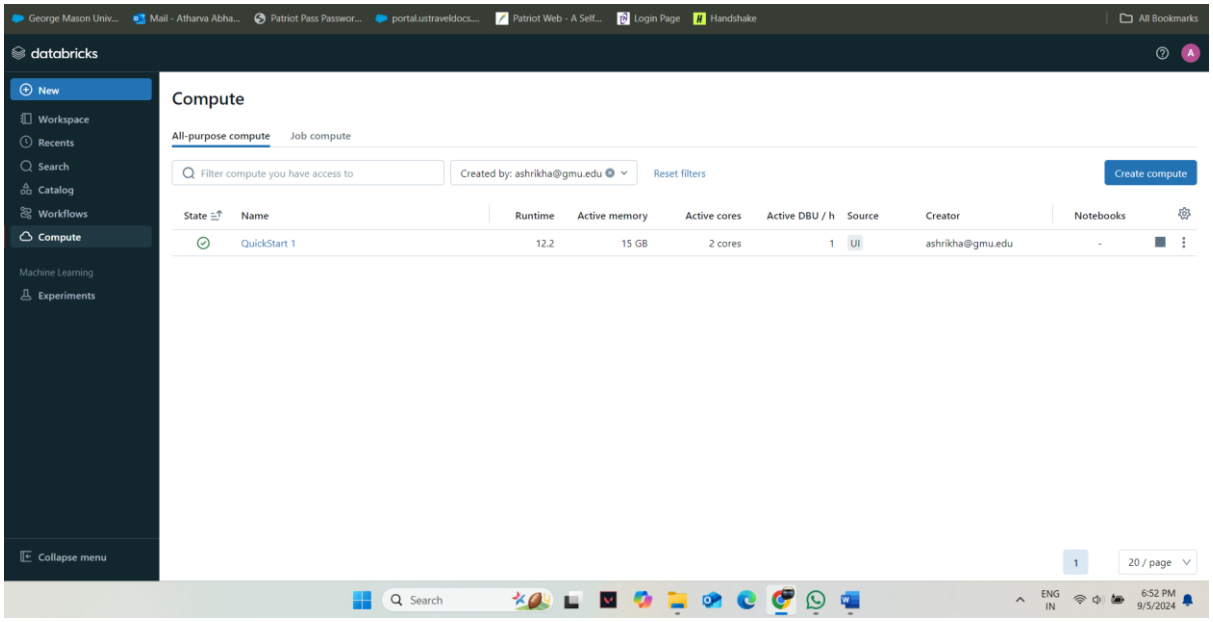
LAB NO. 1

AIT-614-002- FALL-2024

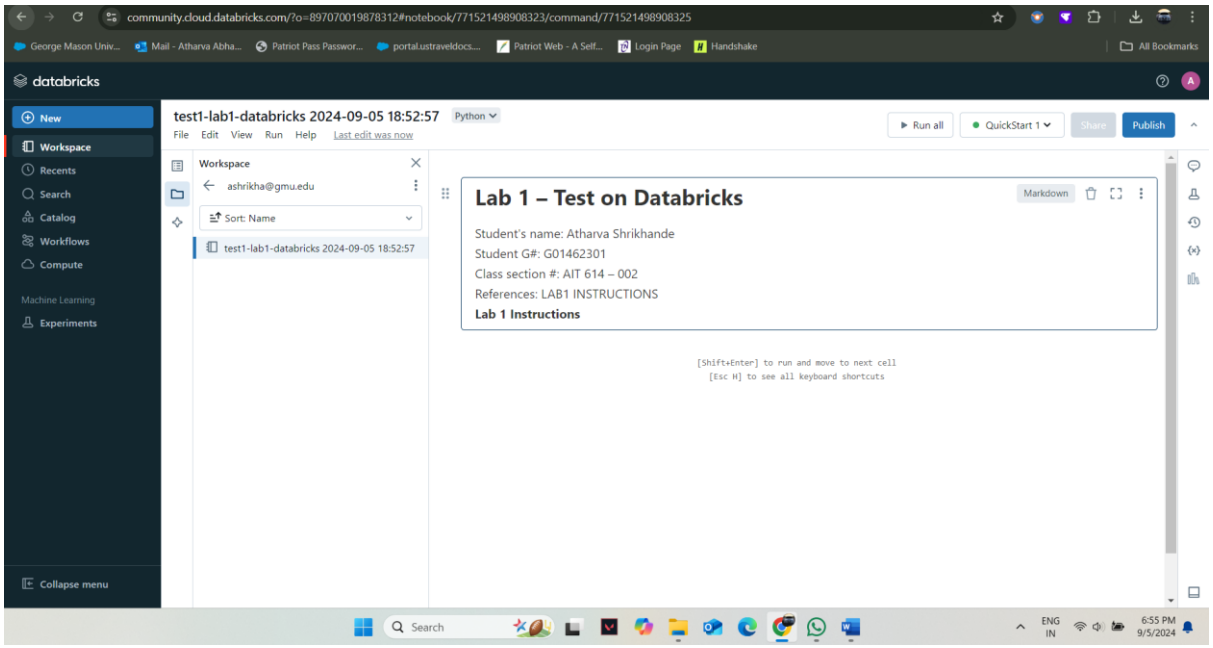
G01462301

ATHARVA ABHAY SHRIKHANDE

