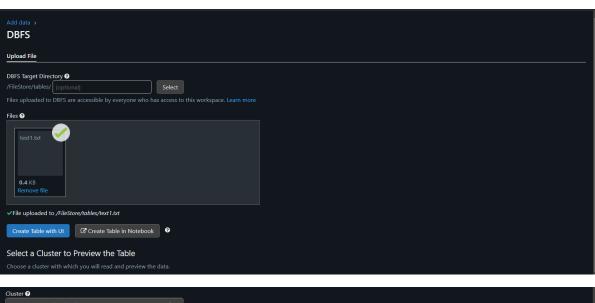


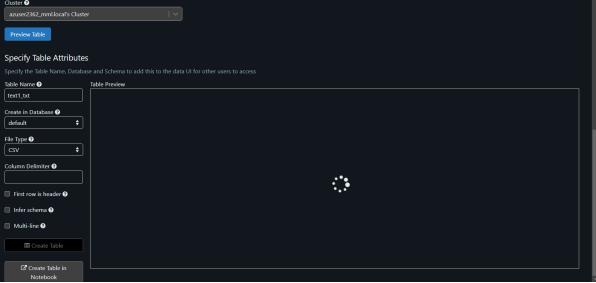
2.Creating Delta Live tables



3. Writing into delta tables

3.1. Uploading sample data into catalog





3.2. Reading the csv file and writing it in delta format



Displaying the log details of the above code



3.4. Reading content from delta format and perfroming manipulations in it

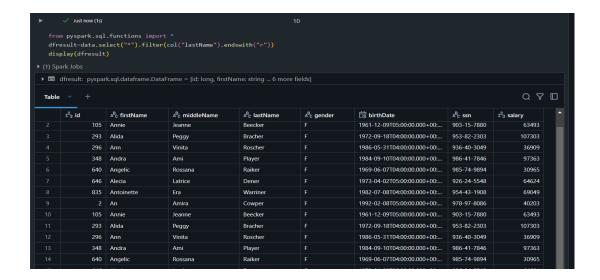
```
▶ ■ data: pyspark.sql.dataframe.DataFrame = [id: long, firstName: string ... 6 more fields]
| id|firstName|middleName| lastName|gender|

        An
        Amiral
        Cowper
        F|1992-02-08
        05:00:00|978-97-8086|
        40203|

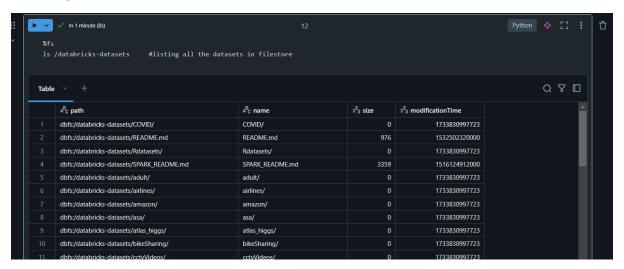
        Adelle
        Kathyrn|Grigoriev|
        F|1978-11-14
        05:00:00|923-23-5984|
        60600|

19
| 40| Alethea|
                                               F | 1960-06-26 04:00:00 | 908-46-4236 | 89151 |
                     Dolly Brickdale
                                              F|1990-10-24 04:00:00|947-17-3832| 63563|
                     Gita| Vassel|
Clelia| Hicks|
        Adelia
61
| 63|Anjanette|
                                               F|1973-10-26 04:00:00|981-32-5795| 61310|
        Alica| Elfrieda| Mousdall|
75
                                               F|1953-12-21 05:00:00|954-16-6401| 96490|
90
         Alice
                                               F|1992-05-21 04:00:00|924-10-7563| 34053|
|100| Annalisa|
                       Nova Patesel
                                               F | 1974-01-25 04:00:00 | 922-68-2542 | 66481 |
                                                F|1961-12-09 05:00:00|903-15-7880| 63493|
105
         Annie
                      Jeanne Beecker
|110| Alayna| Donnetta| Passby|
                                                F|1985-11-09 05:00:00|937-24-5796| 76967|
only showing top 10 rows
```

3.5. Getting the results where last name of the user ends with 'r'



3.6.Listing all the datasets in filestore



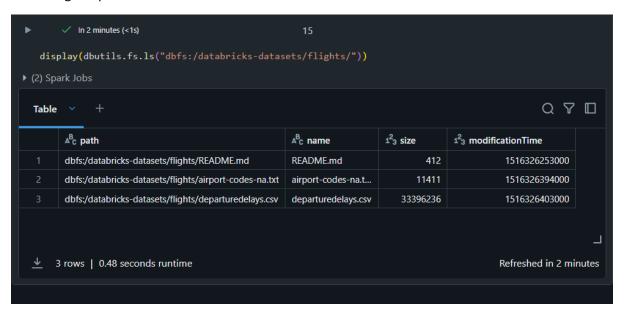
3.7.Listing secret scopes



3.8. Creating text widget and getting input values



3.9.Listing the particular dataset



3.10. Getting all the folder names

```
for foldername in dbutils.fs.ls("databricks-datasets/"):
    print(foldername.name)

nyctaxi-with-zipcodes/
online_retail/
overlap-join/
power-plant/
retail-org/
rwe/
sai-summit-2019-sf/
sample_logs/
samples/
sfo_customer_survey/
sms_spam_collection/
songs/
structured-streaming/
timeseries/
timeseries/
```

3.11. Running other notebooks using dbutils

