Assignment 15 June 2022

NAME: **ASHOK KUMAR** ROLL NUMBER: DXC-262-AB-1233

BATCH: DXC-262-ANALYTICS-B12-AZURE COMPANY: DXC TECHNOLOGY

EMPLOYEE DOMAIN: AZURE ANALYTICS

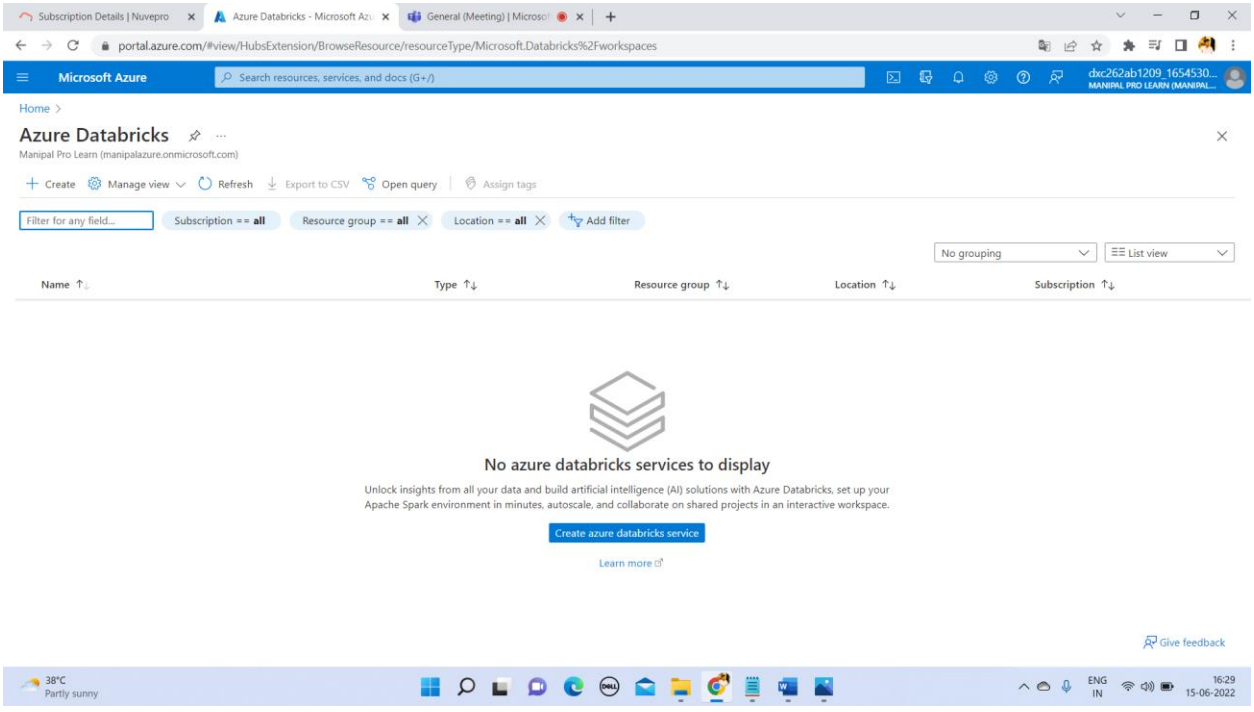
TRAINING UNDER: MANIPAL PRO LEARN

TRAINER NAME: MR. AJAY KUMAR DATE OF SUBMISSION: 15 JUNE 2022

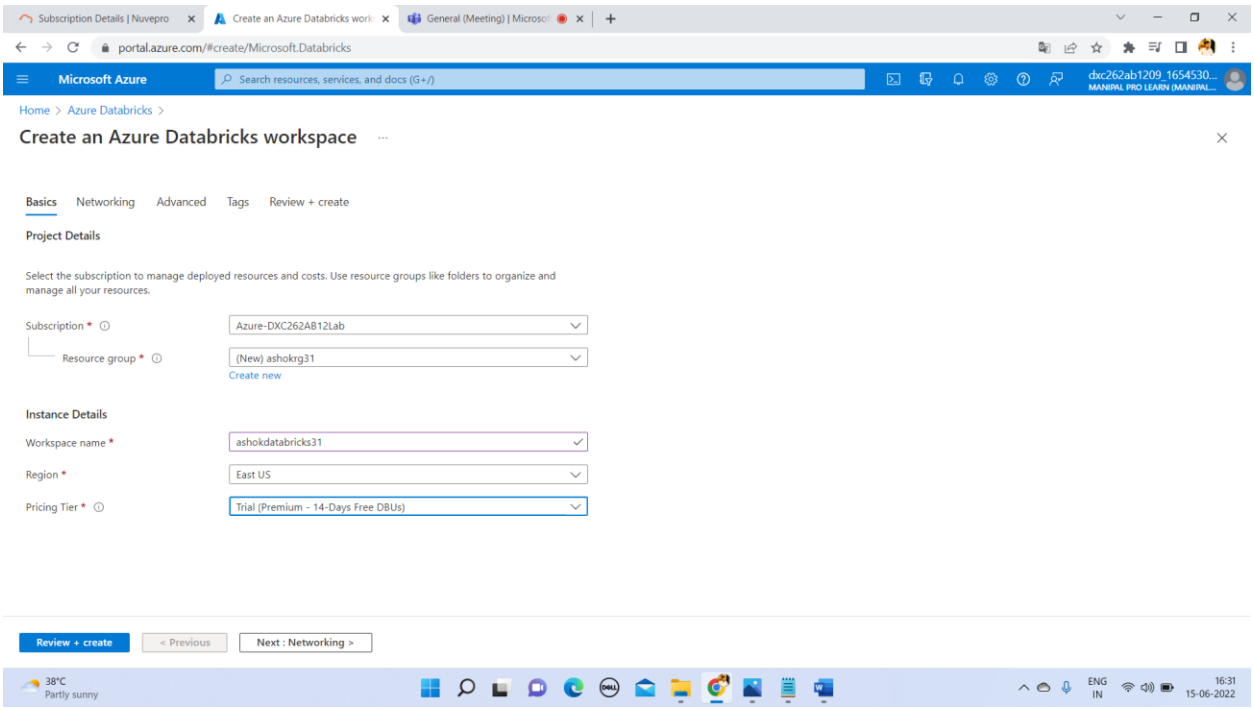
NO. OF CASES: 6

CASE 1.Using archive1.zip file - please ingest data into databricks DBFS path & query the data, display with notebooks accordingly

To Create azure databricks workspace Go to azure databricks on azure portal
https://portal.azure.com/#home



Click on create to create azure databricks workspace


Subscription Details | Nuvepro
Create an Azure Databricks worki
General (Meeting) | Microsof
portal.azure.com/#create/Microsoft.Databricks
Microsoft Azure
Search resources, services, and docs (G+/)
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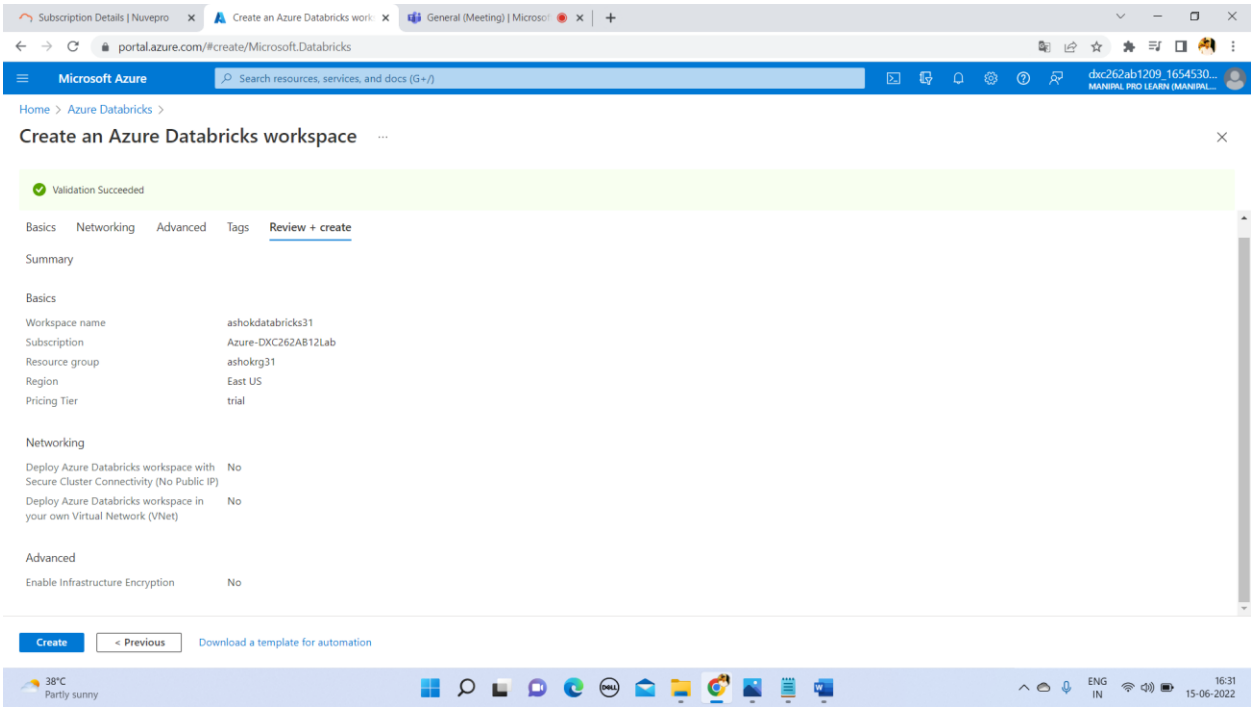
MANIPAL PRO LEARN (MANIPAL...
Home > Azure Databricks >
Create an Azure Databricks workspace
Basics Networking Advanced Tags Review + create
Project Details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.
Subscription *
Azure-DXC262AB12Lab
Resource group *
(New) ashokrg31
Create new
Instance Details
Workspace name *
ashokdatabricks31
Region *
East US
Pricing Tier *
Trial (Premium - 14-Days Free DBUs)
Review + create
< Previous
Next : Networking >
38°C
Partly sunny
ENG
IN
16:31
15-06-2022


