Azure Databricks Assignment - 2

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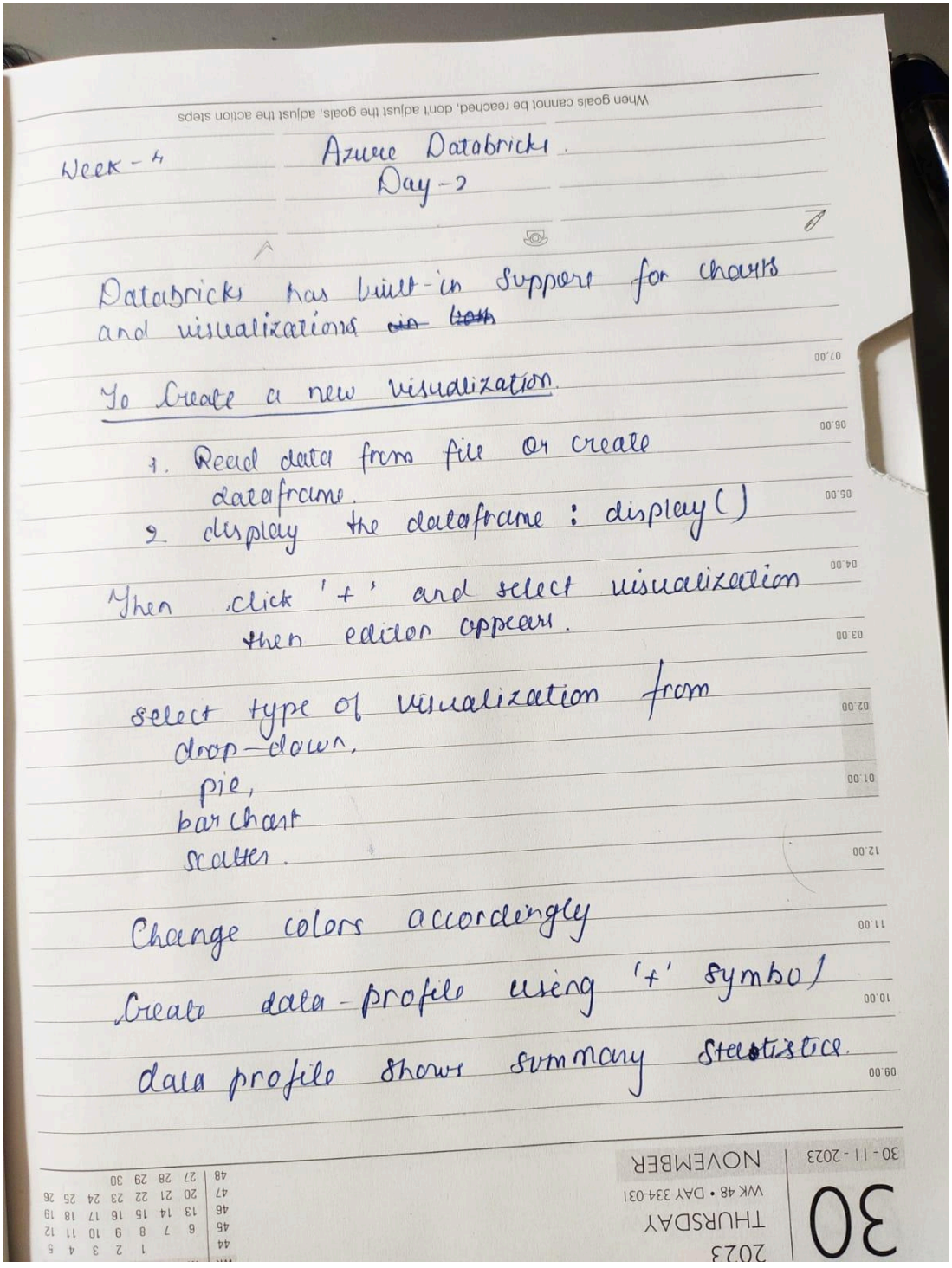
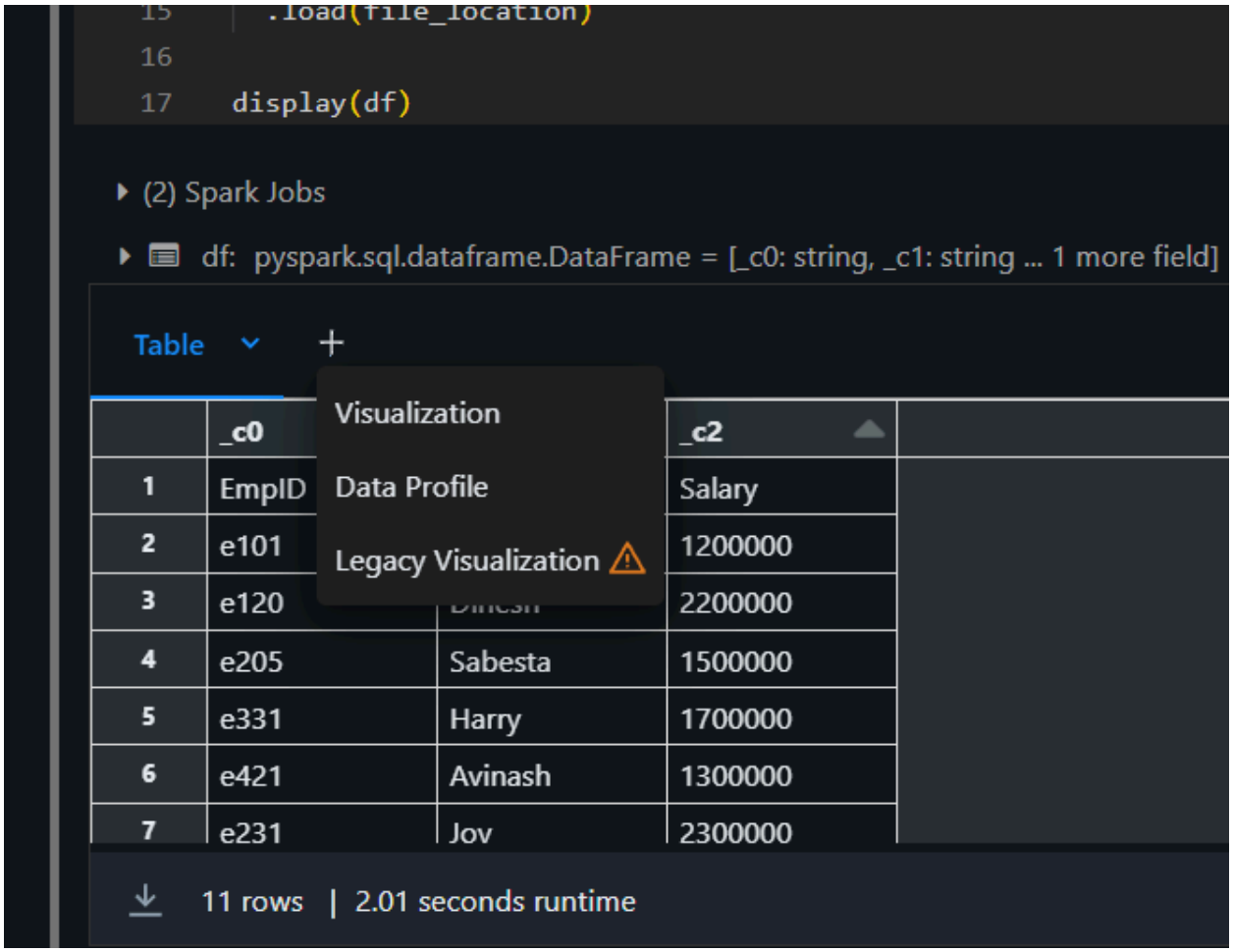
Data Exploration and Visualization in Databricks