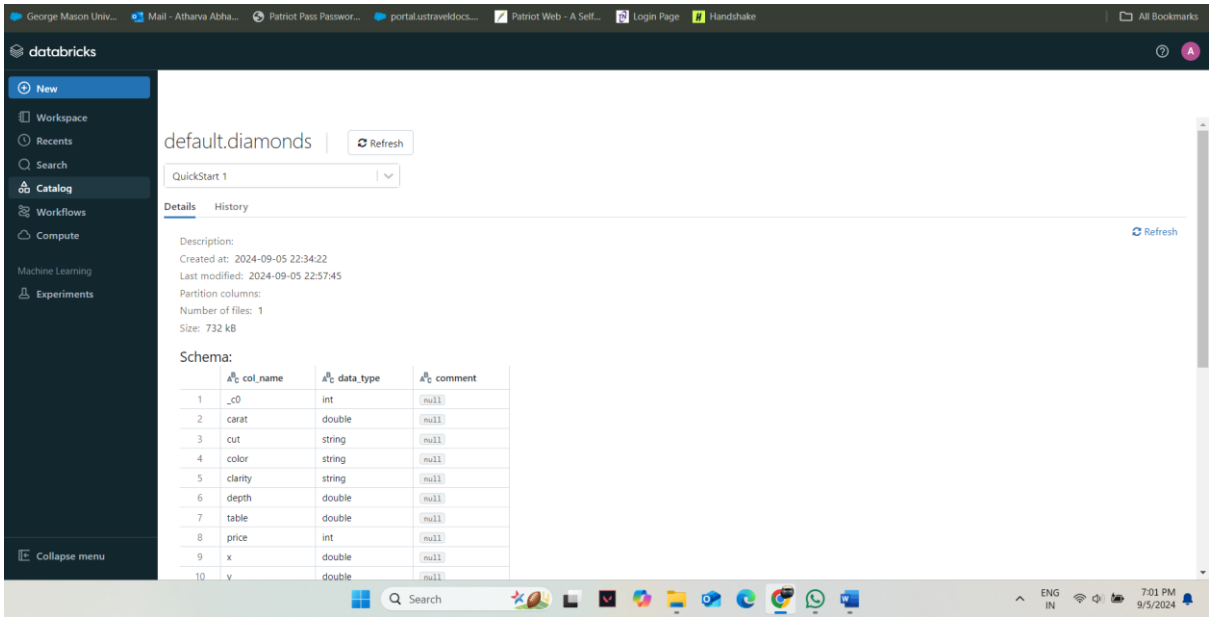
1. (50 points) Save a screenshot of the created Cluster information. It should include your account name.