Subscription Details | Nuvepro
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Home > Azure Databricks >
Create an Azure Databricks workspace
Validation Succeeded
Basics Networking Advanced Tags Review + create
Summary
Basics
Workspace name ashokdatabricks31
Subscription Azure-DXC262AB12Lab
Resource group ashokrg31
Region East US
Pricing Tier trial
Networking
Deploy Azure Databricks workspace with Secure Cluster Connectivity (No Public IP) No
Deploy Azure Databricks workspace in your own Virtual Network (VNet) No
Advanced
Enable Infrastructure Encryption No
Create
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Download a template for automation
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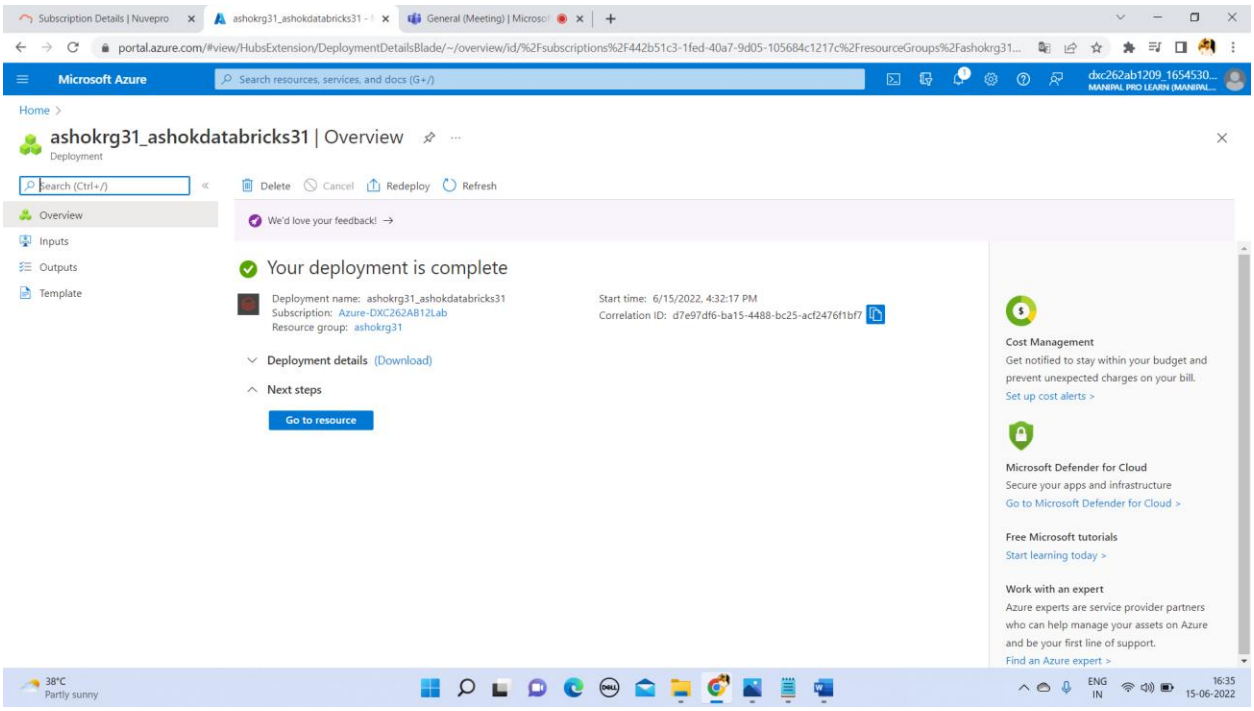
Subscription Details | Nuvepro
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General (Meeting) | Microsof
portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2F442b51c3-1fed-40a7-9d05-105684c1217c%2FresourceGroups%2Fashokrg31...
Microsoft Azure
Search resources, services, and docs (G+/)
dxc262ab1209_1654530...
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Home >
ashokrg31_ashokdatabricks31 | Overview
Deployment
Search (Ctrl+/)
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Inputs
Outputs
Template
Delete
Cancel
Redeploy
Refresh
We'd love your feedback! →
Your deployment is complete
Deployment name: ashokrg31_ashokdatabricks31
Subscription: Azure-DXC262AB12Lab
Resource group: ashokrg31
Start time: 6/15/2022, 4:32:17 PM
Correlation ID: d7e97df6-ba15-4488-bc25-acf2476f1bf7
Deployment details (Download)
Next steps
Go to resource
Cost Management
Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >
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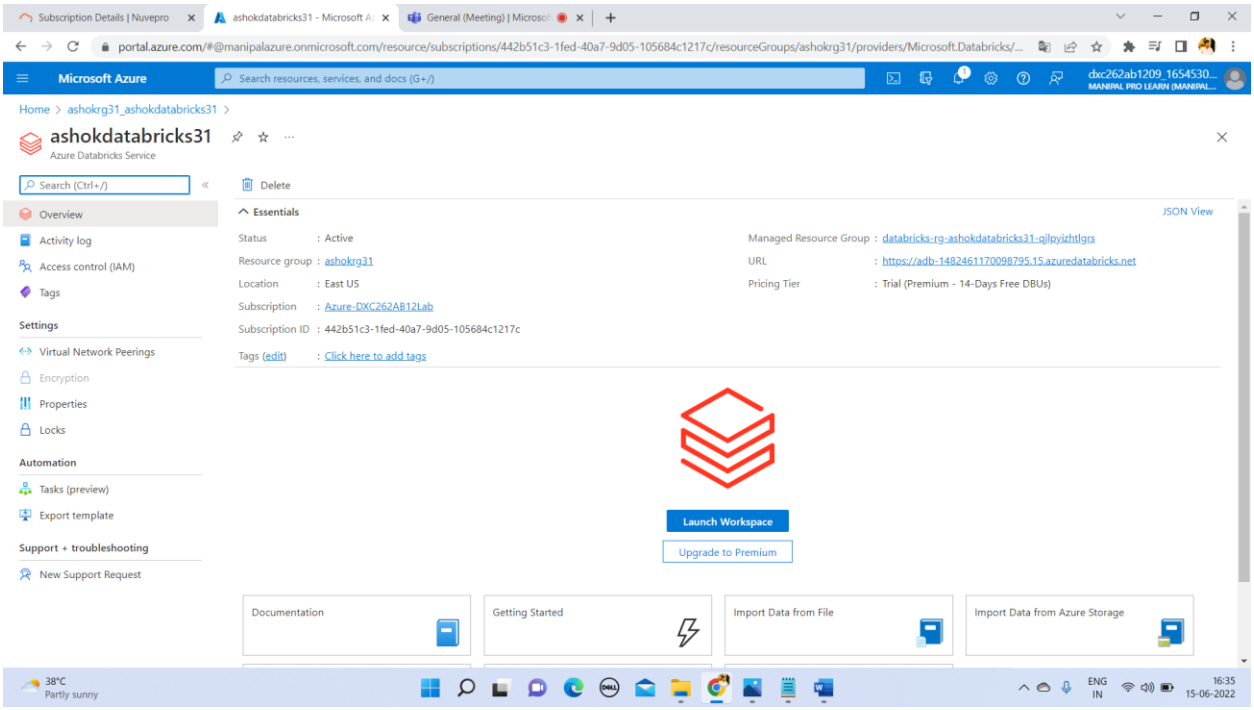
Subscription Details | Nuvepro
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General (Meeting) | Microsof
portal.azure.com/#@manipalazure.onmicrosoft.com/resource/subscriptions/442b51c3-1fed-40a7-9d05-105684c1217c/resourceGroups/ashokrg31/providers/Microsoft.Databricks/...
Microsoft Azure
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MANIPAL PRO LEARN (MANIPAL...
Home > ashokrg31_ashokdatabricks31 >
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Azure Databricks Service
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Tags
Settings
Virtual Network Peerings
Encryption
Properties
Locks
Automation
Tasks (preview)
Export template
Support + troubleshooting
New Support Request
Delete
Essentials
JSON View
Status : Active
Resource group : ashokrg31
Location : East US
Subscription : Azure-DXC262AB12Lab
Subscription ID : 442b51c3-1fed-40a7-9d05-105684c1217c
Tags (edit) : Click here to add tags
Managed Resource Group : databricks-rg-ashokdatabricks31-qiljpyizhtlgrs
URL : https://adb-1482461170098795.15.azuredatabricks.net
Pricing Tier : Trial (Premium - 14-Days Free DBUs)
Launch Workspace
Upgrade to Premium
Documentation
Getting Started
Import Data from File
Import Data from Azure Storage
38°C
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16:35
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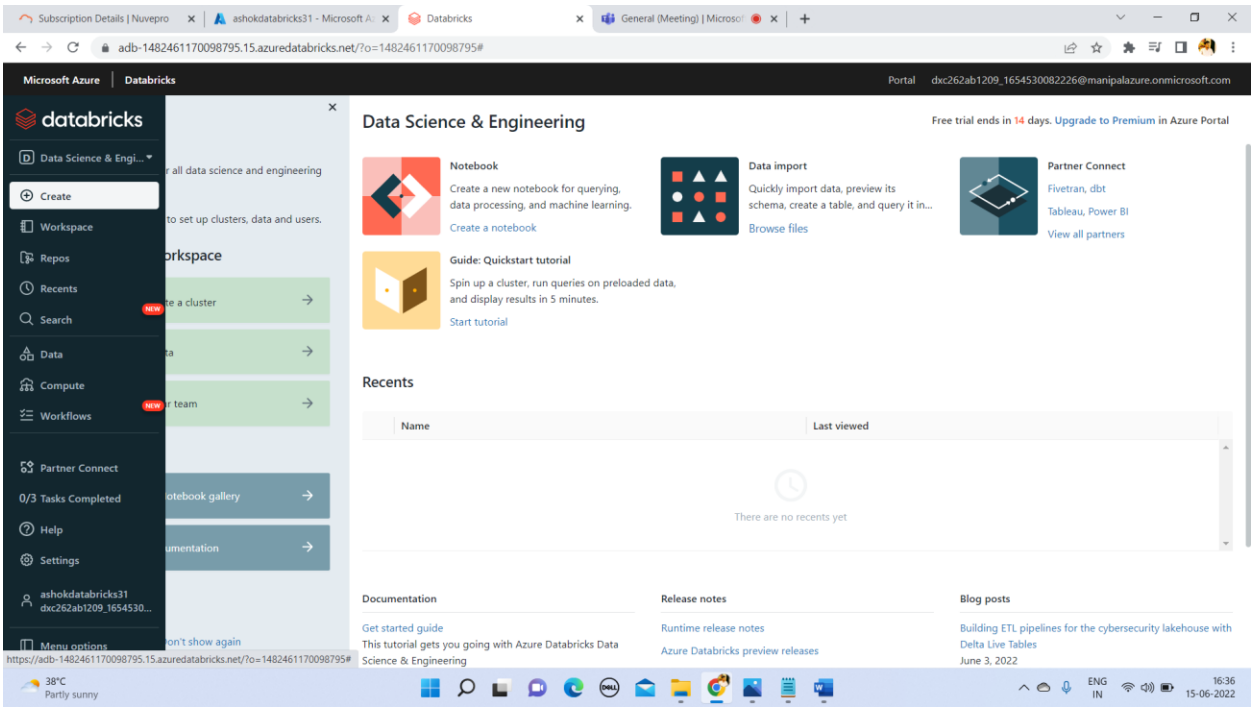
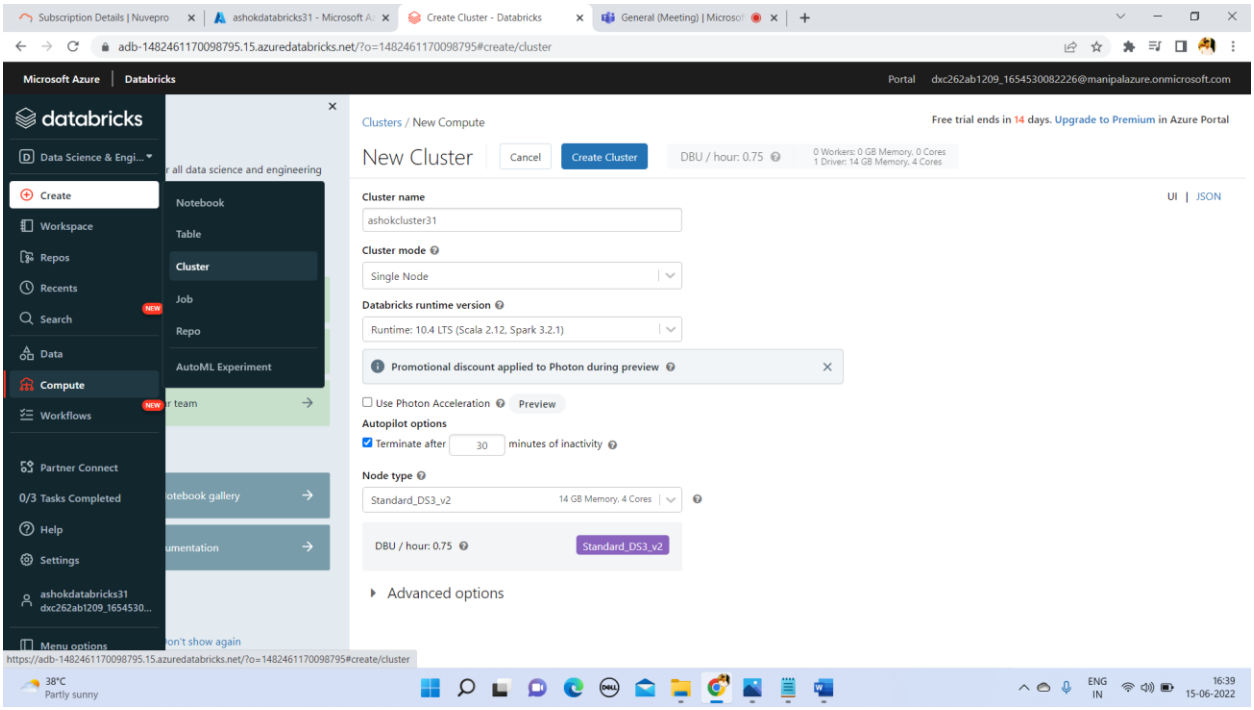
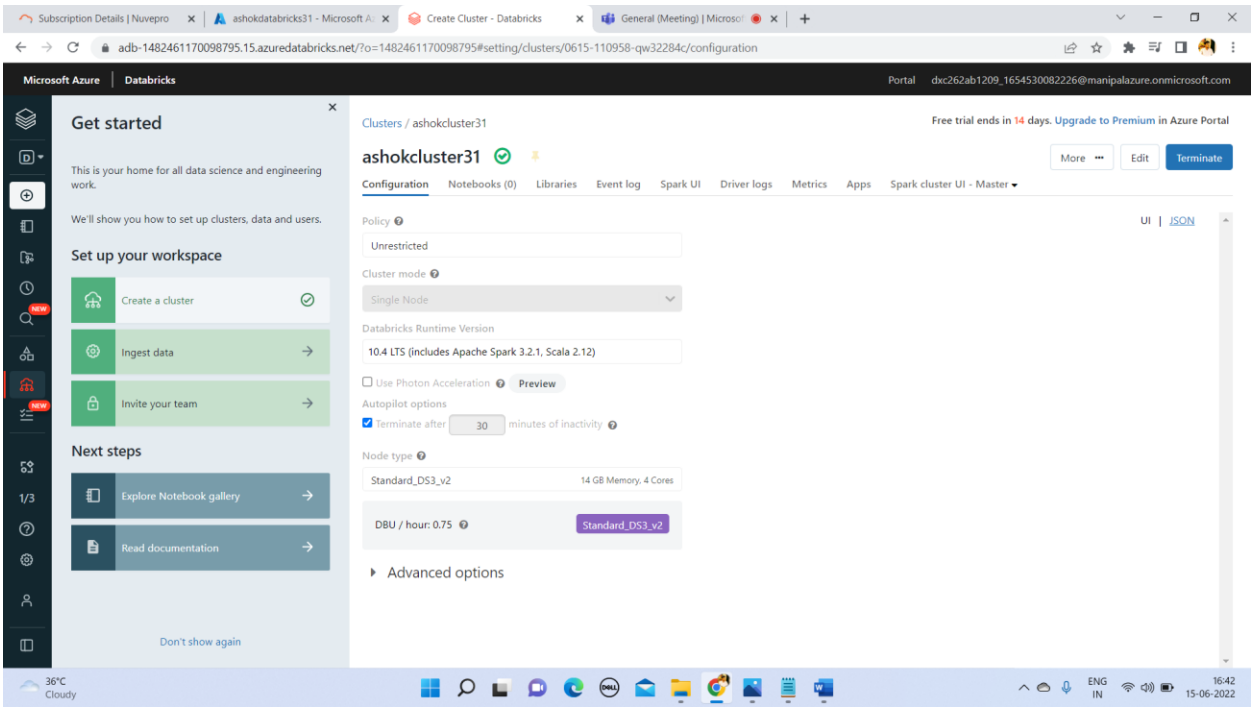


Create new cluster (go to create and click on cluster)




Subscription Details | Nuvepro
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Create Cluster - Databricks
General (Meeting) | Microsof
adb-1482461170098795.15.azuredatabricks.net/?o=1482461170098795#setting/clusters/0615-110958-qw32284c/configuration
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Libraries
Event log
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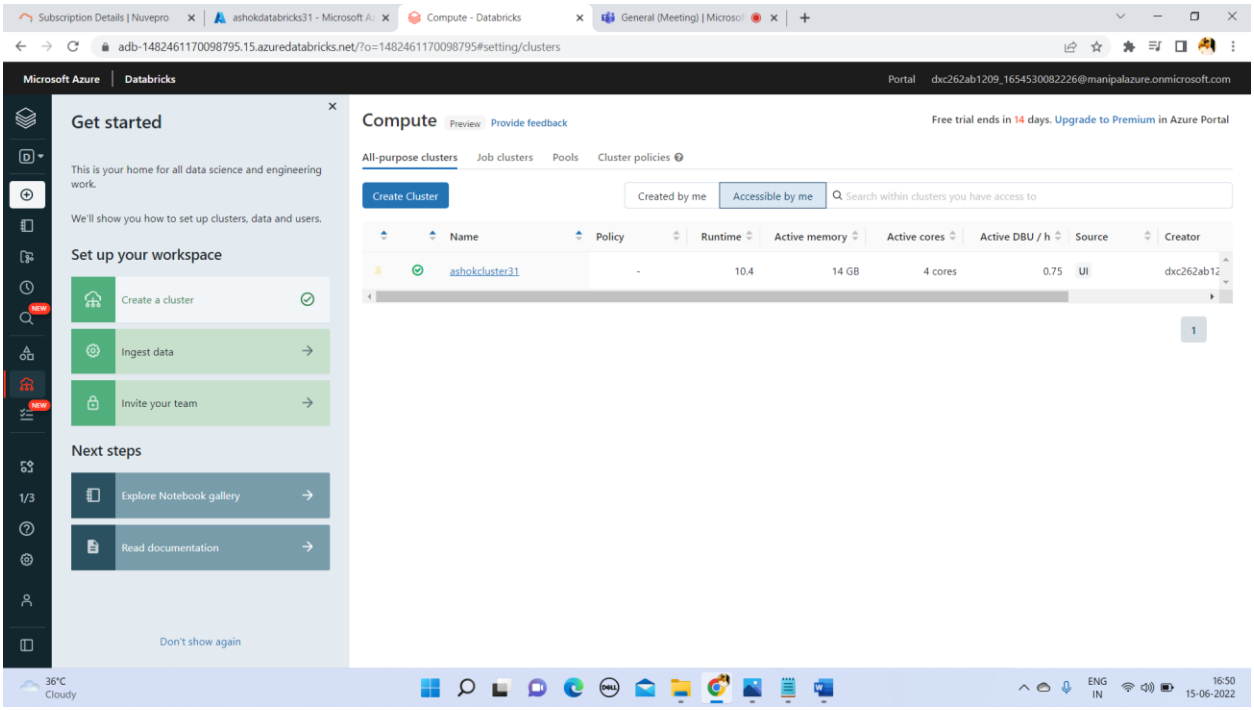
Driver logs
Metrics
Apps
Spark cluster UI - Master
UI | JSON
Policy
Unrestricted
Cluster mode
Single Node
Databricks Runtime Version
10.4 LTS (includes Apache Spark 3.2.1, Scala 2.12)
Use Photon Acceleration
Preview
Autopilot options
Terminate after 30 minutes of inactivity
Node type
Standard_DS3_v2
14 GB Memory, 4 Cores
DBU / hour: 0.75
Standard_DS3_v2
Advanced options
36°C
Cloudy
ENG
IN
16:42
15-06-2022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adb-1482461170098795.15.azuredatabricks.net/?o=1482461170098795#setting/clusters
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Search within clusters you have access to
Name
Policy
Runtime
Active memory
Active cores
Active DBU / h
Source
Creator
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10.4
14 GB
4 cores
0.75
UI
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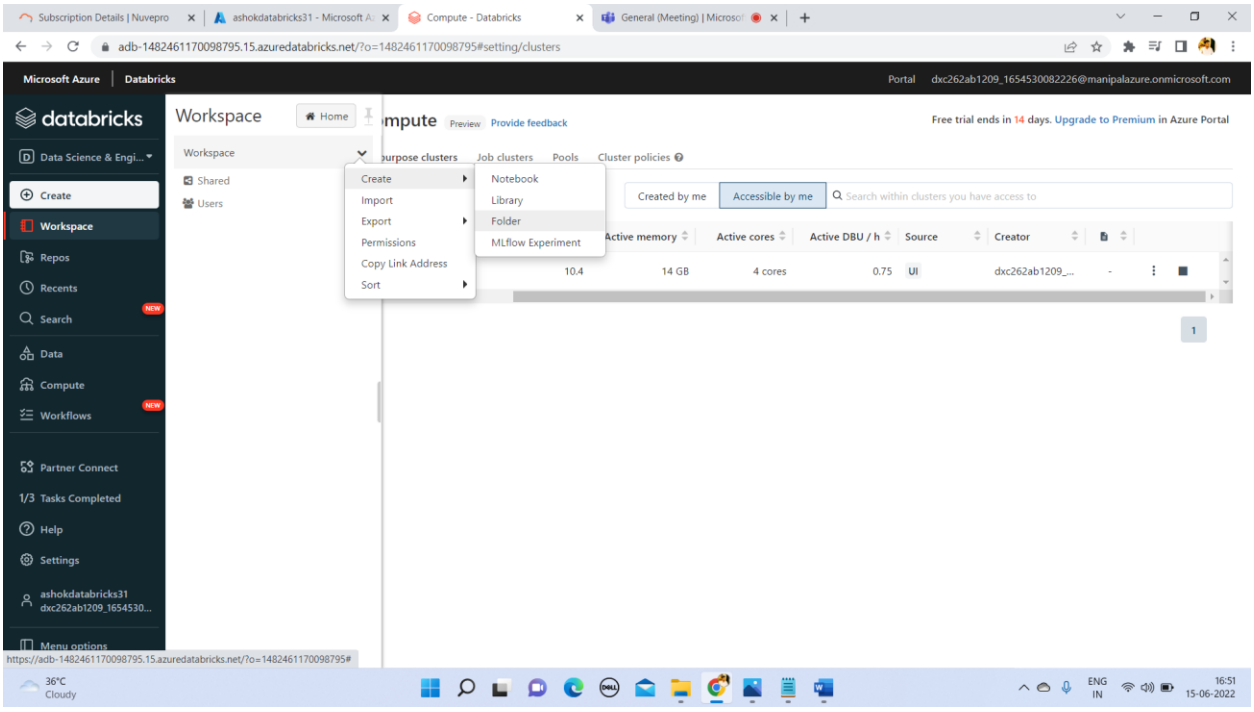
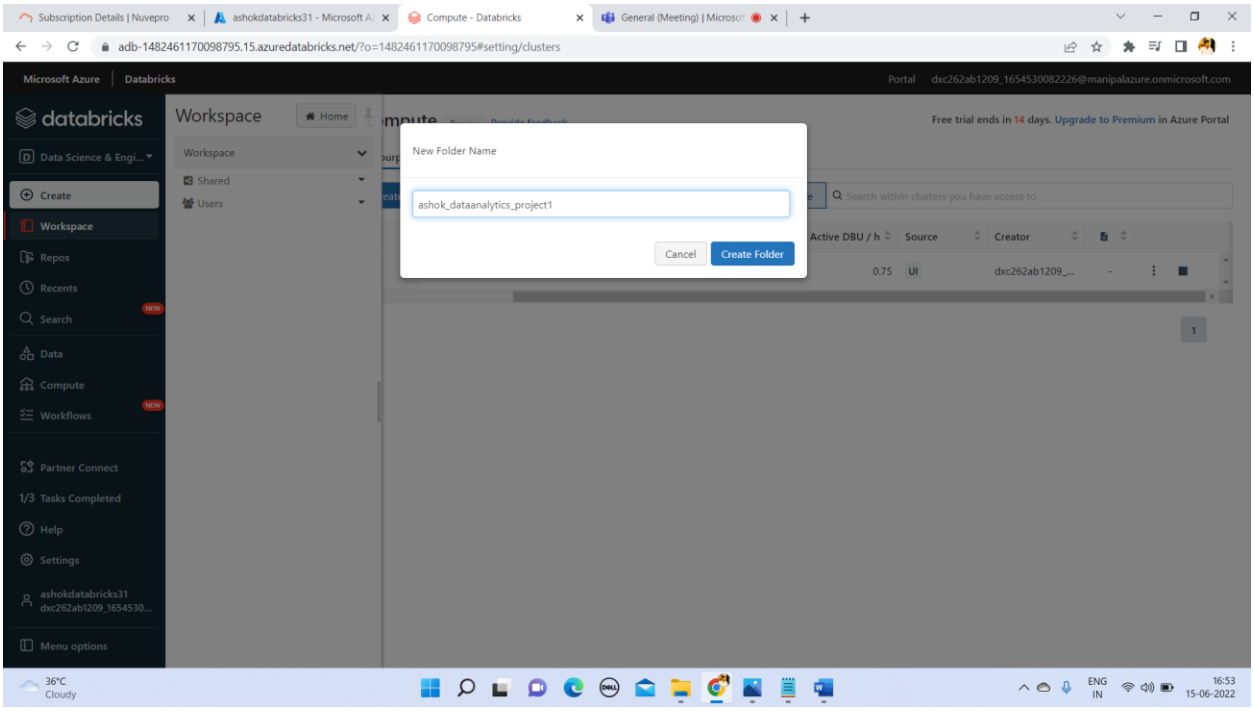
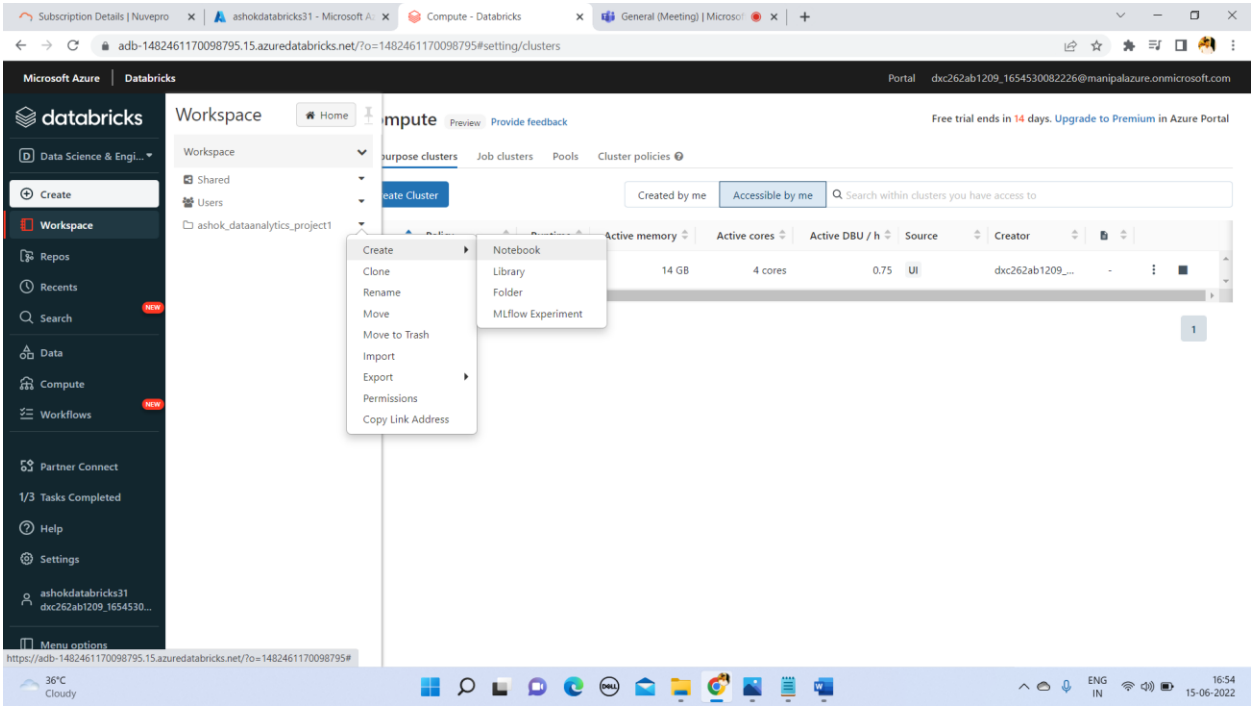
15-06-2022