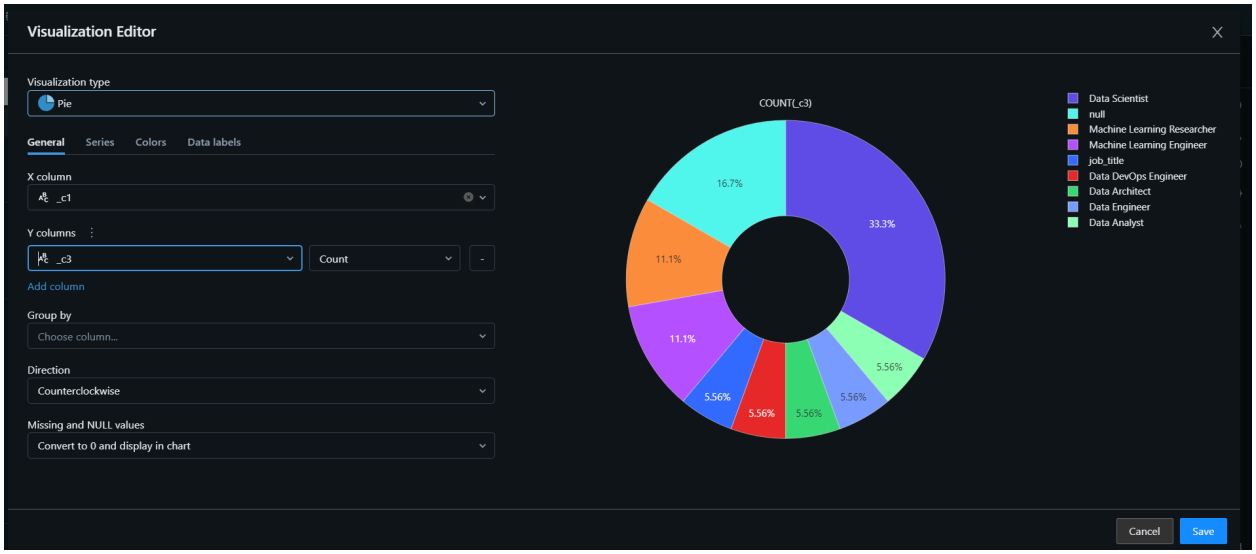
Hands-on Exercise: Visualizing data in Databricks