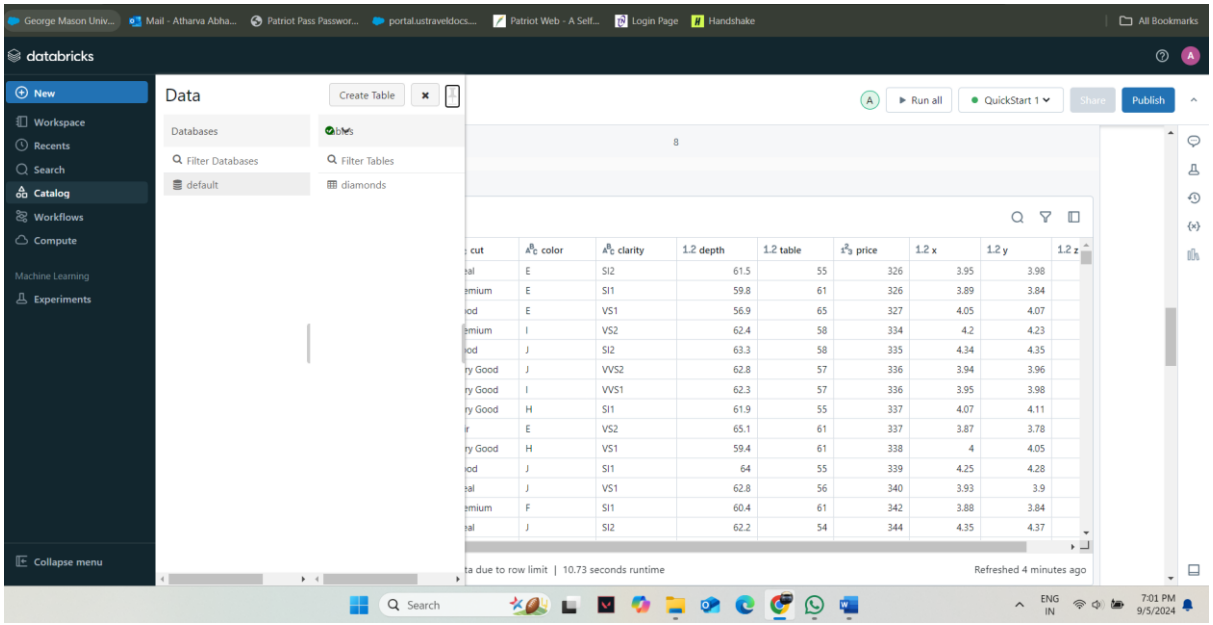


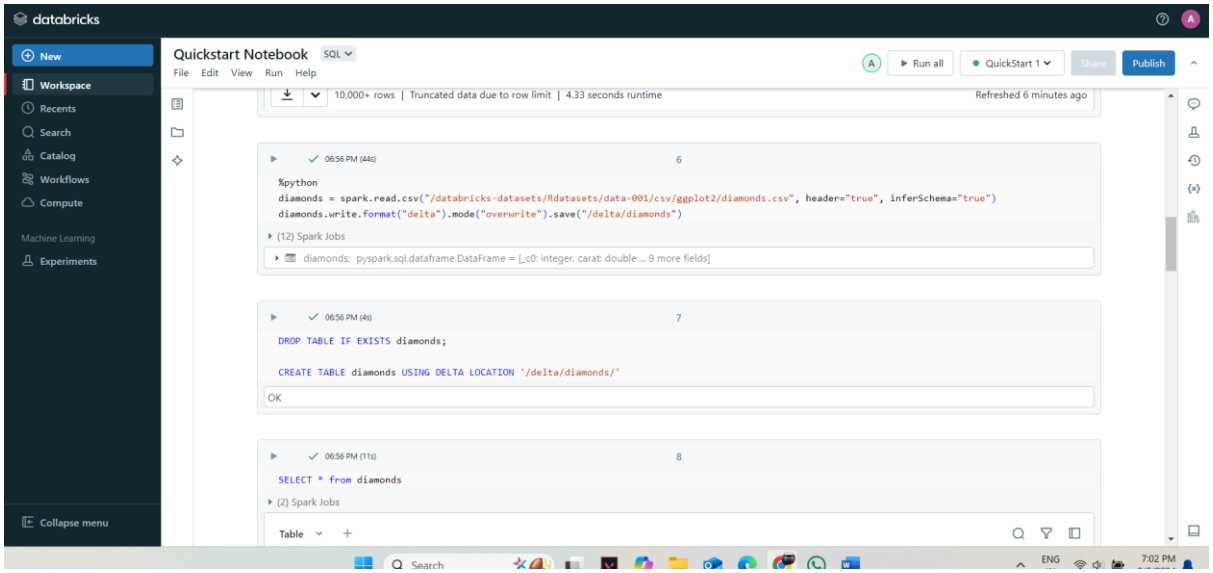
2. (25 points) Save a screenshot of the created Notebook information. It should include your name, G#, and class section #.

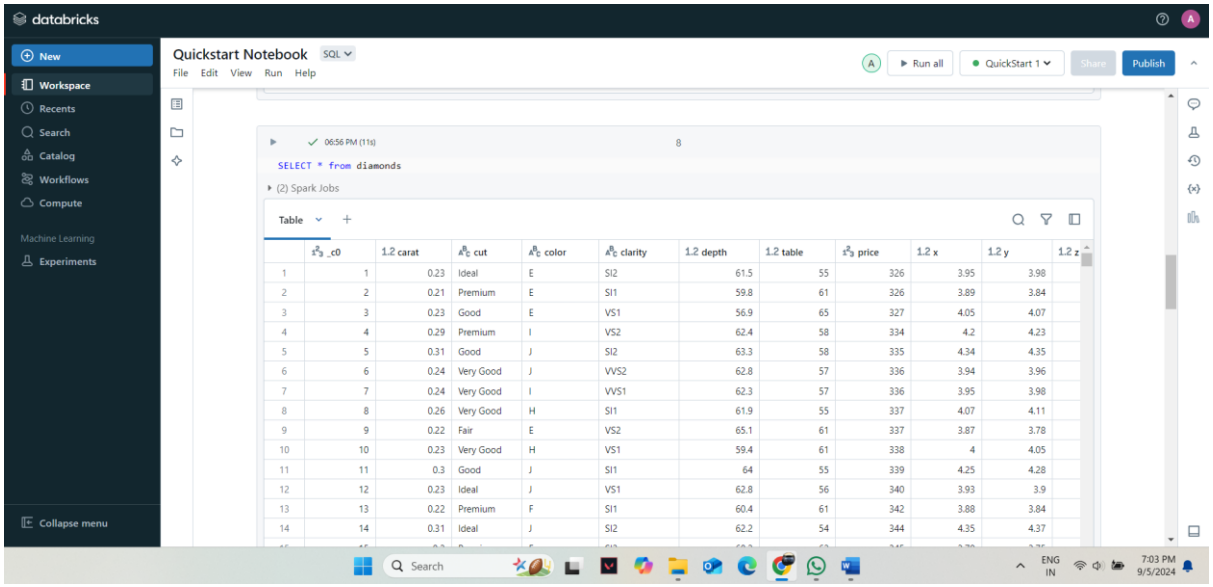


Diamond –


databricks
New
Workspace
Recents
Search
Catalog
Workflows
Compute
Machine Learning
Experiments
Collapse menu
default.diamonds
Refresh
QuickStart 1
Details
History
Description:
Created at: 2024-09-05 22:34:22
Last modified: 2024-09-05 22:57:45
Partition columns:
Number of files: 1
Size: 732 kB
Schema:
col_name
data_type
comment
1 _c0 int null
2 carat double null
3 cut string null
4 color string null
5 clarity string null
6 depth double null
7 table double null
8 price int null
9 x double null
10 y double null