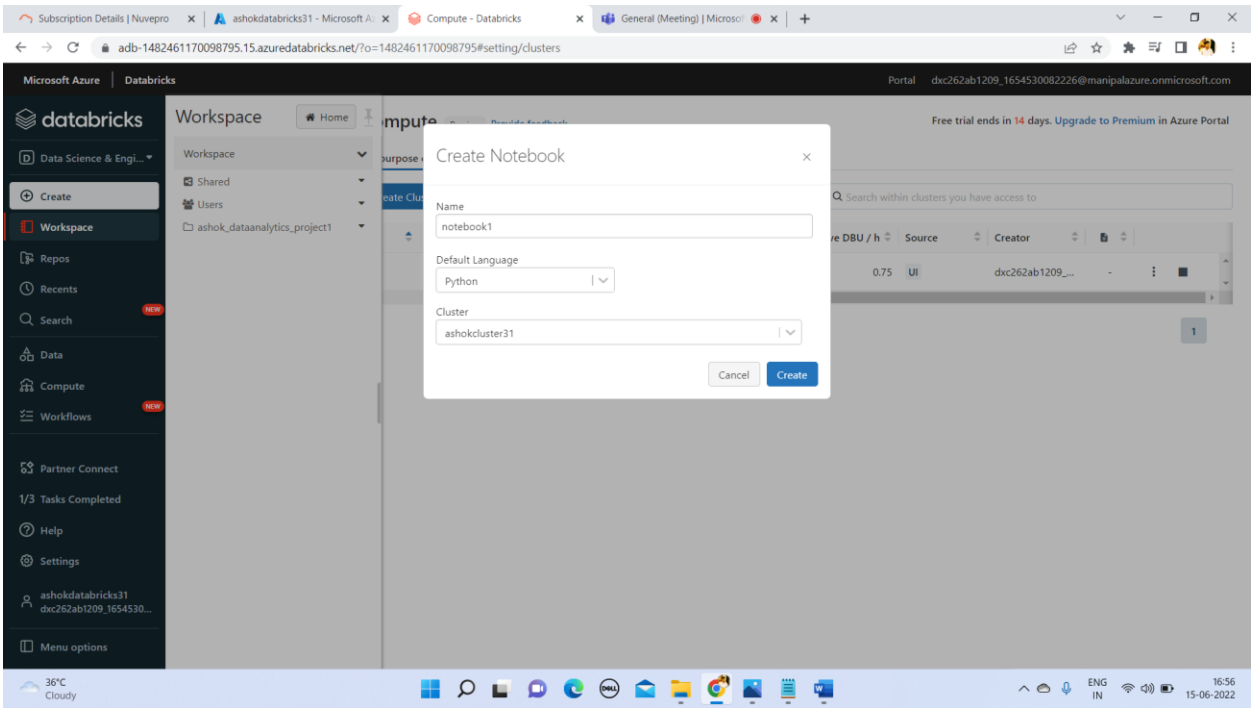
Crate Folder (workspace → create → Folder)

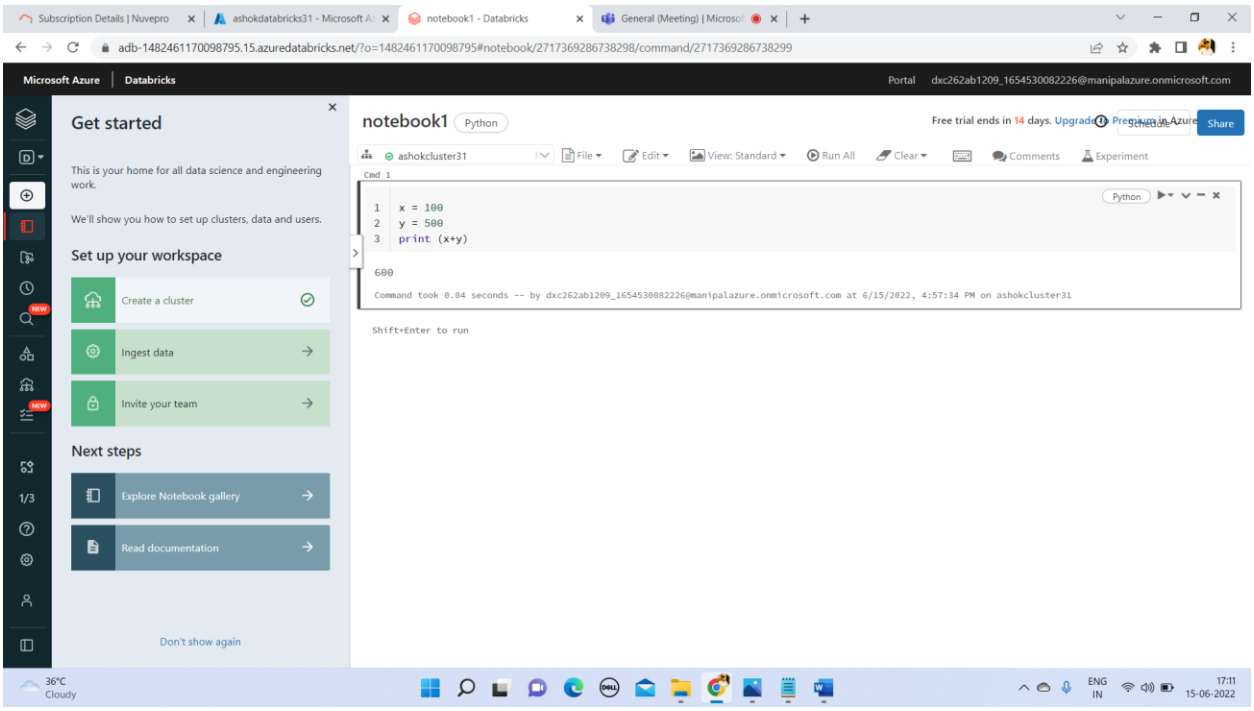




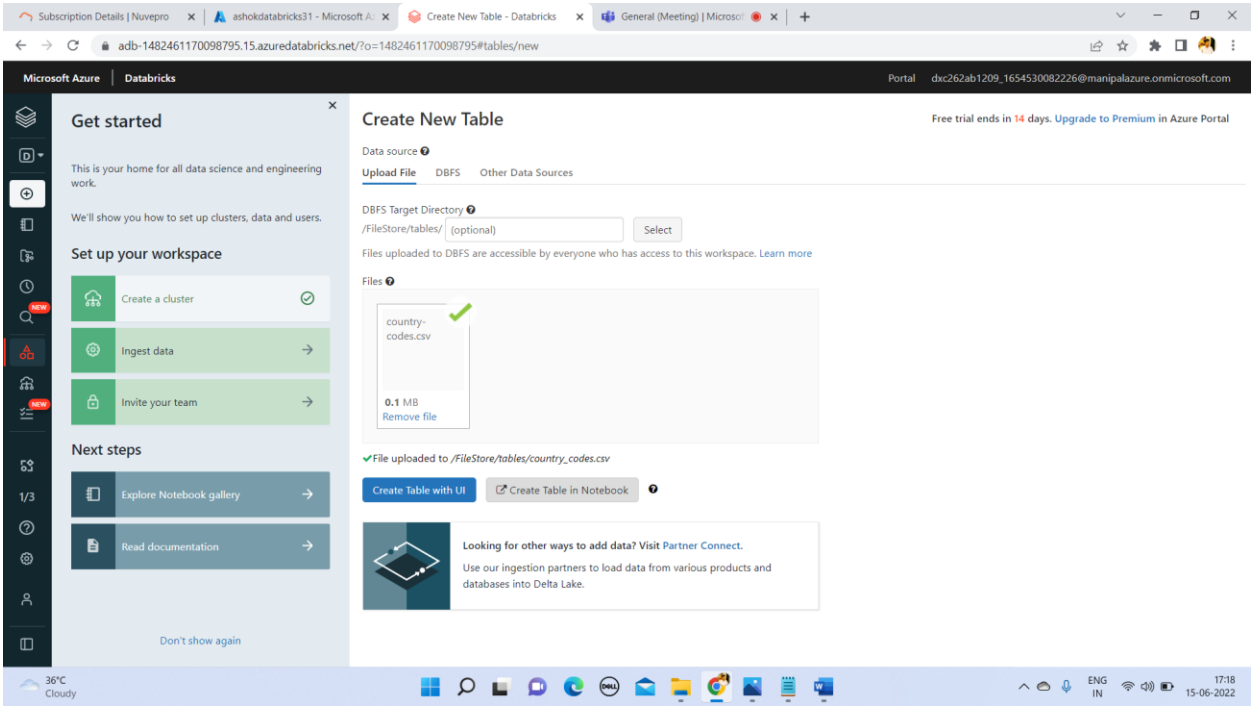
Create Notebook in folder ashok_dataanalytics_project1 (workspace → ashok_dataanalytics_project1 → create → Notebook)

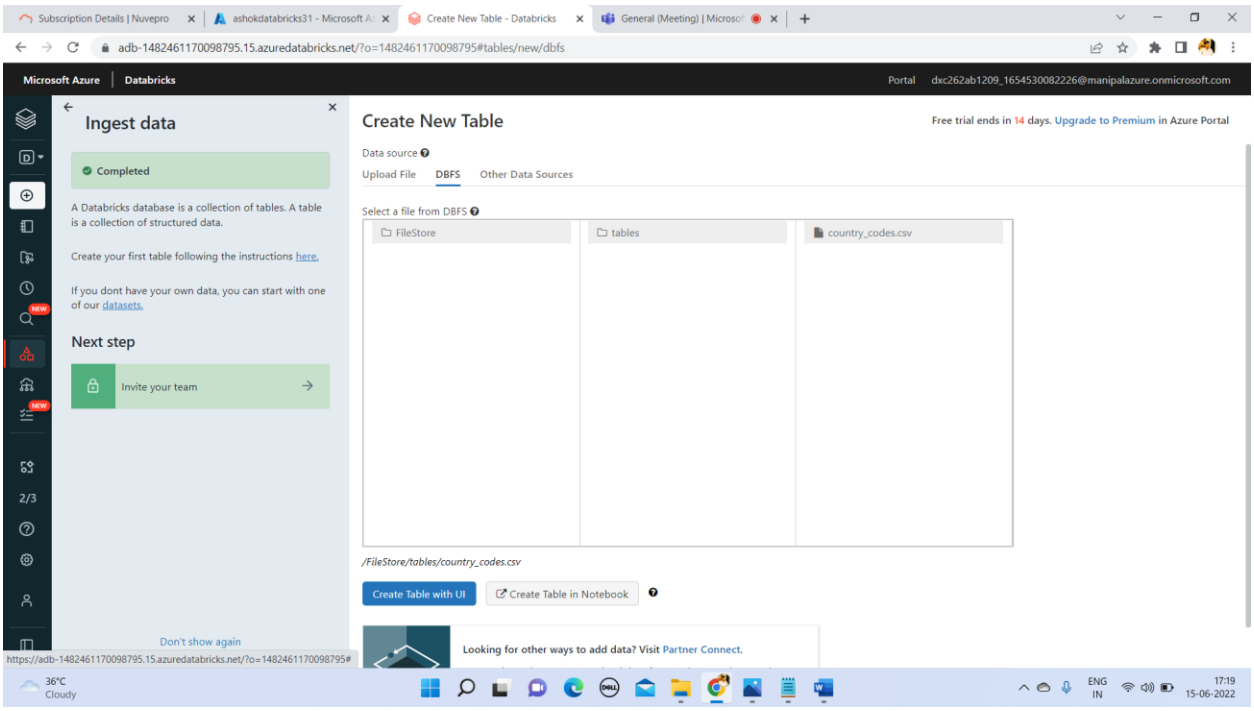






Create table (Data → create table) and upload file from archive1 (country-codes)