Creating new visualizations:
In order to create visualizations, we need to have data.
Here I provided data and used the display() method.

- After creating a table
- Click on + symbol
- Click on visualization.

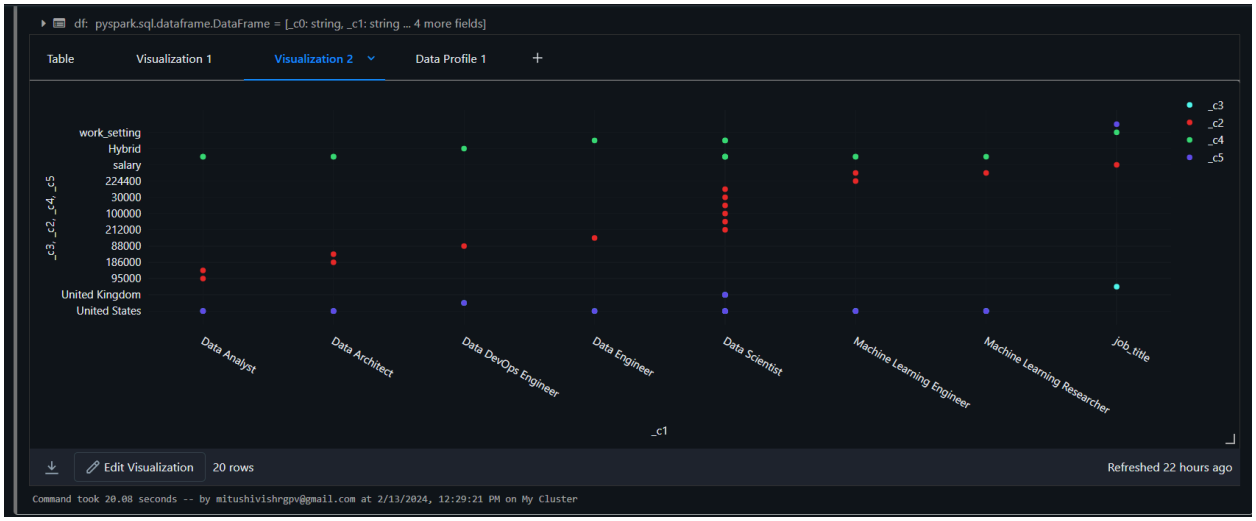


In the visualization editor, We can select which type of chart we want in the drop down. There are various options then to groupBy, change colors,etc.



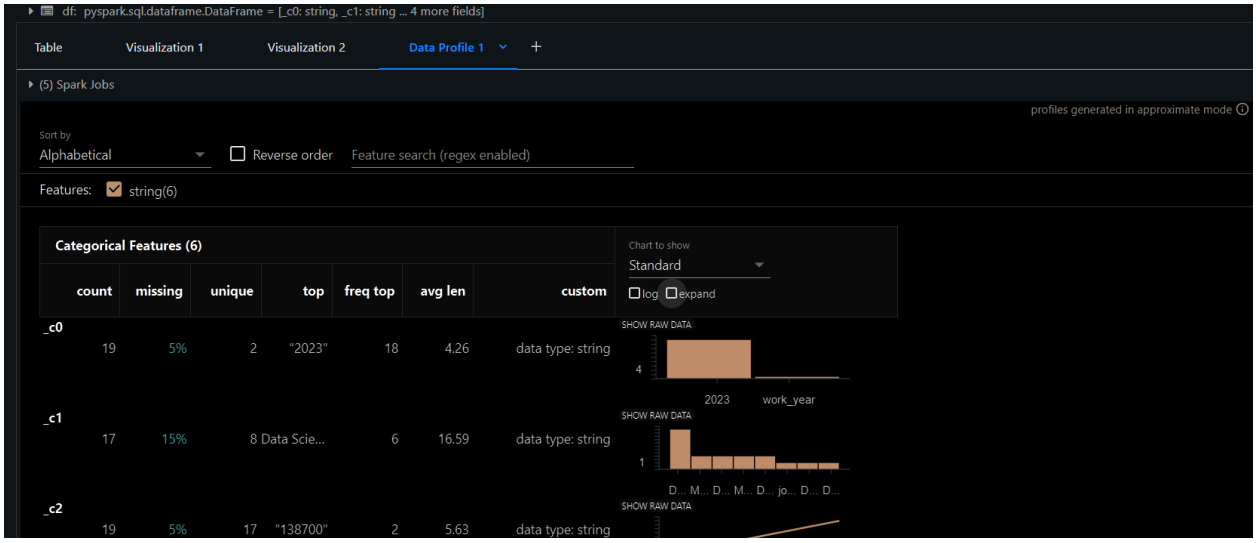
You can also change the color of the chart visualization by clicking “edit” on the bottom left corner.