databricks
New
Workspace
Recents
Search
Catalog
Workflows
Compute
Machine Learning
Experiments
Collapse menu
Data
Create Table
Databases
Filter Databases
default
Filter Tables
diamonds
Run all
QuickStart 1
Share
Publish
cut color clarity depth table price x y z
Refreshed 4 minutes ago


databricks
New
Workspace
Recents
Search
Catalog
Workflows
Compute
Machine Learning
Experiments
Collapse menu
Quickstart Notebook
SQL
File Edit View Run Help
Run all
QuickStart 1
Share
Publish
10,000+ rows | Truncated data due to row limit | 4.33 seconds runtime
Refreshed 6 minutes ago
06:56 PM (44s)
6
%python
diamonds = spark.read.csv("/databricks-datasets/Rdatasets/data-001/csv/ggplot2/diamonds.csv", header="true", inferSchema="true")
diamonds.write.format("delta").mode("overwrite").save("/delta/diamonds")
(12) Spark Jobs
diamonds: pyspark.sql.dataframe.DataFrame = [_c0: integer, carat: double ... 9 more fields]
06:56 PM (4s)
7
DROP TABLE IF EXISTS diamonds;
CREATE TABLE diamonds USING DELTA LOCATION '/delta/diamonds/'
OK
06:56 PM (11s)
8
SELECT * from diamonds
(2) Spark Jobs
Table
Search
ENG
7:02 PM


databricks
New
Workspace
Recents
Search
Catalog
Workflows
Compute
Machine Learning
Experiments
Collapse menu
Quickstart Notebook
SQL
File Edit View Run Help
Run all
QuickStart 1
Share
Publish
06:56 PM (11s)
8
SELECT * from diamonds
(2) Spark Jobs
Table
_c0 | carat | cut | color | clarity | depth | table | price | x | y | z
1 | 1 | 0.23 | Ideal | E | SI2 | 61.5 | 55 | 326 | 3.95 | 3.98
2 | 2 | 0.21 | Premium | E | SI1 | 59.8 | 61 | 326 | 3.89 | 3.84
3 | 3 | 0.23 | Good | E | VS1 | 56.9 | 65 | 327 | 4.05 | 4.07
4 | 4 | 0.29 | Premium | I | VS2 | 62.4 | 58 | 334 | 4.2 | 4.23
5 | 5 | 0.31 | Good | J | SI2 | 63.3 | 58 | 335 | 4.34 | 4.35
6 | 6 | 0.24 | Very Good | J | VVS2 | 62.8 | 57 | 336 | 3.94 | 3.96
7 | 7 | 0.24 | Very Good | I | VVS1 | 62.3 | 57 | 336 | 3.95 | 3.98
8 | 8 | 0.26 | Very Good | H | SI1 | 61.9 | 55 | 337 | 4.07 | 4.11
9 | 9 | 0.22 | Fair | E | VS2 | 65.1 | 61 | 337 | 3.87 | 3.78
10 | 10 | 0.23 | Very Good | H | VS1 | 59.4 | 61 | 338 | 4 | 4.05
11 | 11 | 0.3 | Good | J | SI1 | 64 | 55 | 339 | 4.25 | 4.28
12 | 12 | 0.23 | Ideal | J | VS1 | 62.8 | 56 | 340 | 3.93 | 3.9
13 | 13 | 0.22 | Premium | F | SI1 | 60.4 | 61 | 342 | 3.88 | 3.84
14 | 14 | 0.31 | Ideal | J | SI2 | 62.2 | 54 | 344 | 4.35 | 4.37
Search
ENG
IN
7:03 PM
9/5/2024

3. (25 points) Save a screenshot of the run tutorial notebook and the created table by the tutorial.