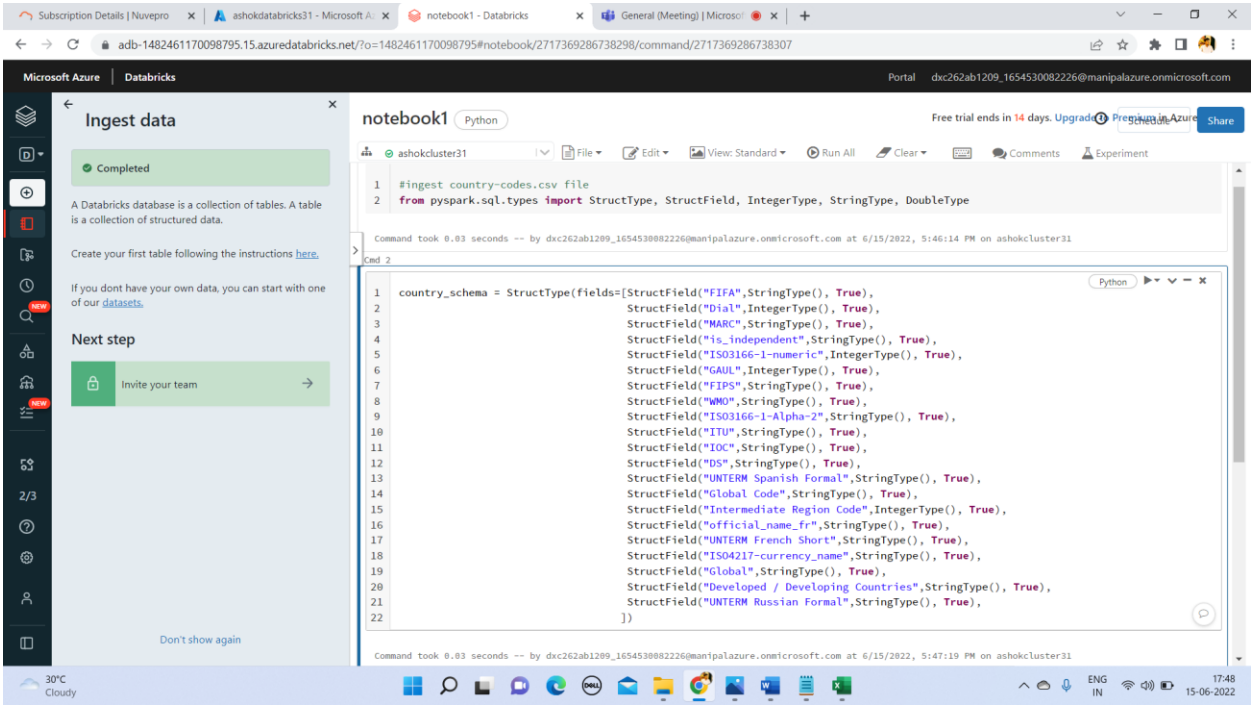


#ingest country-codes.csv file

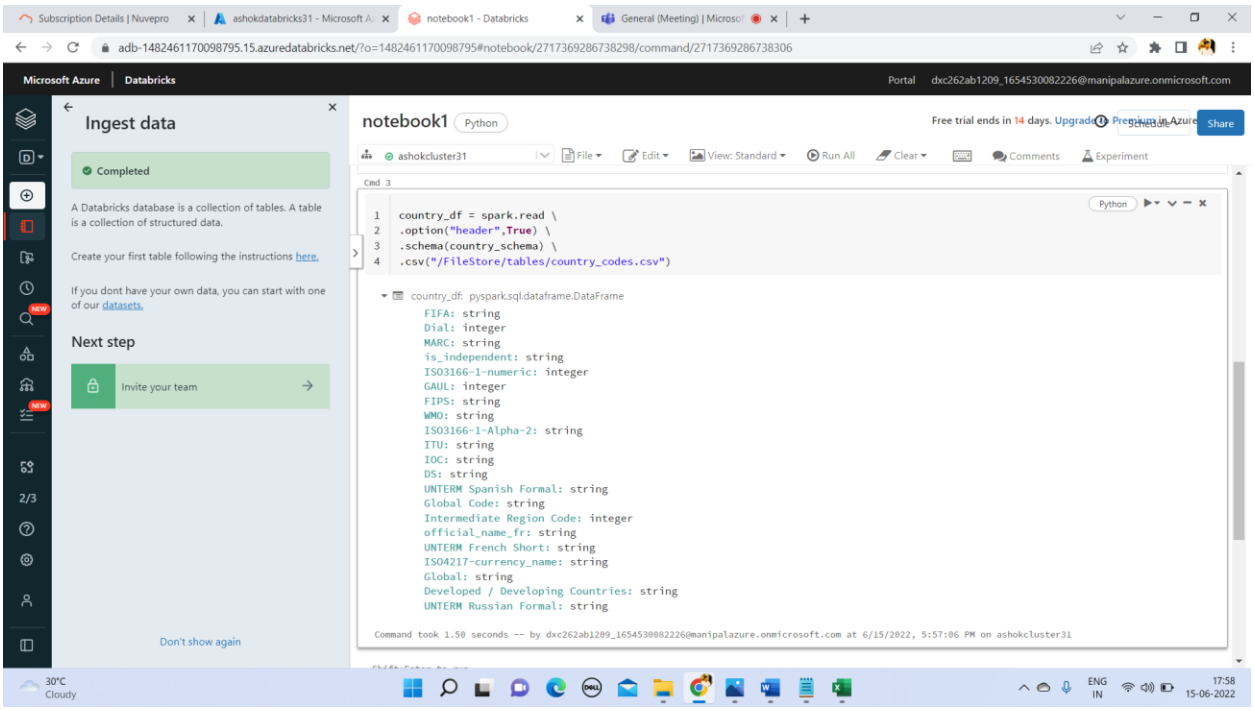
from pyspark.sql.types import StructType, StructField, IntegerType, StringType, DoubleType

```
country_schema = StructType(fields=[StructField("FIFA",StringType(), True),
                                    StructField("Dial",IntegerType(), True),
                                    StructField("MARC",StringType(), True),
                                    StructField("is_independent",StringType(), True),
                                    StructField("ISO3166-1-numeric",IntegerType(), True),
                                    StructField("GAUL",IntegerType(), True),
                                    StructField("FIPS",StringType(), True),
                                    StructField("WMO",StringType(), True),
                                    StructField("ISO3166-1-Alpha-2",StringType(), True),
                                    StructField("ITU",StringType(), True),
                                    StructField("IOC",StringType(), True),
                                    StructField("DS",StringType(), True),
                                    StructField("UNTERM Spanish Formal",StringType(), True),
                                    StructField("Global Code",StringType(), True),
```

```
StructField("Intermediate Region Code",IntegerType(), True),
StructField("official_name_fr",StringType(), True),
StructField("UNTERM French Short",StringType(), True),
StructField("ISO4217-currency_name",StringType(), True),
StructField("Global",StringType(), True),
StructField("Developed / Developing Countries",StringType(), True),
StructField("UNTERM Russian Formal",StringType(), True),
])
```



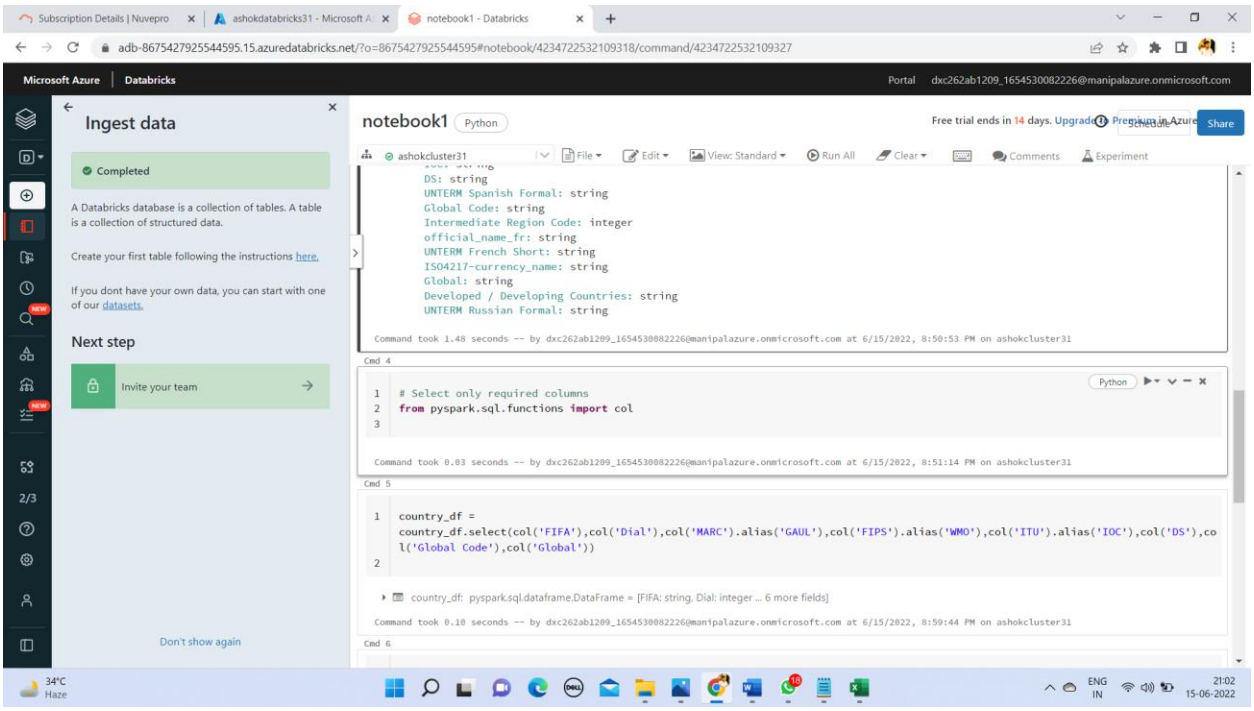

```
country_df = spark.read \
.option("header",True) \
.schema(country_schema) \
.csv("/FileStore/tables/country_codes.csv")
```



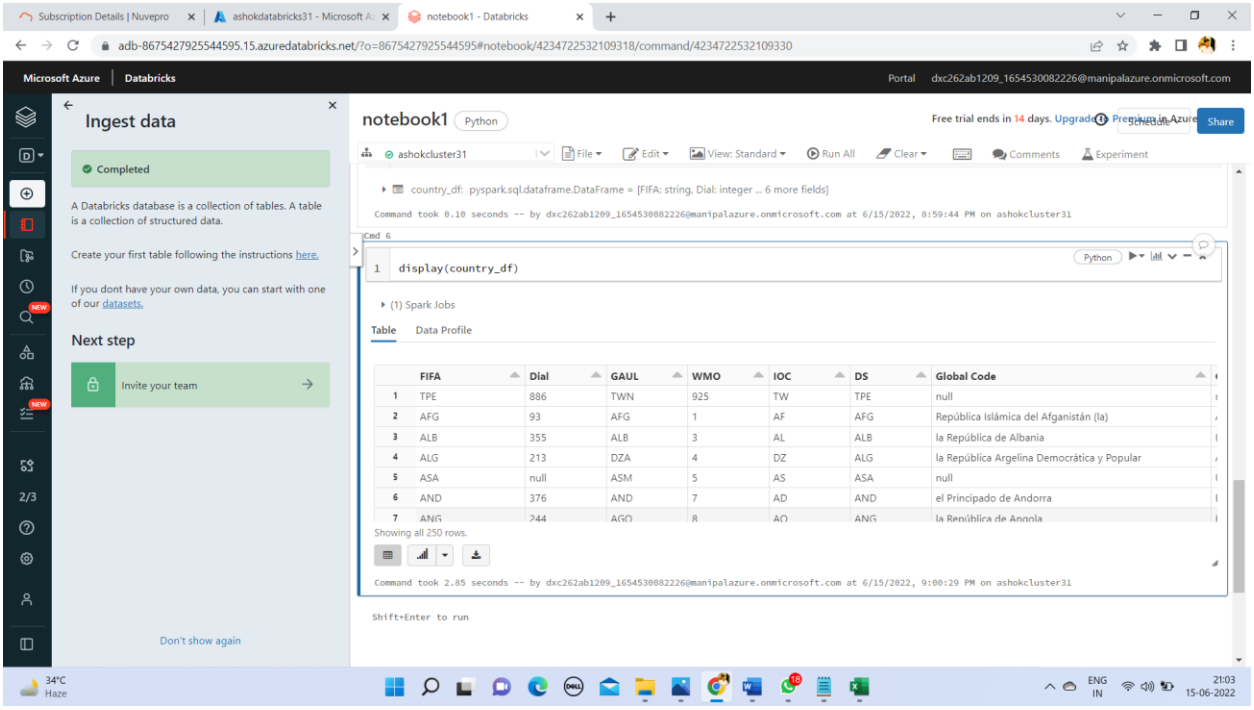

```
# Select only required columns

from pyspark.sql.functions import col


country_df =
country_df.select(col('FIFA'),col('Dial'),col('MARC').alias('GAUL'),col('FIPS').alias('WMO'),col('ITU').alias('IOC'),col('DS'),col('Global Code'),col('Global'))\
```



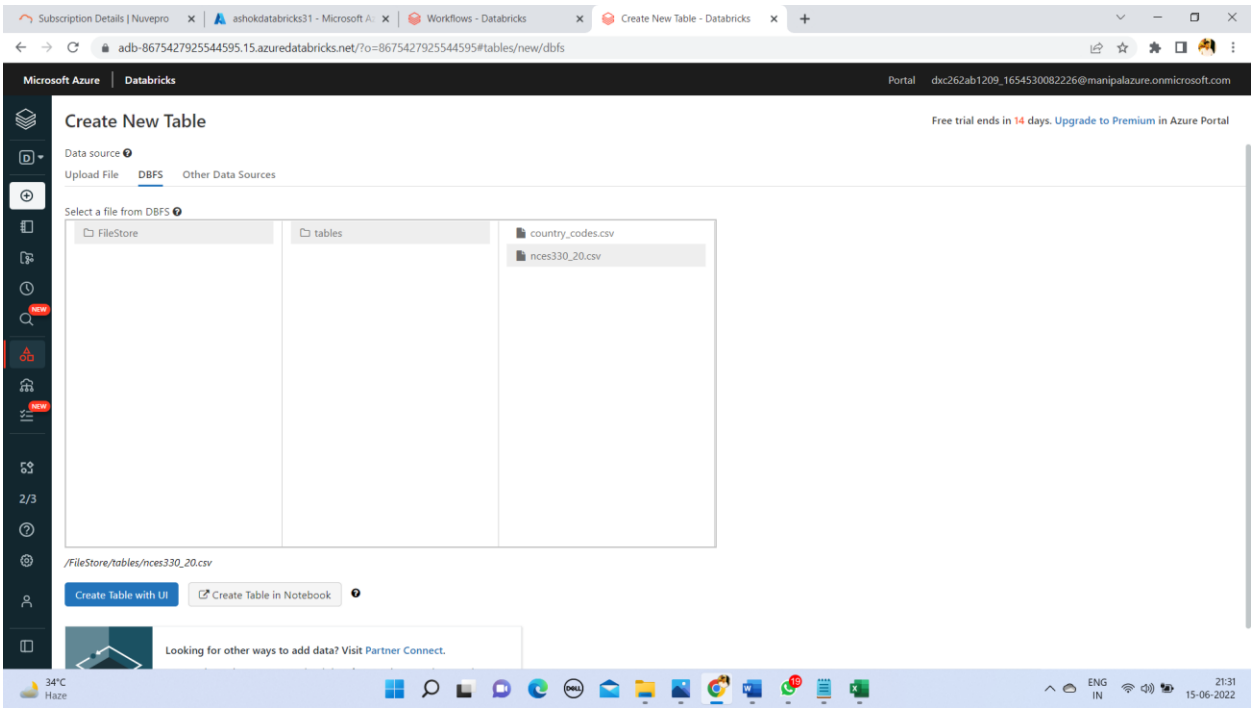
display(country_df)



CASE 2.Using archive2.zip file - please ingest data into databricks DBFS path & query the data display with notebooks accordingly

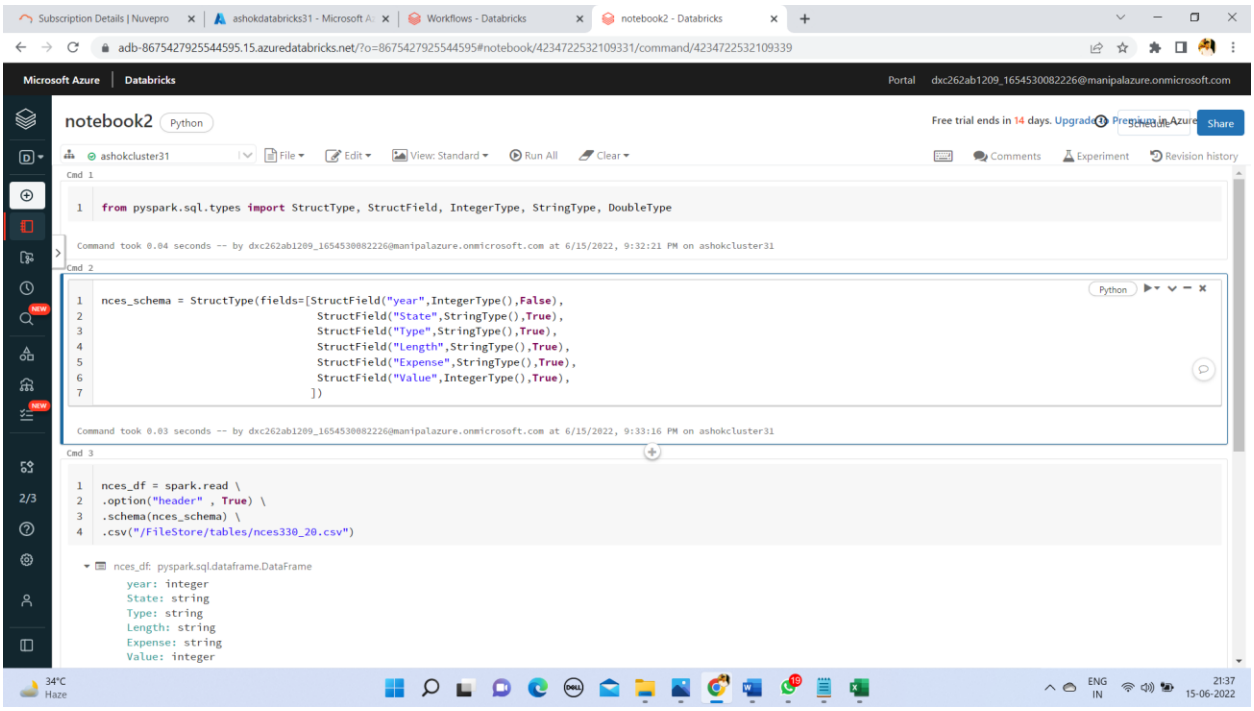
Create Notebook

Upload the file from archive2 **nces330.20.csv** in upload file section at create table




```
from pyspark.sql.types import StructType, StructField, IntegerType, StringType, DoubleType


nces_schema = StructType(fields=[StructField("year",IntegerType(),False),
                                 StructField("State",StringType(),True),
                                 StructField("Type",StringType(),True),
                                 StructField("Length",StringType(),True),
                                 StructField("Expense",StringType(),True),
                                 StructField("Value",IntegerType(),True),
                                ])
```