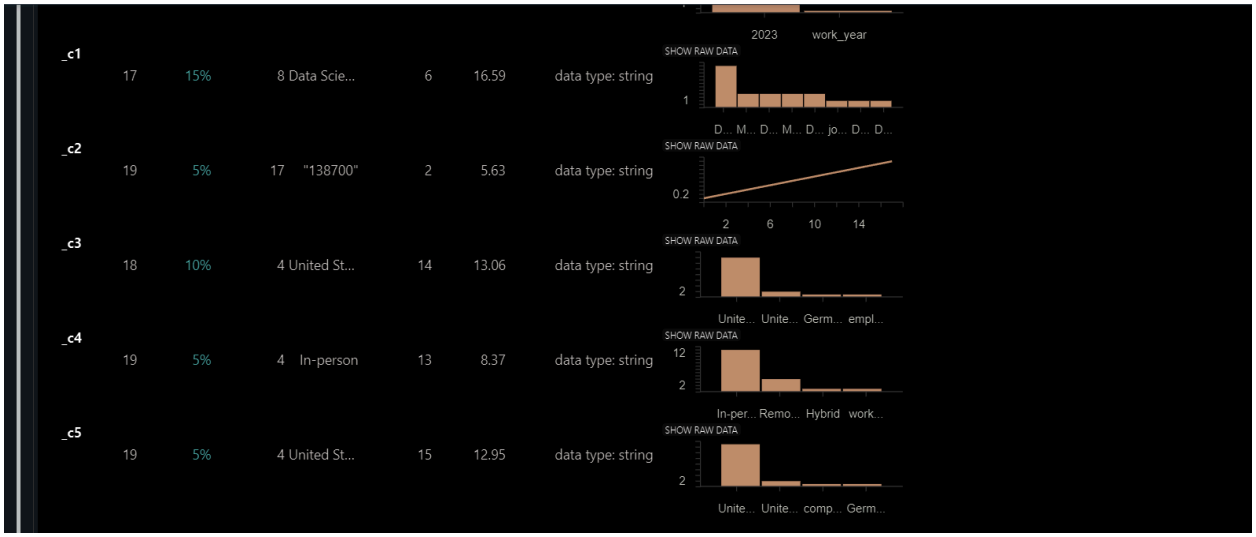
You can edit , delete , view and download visualization charts.



After creating the visualization, we can also create data profile.

Data profile : Used to analyse the data based on some trends, you can also order and filter the data.


df: pyspark.sql.dataframe.DataFrame = [_c0: string, _c1: string ... 4 more fields]
Table
Visualization 1
Visualization 2
Data Profile 1
(5) Spark Jobs
profiles generated in approximate mode
Sort by
Alphabetical
Reverse order
Feature search (regex enabled)
Features:
string(6)
Categorical Features (6)
Chart to show
Standard
log
expand
count missing unique top freq top avg len custom
_c0
19 5% 2 "2023" 18 4.26 data type: string
SHOW RAW DATA
4
2023
work_year
_c1
17 15% 8 Data Scie... 6 16.59 data type: string
SHOW RAW DATA
1
D... M... D... M... D... jo... D... D...
_c2
19 5% 17 "138700" 2 5.63 data type: string
SHOW RAW DATA


2023
work_year
_c1
17 15% 8 Data Scie... 6 16.59 data type: string
SHOW RAW DATA
1
D... M... D... M... D... jo... D... D...
_c2
19 5% 17 "138700" 2 5.63 data type: string
SHOW RAW DATA
0.2
2 6 10 14
_c3
18 10% 4 United St... 14 13.06 data type: string
SHOW RAW DATA
2
Unite... Unite... Germ... empl...
_c4
19 5% 4 In-person 13 8.37 data type: string
SHOW RAW DATA
12
2
In-per... Remo... Hybrid work...
_c5
19 5% 4 United St... 15 12.95 data type: string
SHOW RAW DATA
2
Unite... Unite... comp... Germ...