**nces_df = spark.read **

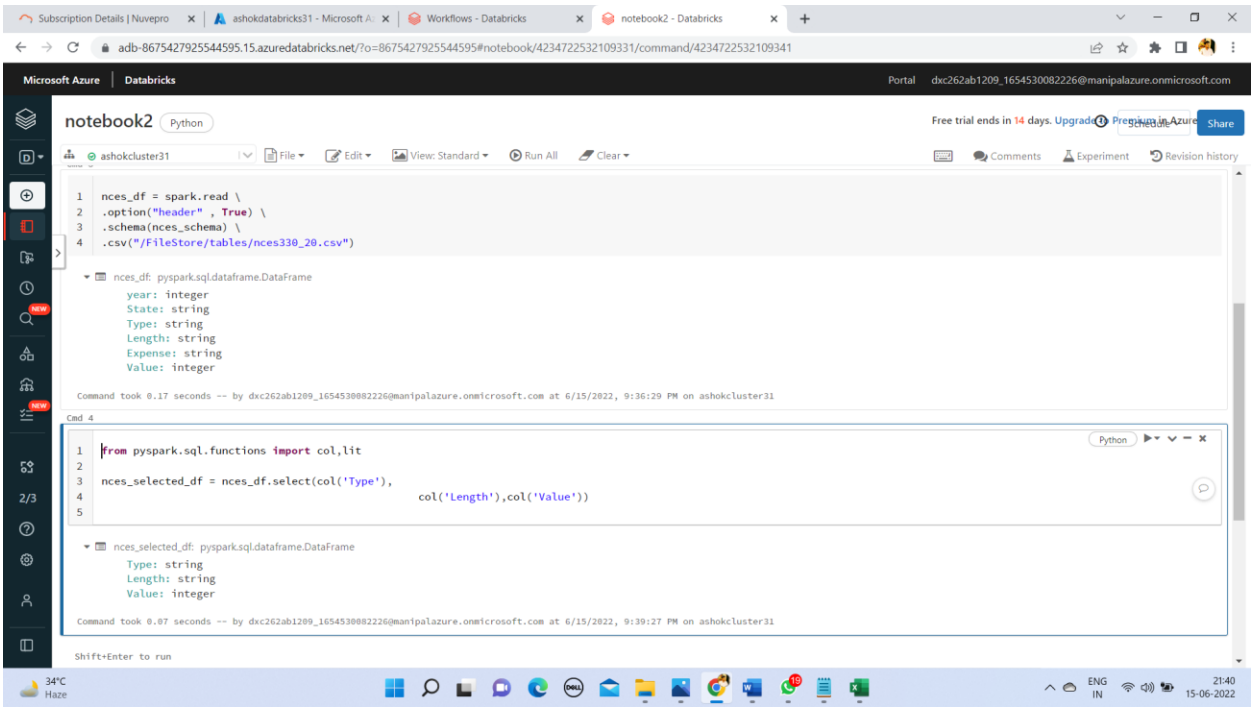
**.option("header" , True) **

**.schema(nces_schema) **

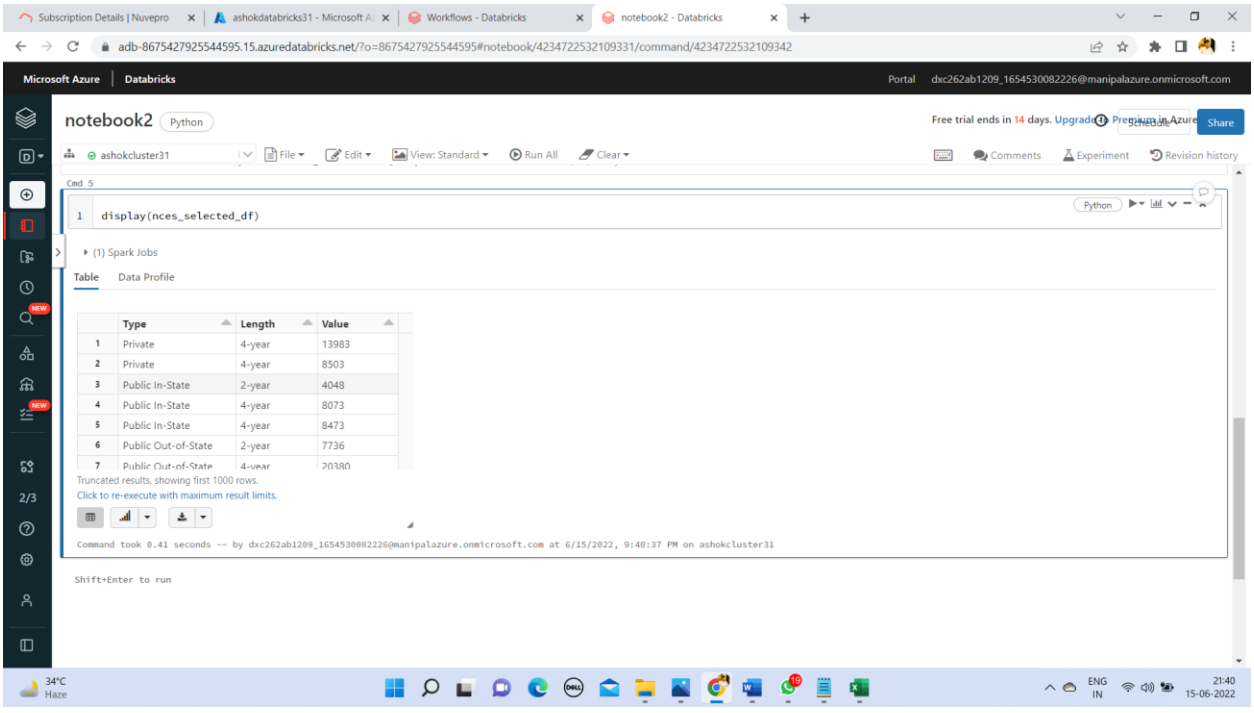
.csv("/FileStore/tables/nces330_20.csv")

from pyspark.sql.functions import col

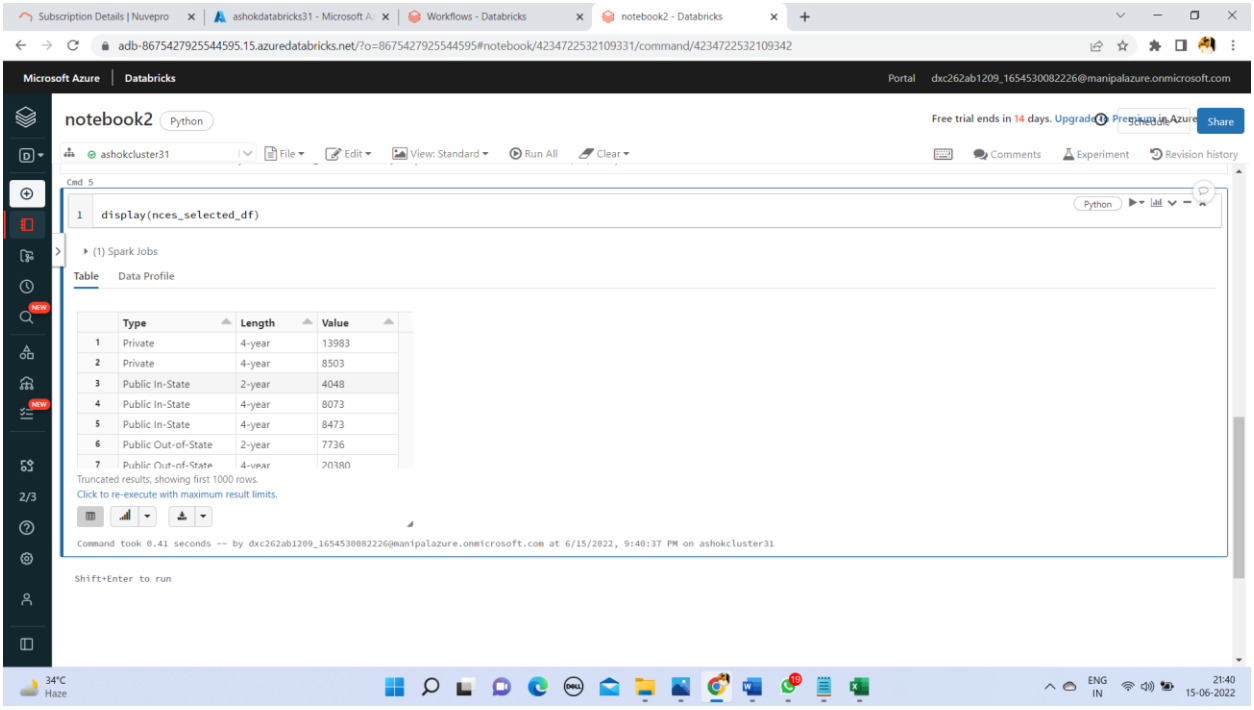
nces_selected_df = nces_df.select(col('Type'), col('Length'),col('Value'))



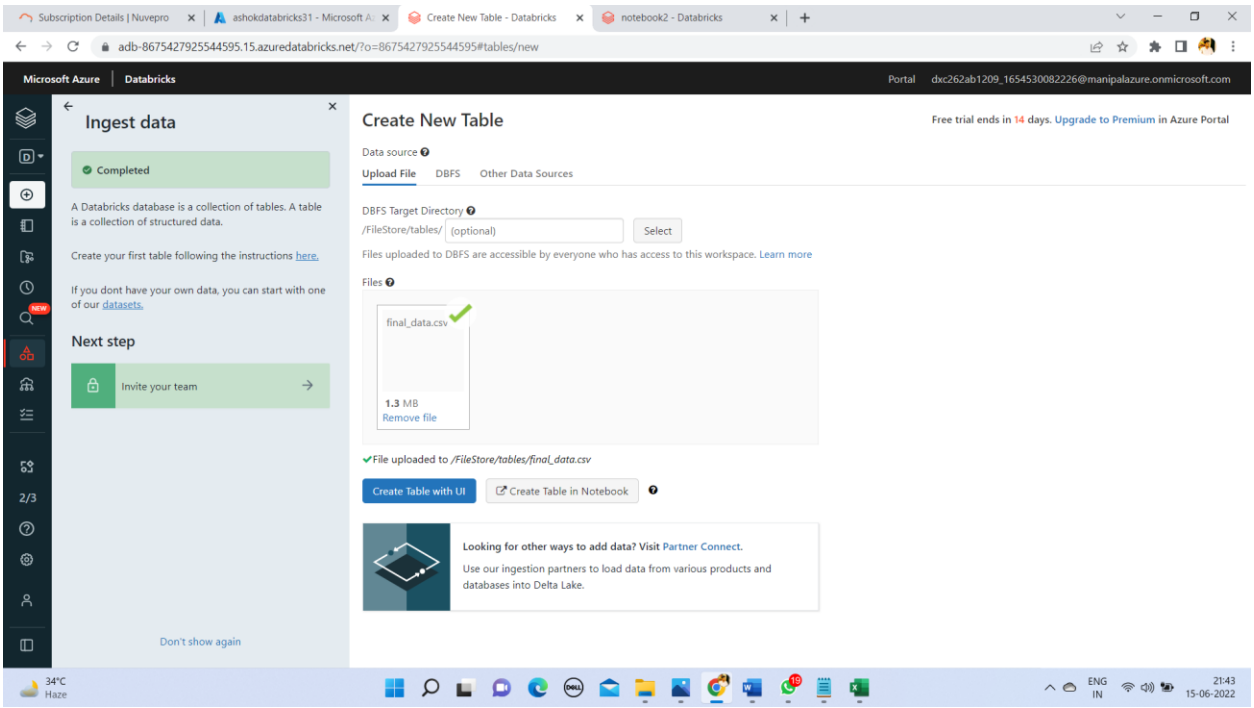
display(nces_selected_df)

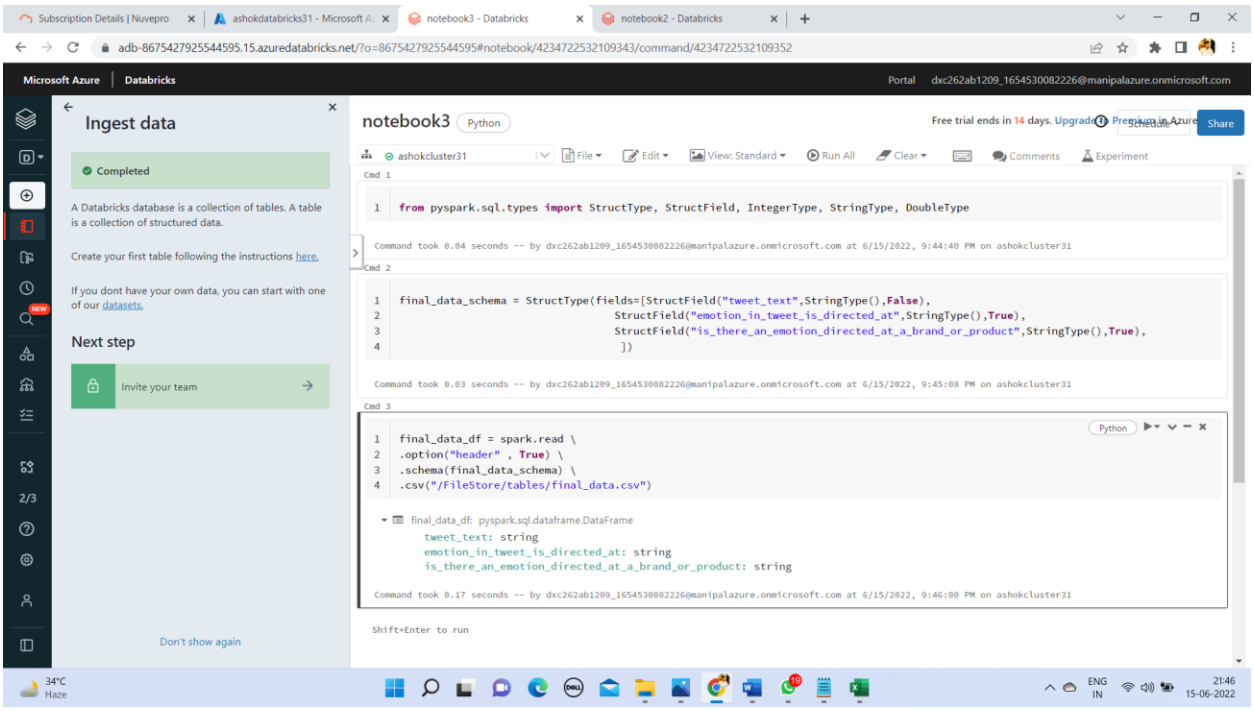


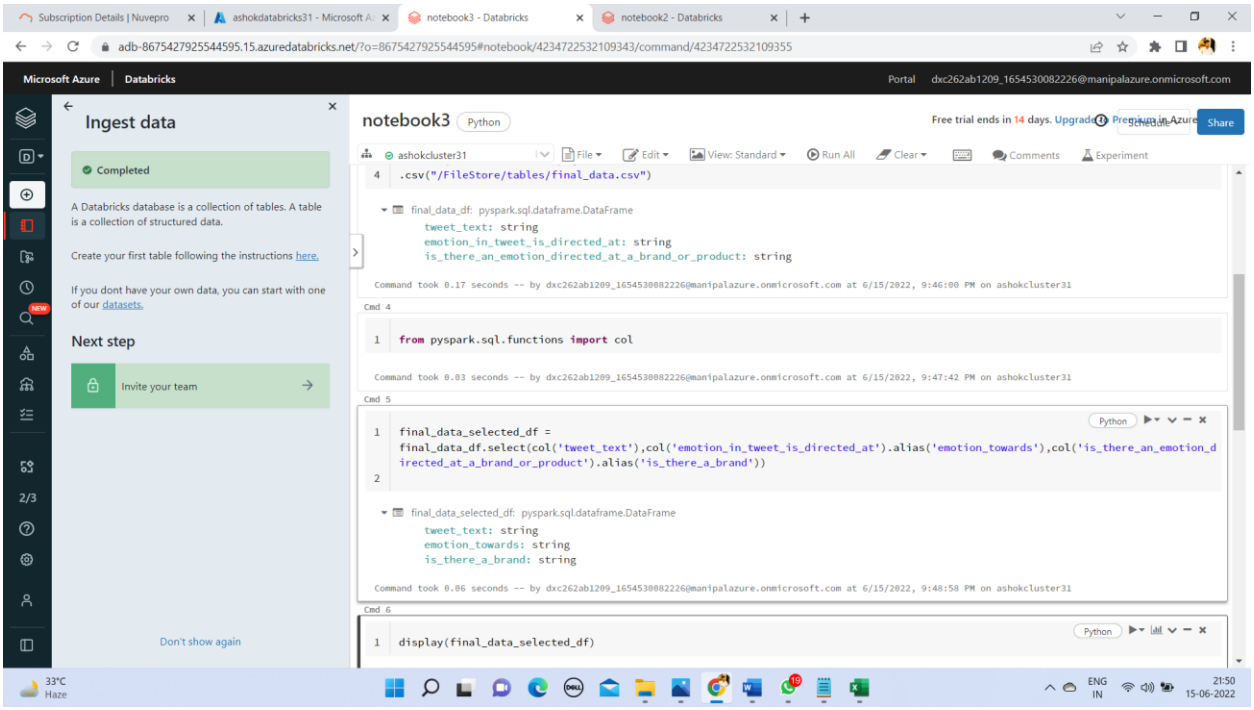
CASE 3.Using archive3.zip file - please ingest data into databricks DBFS path & query the data display with notebooks accordingly

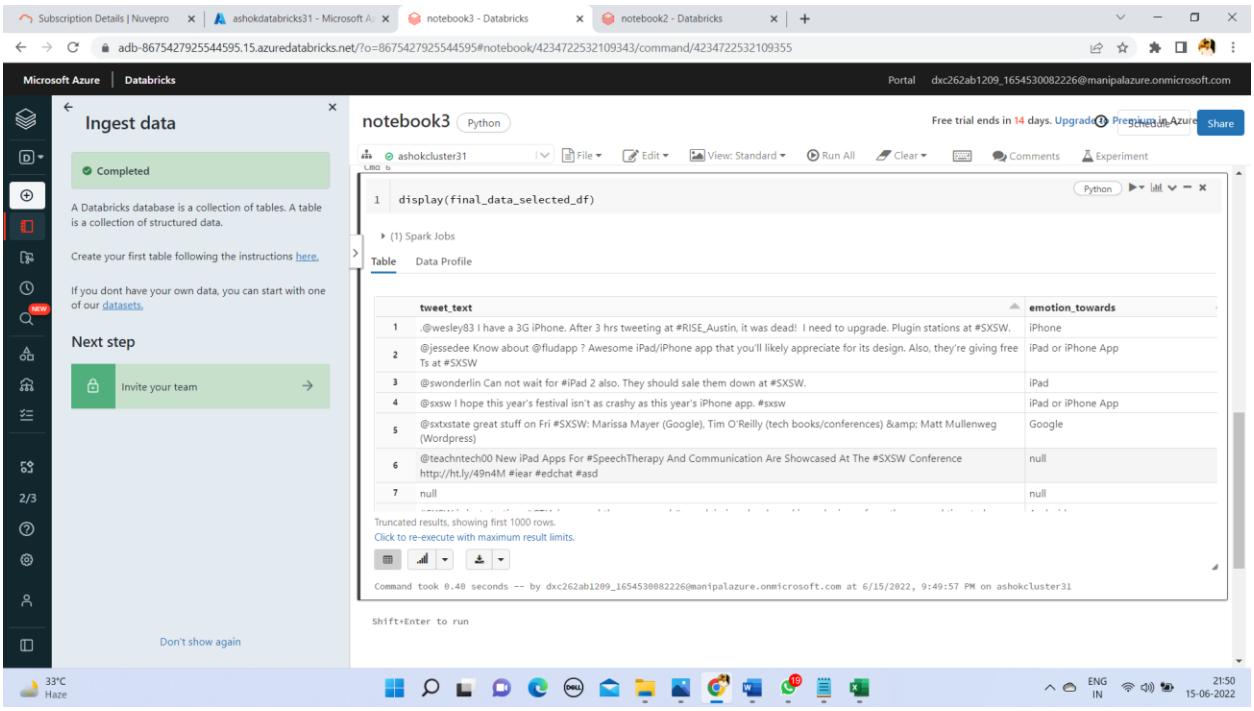


Upload file **final_data.csv**

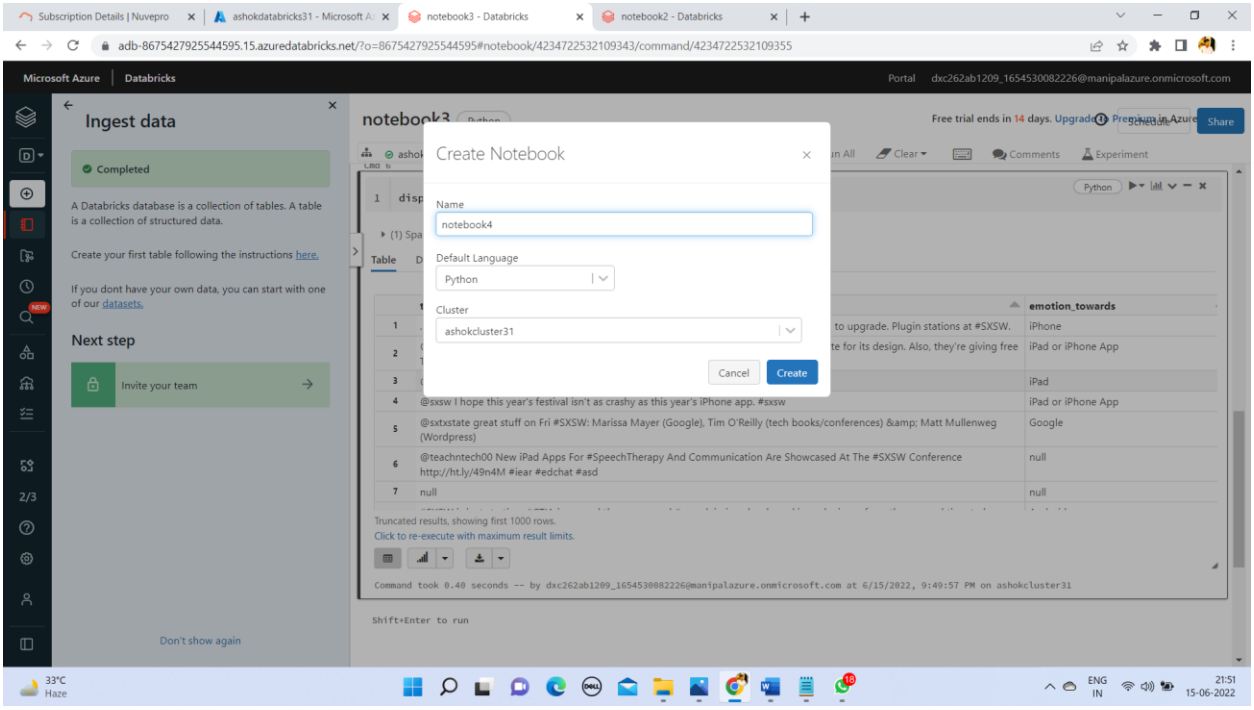



Subscription Details | Nuvepro
ashokdatabricks31 - Microsoft A
notebook3 - Databricks
notebook2 - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#notebook/4234722532109343/command/4234722532109352
Microsoft Azure | Databricks
Portal dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com
Ingest data
Completed
A Databricks database is a collection of tables. A table is a collection of structured data.
Create your first table following the instructions here.
If you dont have your own data, you can start with one of our datasets.
Next step
Invite your team
Don't show again
notebook3 Python
Free trial ends in 14 days. Upgrade Premium in Azure
Share
ashokcluster31
File Edit View: Standard Run All Clear Comments Experiment
Cmd 1
from pyspark.sql.types import StructType, StructField, IntegerType, StringType, DoubleType
Command took 0.04 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 9:44:40 PM on ashokcluster31
Cmd 2
final_data_schema = StructType(fields=[StructField("tweet_text",StringType(),False),
StructField("emotion_in_tweet_is_directed_at",StringType(),True),
StructField("is_there_an_emotion_directed_at_a_brand_or_product",StringType(),True),
])
Command took 0.03 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 9:45:08 PM on ashokcluster31
Cmd 3
final_data_df = spark.read \
.option("header" , True) \
.schema(final_data_schema) \
.csv("/FileStore/tables/final_data.csv")
final_data_df: pyspark.sql.dataframe.DataFrame
tweet_text: string
emotion_in_tweet_is_directed_at: string
is_there_an_emotion_directed_at_a_brand_or_product: string
Command took 0.17 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 9:46:00 PM on ashokcluster31
Shift+Enter to run
34°C Haze
ENG IN
21:46
15-06-2022

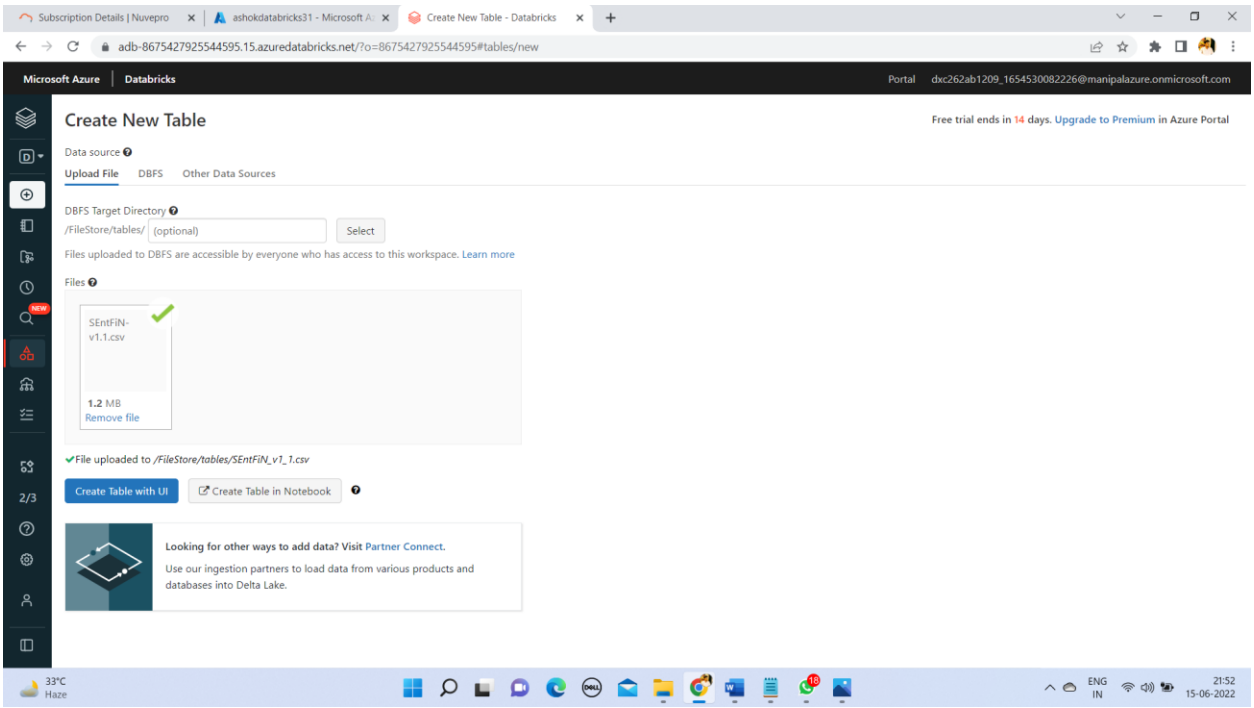

Subscription Details | Nuvepro
ashokdatabricks31 - Microsoft A
notebook3 - Databricks
notebook2 - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#notebook/4234722532109343/command/4234722532109355
Microsoft Azure | Databricks
Portal dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com
Ingest data
Completed
A Databricks database is a collection of tables. A table is a collection of structured data.
Create your first table following the instructions here.
If you dont have your own data, you can start with one of our datasets.
Next step
Invite your team
Don't show again
notebook3 Python
Free trial ends in 14 days. Upgrade Premium in Azure
Share
ashokcluster31
File Edit View: Standard Run All Clear Comments Experiment
.csv("/FileStore/tables/final_data.csv")
final_data_df: pyspark.sql.dataframe.DataFrame
tweet_text: string
emotion_in_tweet_is_directed_at: string
is_there_an_emotion_directed_at_a_brand_or_product: string
Command took 0.17 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 9:46:00 PM on ashokcluster31
Cmd 4
from pyspark.sql.functions import col
Command took 0.03 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 9:47:42 PM on ashokcluster31
Cmd 5
final_data_selected_df =
final_data_df.select(col('tweet_text'),col('emotion_in_tweet_is_directed_at').alias('emotion_towards'),col('is_there_an_emotion_directed_at_a_brand_or_product').alias('is_there_a_brand'))
final_data_selected_df: pyspark.sql.dataframe.DataFrame
tweet_text: string
emotion_towards: string
is_there_a_brand: string
Command took 0.06 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 9:48:58 PM on ashokcluster31
Cmd 6
display(final_data_selected_df)
33°C Haze
ENG IN
21:50
15-06-2022

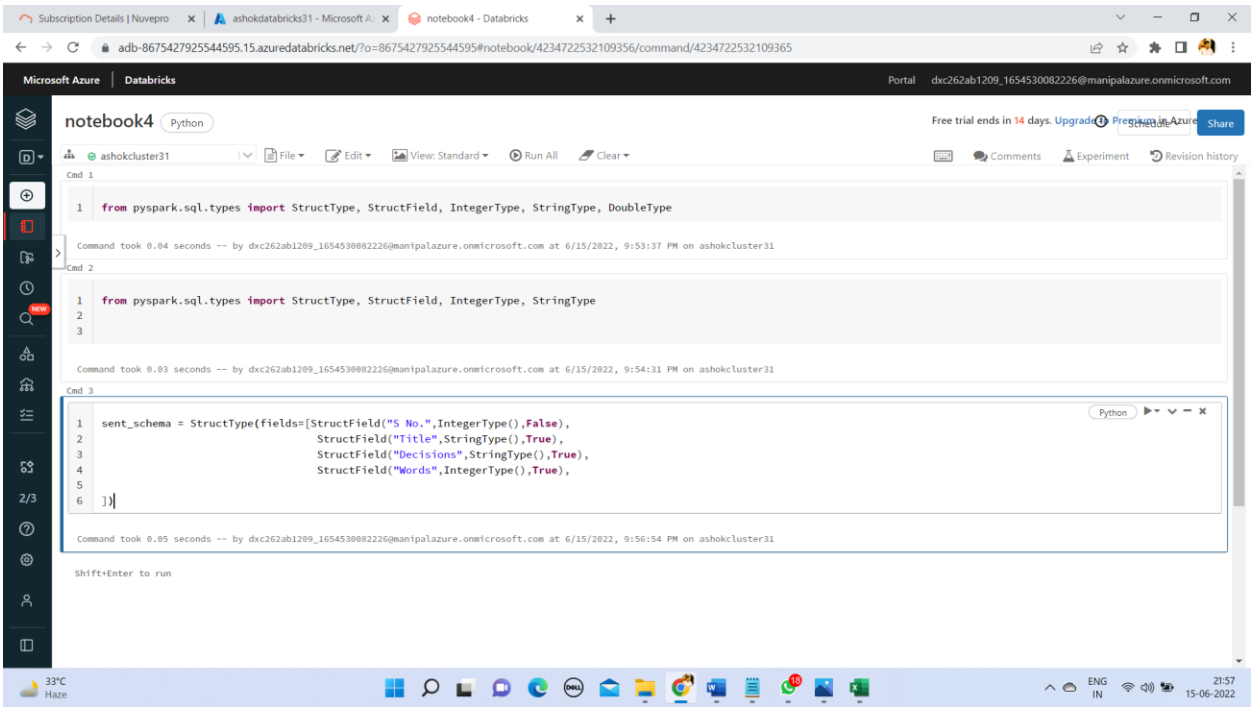

Subscription Details | Nuvepro
ashokdatabricks31 - Microsoft A
notebook3 - Databricks
notebook2 - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#notebook/4234722532109343/command/4234722532109355
Microsoft Azure | Databricks
Portal dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com
Ingest data
Completed
A Databricks database is a collection of tables. A table is a collection of structured data.
Create your first table following the instructions here.
If you dont have your own data, you can start with one of our datasets.
Next step
Invite your team
Don't show again
notebook3 Python
Free trial ends in 14 days. Upgrade to Premium in Azure
Share
ashokcluster31
File Edit View: Standard Run All Clear Comments Experiment
1 display(final_data_selected_df)
(1) Spark Jobs
Table Data Profile
tweet_text
emotion_towards
1 .@wesley83 I have a 3G iPhone. After 3 hrs tweeting at #RISE_Austin, it was dead! I need to upgrade. Plugin stations at #SXSW. iPhone
2 @jessedee Know about @fludapp ? Awesome iPad/iPhone app that you'll likely appreciate for its design. Also, they're giving free Ts at #SXSW iPad or iPhone App
3 @swonderlin Can not wait for #iPad 2 also. They should sale them down at #SXSW. iPad
4 @sxsw I hope this year's festival isn't as crashy as this year's iPhone app. #sxsw iPad or iPhone App
5 @sxtxstate great stuff on Fri #SXSW: Marissa Mayer (Google), Tim O'Reilly (tech books/conferences) & Matt Mullenweg (Wordpress) Google
6 @teachntech00 New iPad Apps For #SpeechTherapy And Communication Are Showcased At The #SXSW Conference http://ht.ly/49n4M #iear #edchat #asd null
7 null null
Truncated results, showing first 1000 rows.
Click to re-execute with maximum result limits.
Command took 0.40 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 9:49:57 PM on ashokcluster31
Shift+Enter to run
33°C Haze
ENG IN
21:50 15-06-2022

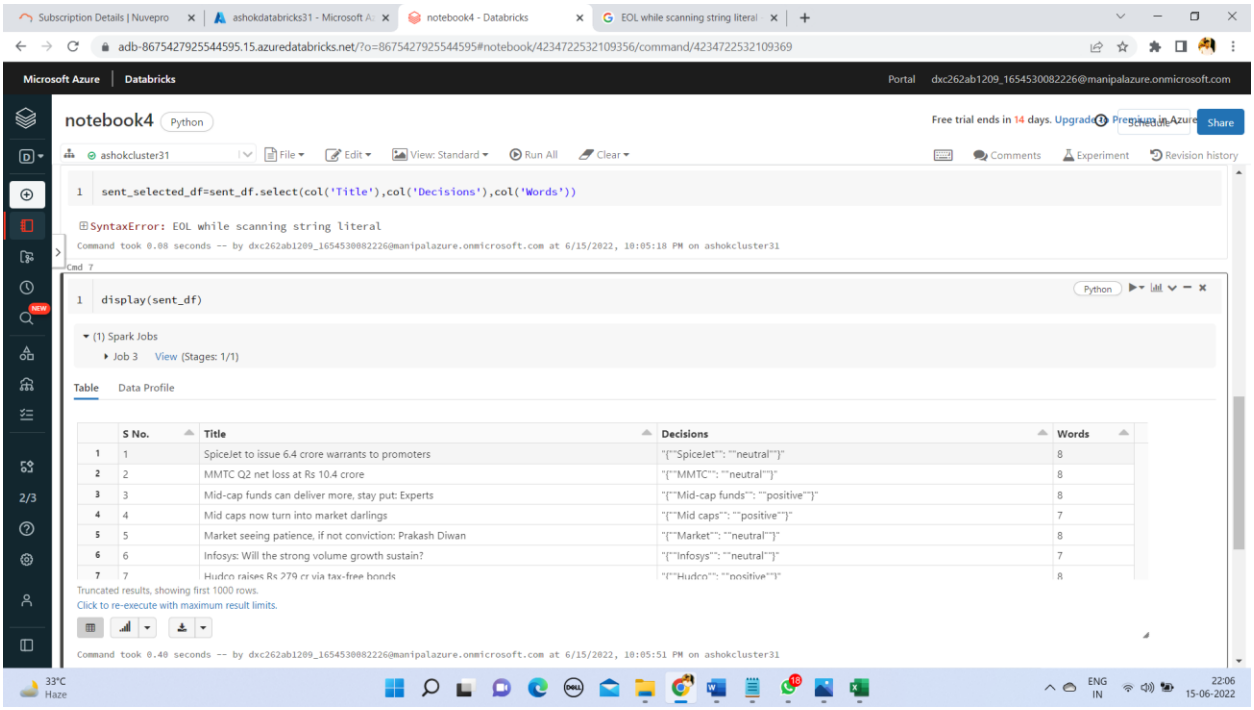
CASE 4.Using archive4.zip file - please ingest data into databricks DBFS path & query the data display with notebooks accordingly



Upload **SEntFiN-v1.1.csv** file.

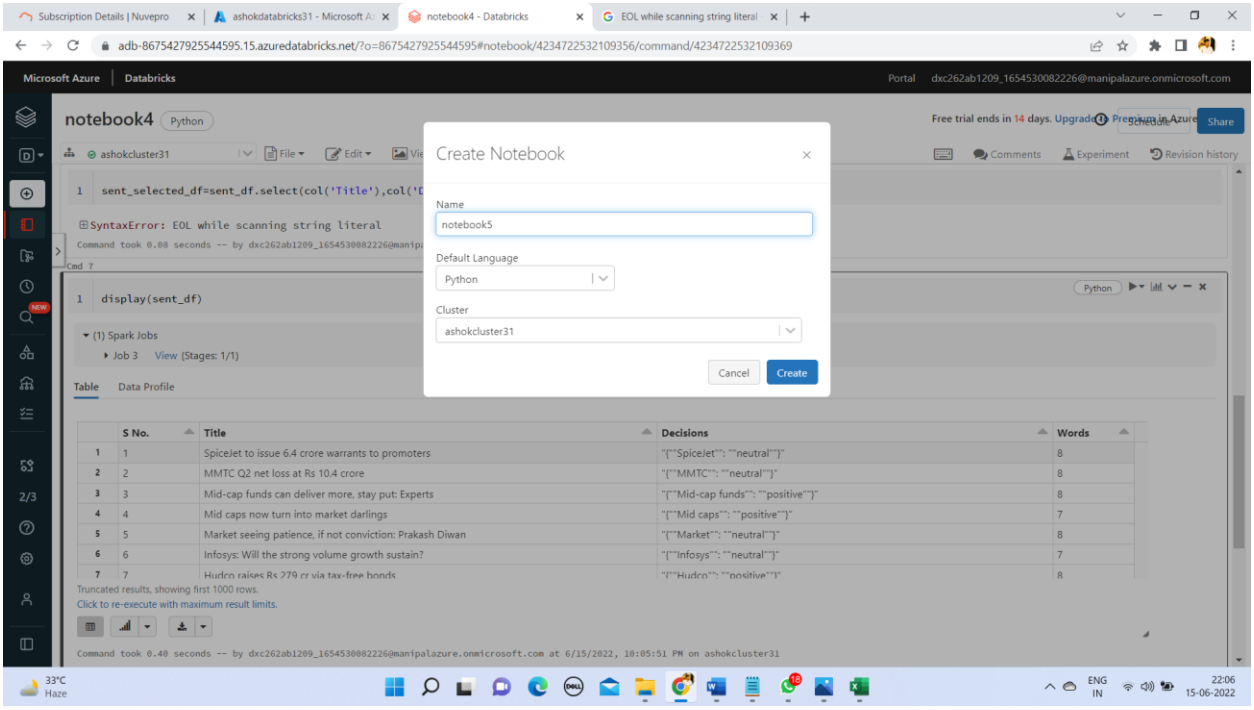


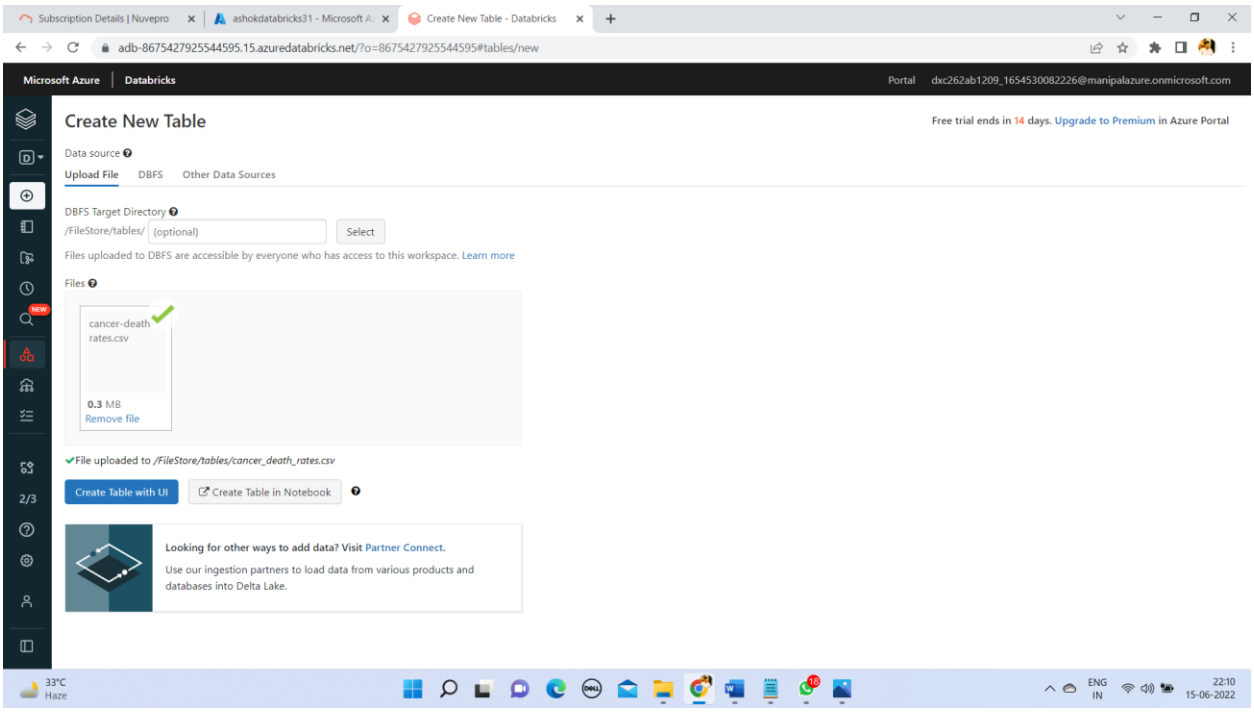


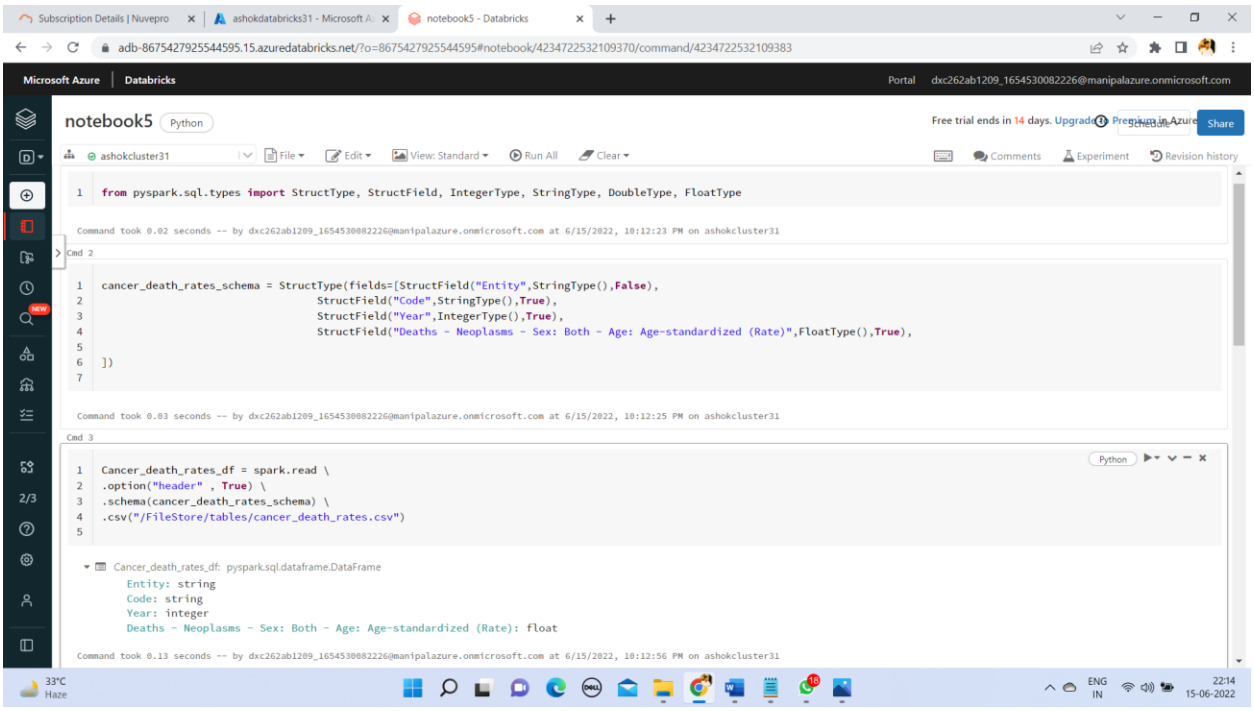


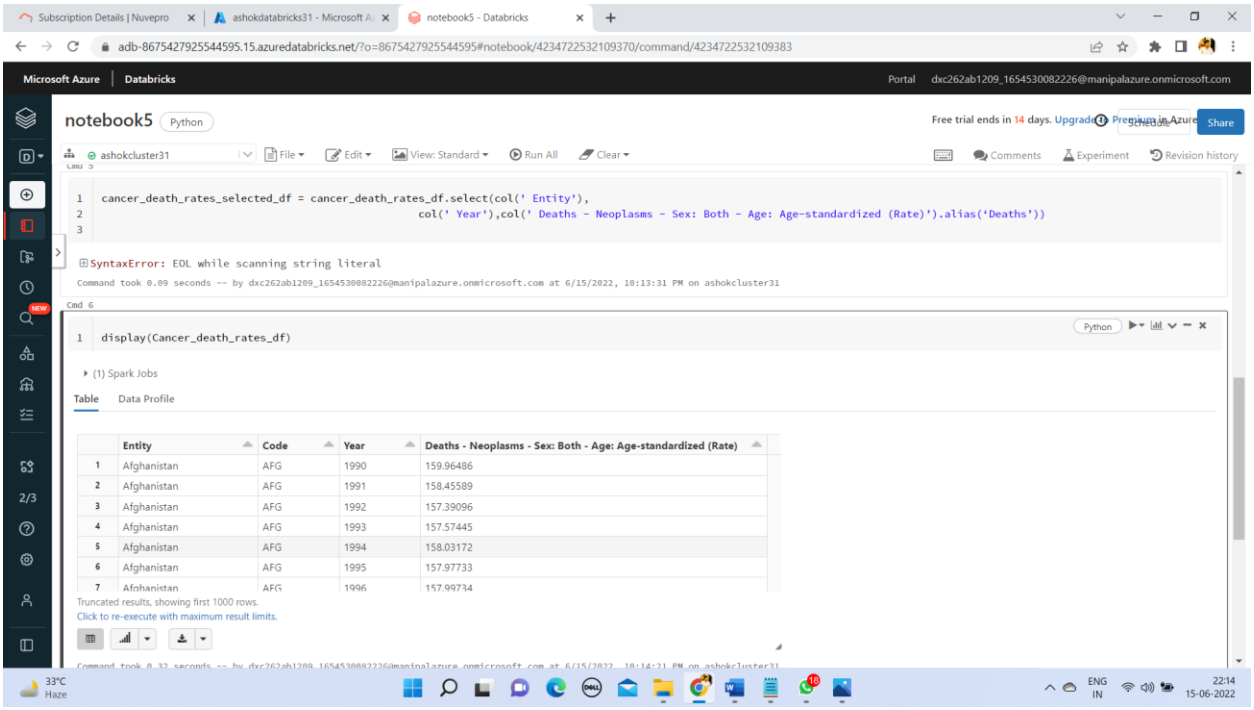
	S No.	Title	Decisions	Words
1	1	SpiceJet to issue 6.4 crore warrants to promoters	"{""SpiceJet"": ""neutral""}"	8
2	2	MMTC Q2 net loss at Rs 10.4 crore	"{""MMTC"": ""neutral""}"	8
3	3	Mid-cap funds can deliver more, stay put: Experts	"{""Mid-cap funds"": ""positive""}"	8
4	4	Mid caps now turn into market darlings	"{""Mid caps"": ""positive""}"	7
5	5	Market seeing patience, if not conviction: Prakash Diwan	"{""Market"": ""neutral""}"	8
6	6	Infosys: Will the strong volume growth sustain?	"{""Infosys"": ""neutral""}"	7
7	7	Hudco raises Rs 279 cr via tax-free bonds	"{""Hudco"": ""positive""}"	8

CASE 5.Using archive5.zip file - please ingest data into databricks DBFS path & query the data display with notebooks accordingly

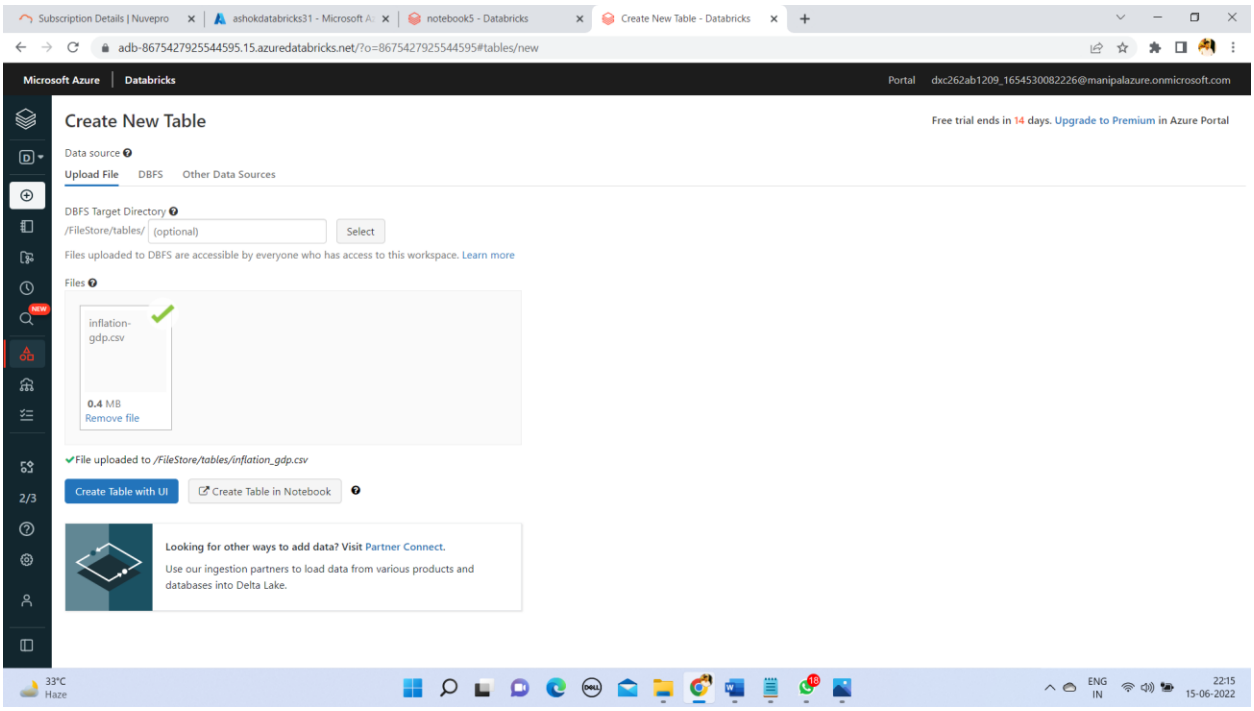


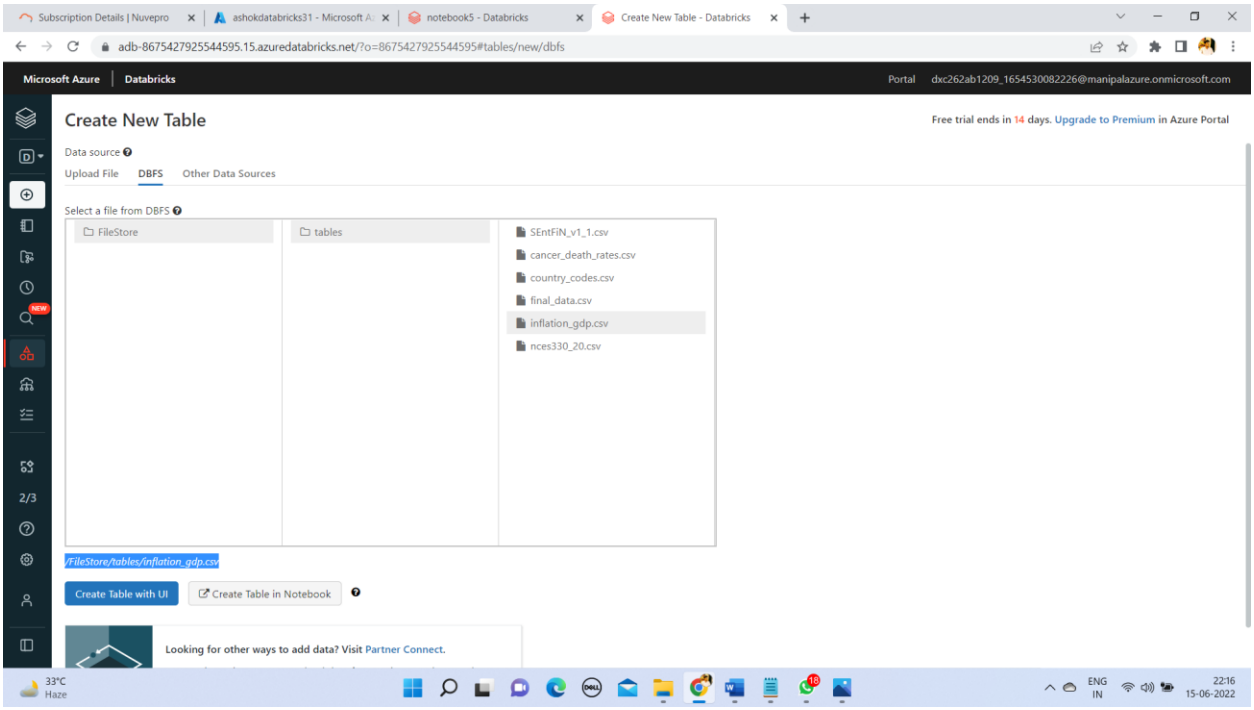






CASE 6.Using archive6.zip file - please ingest data into databricks DBFS path & query the data display with notebooks accordingly


Subscription Details | Nuvepro
ashokdatabricks31 - Microsoft A
notebook5 - Databricks
Create New Table - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#tables/new
Microsoft Azure
Databricks
Portal
dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com
Create New Table
Free trial ends in 14 days. Upgrade to Premium in Azure Portal
Data source
Upload File
DBFS
Other Data Sources
DBFS Target Directory
/FileStore/tables/
(optional)
Select
Files uploaded to DBFS are accessible by everyone who has access to this workspace. Learn more
Files
inflation-gdp.csv
0.4 MB
Remove file
File uploaded to /FileStore/tables/inflation_gdp.csv
Create Table with UI
Create Table in Notebook
Looking for other ways to add data? Visit Partner Connect.
Use our ingestion partners to load data from various products and databases into Delta Lake.
33°C
Haze
ENG
IN
22:15
15-06-2022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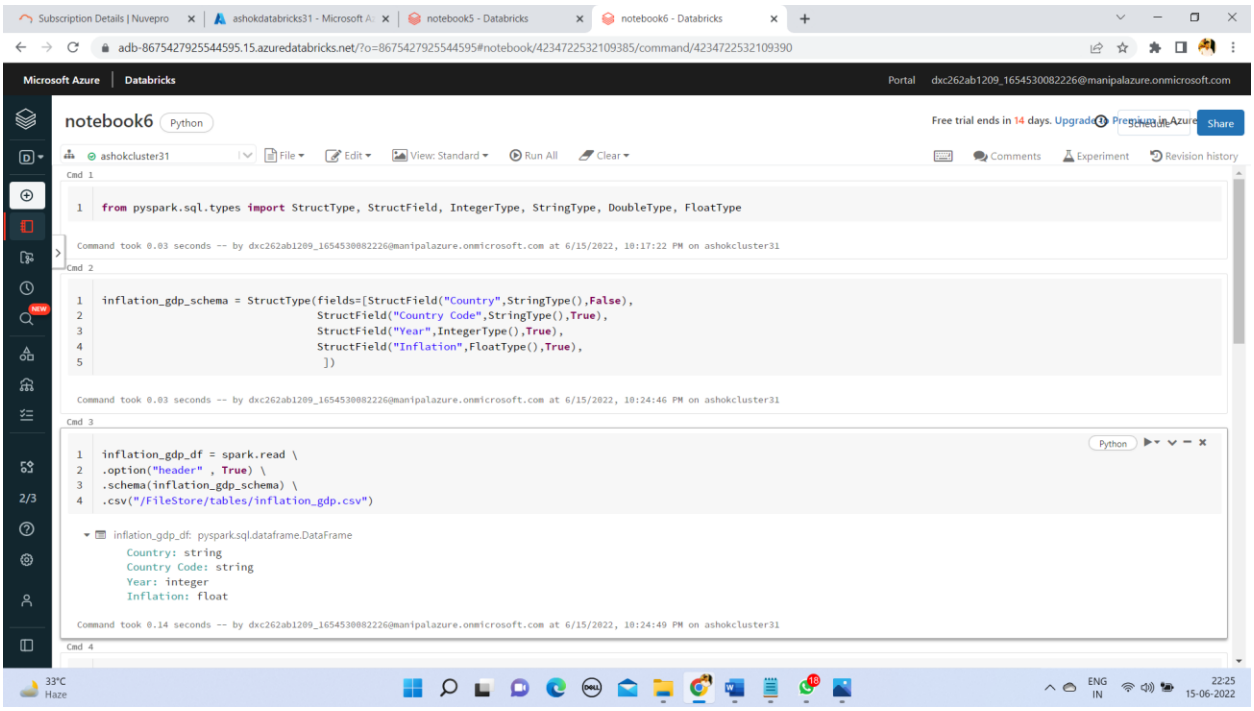
notebook5 - Databricks
Create New Table - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#tables/new/dbfs
Microsoft Azure
Databricks
Portal
dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com
Create New Table
Free trial ends in 14 days. Upgrade to Premium in Azure Portal
Data source
Upload File
DBFS
Other Data Sources
Select a file from DBFS
FileStore
tables
SEntFiN_v1_1.csv
cancer_death_rates.csv
country_codes.csv
final_data.csv
inflation_gdp.csv
nces330_20.csv
/FileStore/tables/inflation_gdp.csv
Create Table with UI
Create Table in Notebook
Looking for other ways to add data? Visit Partner Connect.
33°C
Haze
ENG
IN
22:16
15-06-2022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ashokdatabricks31 - Microsoft A
notebook5 - Databricks
notebook6 - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#notebook/4234722532109385/command/4234722532109390
Microsoft Azure
Databricks
Portal
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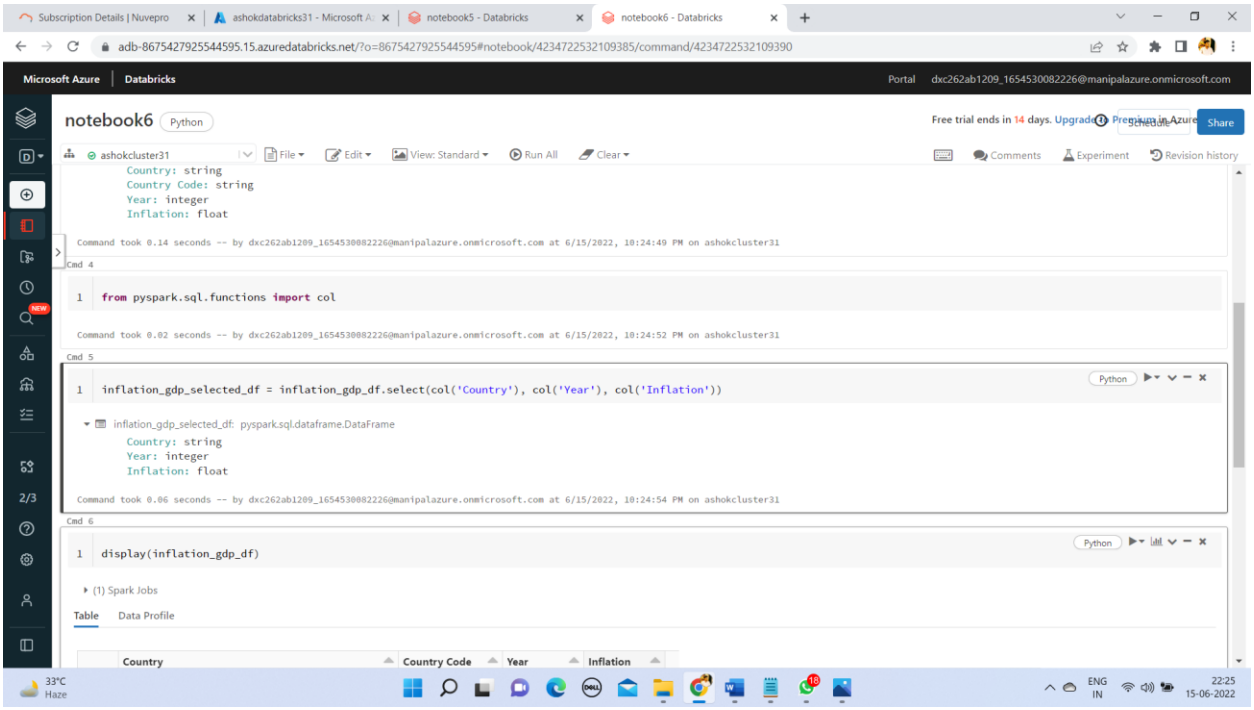
notebook6
Python
Free trial ends in 14 days. Upgrade to Premium in Azure
Share
ashokcluster31
File
Edit
View: Standard
Run All
Clear
Comments
Experiment
Revision history
Cmd 1
from pyspark.sql.types import StructType, StructField, IntegerType, StringType, DoubleType, FloatType
Command took 0.03 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:17:22 PM on ashokcluster31
Cmd 2
inflation_gdp_schema = StructType(fields=[StructField("Country",StringType(),False),
StructField("Country Code",StringType(),True),
StructField("Year",IntegerType(),True),
StructField("Inflation",FloatType(),True),
])
Command took 0.03 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:24:46 PM on ashokcluster31
Cmd 3
Python
inflation_gdp_df = spark.read \
.option("header" , True) \
.schema(inflation_gdp_schema) \
.csv("/FileStore/tables/inflation_gdp.csv")
inflation_gdp_df: pyspark.sql.dataframe.DataFrame
Country: string
Country Code: string
Year: integer
Inflation: float
Command took 0.14 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:24:49 PM on ashokcluster31
Cmd 4
33°C
Haze
ENG
IN
22:25
15-06-2022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notebook5 - Databricks
notebook6 - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#notebook/4234722532109385/command/4234722532109390
Microsoft Azure
Databricks
Portal
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notebook6
Python
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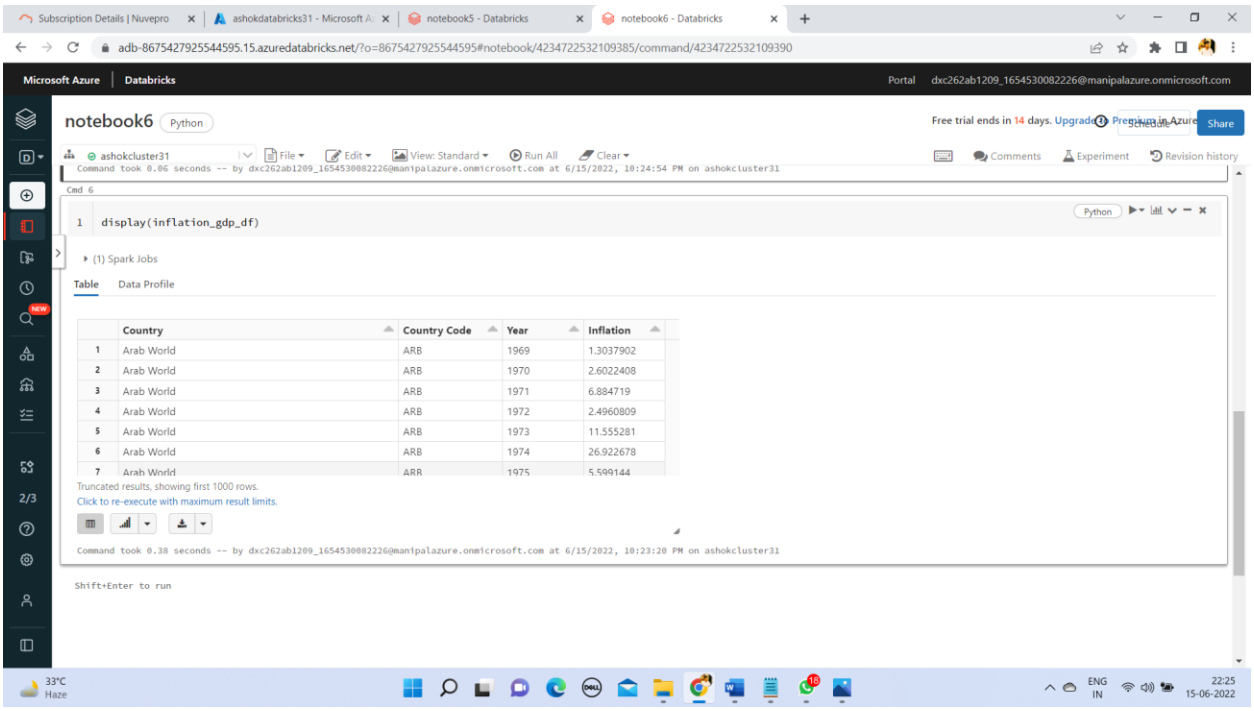
Share
ashokcluster31
File
Edit
View: Standard
Run All
Clear
Comments
Experiment
Revision history
Country: string
Country Code: string
Year: integer
Inflation: float
Command took 0.14 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:24:49 PM on ashokcluster31
Cmd 4
from pyspark.sql.functions import col
Command took 0.02 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:24:52 PM on ashokcluster31
Cmd 5
Python
inflation_gdp_selected_df = inflation_gdp_df.select(col('Country'), col('Year'), col('Inflation'))
inflation_gdp_selected_df: pyspark.sql.dataframe.DataFrame
Country: string
Year: integer
Inflation: float
Command took 0.06 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:24:54 PM on ashokcluster31
Cmd 6
Python
display(inflation_gdp_df)
(1) Spark Jobs
Table
Data Profile
Country
Country Code
Year
Inflation
33°C
Haze
ENG
IN
22:25
15-06-2022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notebook5 - Databricks
notebook6 - Databricks
adb-8675427925544595.15.azuredatabricks.net/?o=8675427925544595#notebook/4234722532109385/command/4234722532109390
Microsoft Azure
Databricks
Portal
dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com
notebook6
Python
Free trial ends in 14 days. Upgrade to Premium in Azure
Share
ashokcluster31
File
Edit
View: Standard
Run All
Clear
Comments
Experiment
Revision history
Command took 0.06 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:24:54 PM on ashokcluster31
Cmd 6
1 display(inflation_gdp_df)
(1) Spark Jobs
Table
Data Profile
Country
Country Code
Year
Inflation
1 Arab World ARB 1969 1.3037902
2 Arab World ARB 1970 2.6022408
3 Arab World ARB 1971 6.884719
4 Arab World ARB 1972 2.4960809
5 Arab World ARB 1973 11.555281
6 Arab World ARB 1974 26.922678
7 Arab World ARB 1975 5.599144
Truncated results, showing first 1000 rows.
Click to re-execute with maximum result limits.
Command took 0.38 seconds -- by dxc262ab1209_1654530082226@manipalazure.onmicrosoft.com at 6/15/2022, 10:23:20 PM on ashokcluster31
Shift+Enter to run
33°C
Haze
ENG
IN
22:25
15-06-2022

Thank You!

ASHOK KUMAR