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Databricks Certified Professional Data Engineer Exam Sample Questions (Q170-Q175):

NEW QUESTION # 170

The following code has been migrated to a Databricks notebook from a legacy workload:

```
!sh
git clone https://github.com/foo/data_loader;
python ./data_loader/run.py;
mv ./output /mnt/new_data
```

The code executes successfully and provides the logically correct results, however, it takes over 20 minutes to extract and load around 1 GB of data.

Which statement is a possible explanation for this behavior?

- A. %sh executes shell code on the driver node. The code does not take advantage of the worker nodes or Databricks optimized Spark.
- B. %sh does not distribute file moving operations; the final line of code should be updated to use %fs instead.
- C. Python will always execute slower than Scala on Databricks. The run.py script should be refactored to Scala.
- D. %sh triggers a cluster restart to collect and install Git. Most of the latency is related to cluster startup time.
- E. Instead of cloning, the code should use %sh pip install so that the Python code can get executed in parallel across all nodes in a cluster.

Answer: A

Explanation:

<https://www.databricks.com/blog/2020/08/31/introducing-the-databricks-web-terminal.html> The code is using %sh to execute shell code on the driver node. This means that the code is not taking advantage of the worker nodes or Databricks optimized Spark. This is why the code is taking longer to execute. A better approach would be to use Databricks libraries and APIs to read and write data from Git and DBFS, and to leverage the parallelism and performance of Spark. For example, you can use the Databricks Connect feature to run your Python code on a remote Databricks cluster, or you can use the Spark Git Connector to read data from Git repositories as Spark DataFrames.

NEW QUESTION # 171

You noticed that a team member started using an all-purpose cluster to develop a notebook and used the same all-purpose cluster to set up a job that can run every 30 mins so they can update underlying tables which are used in a dashboard. What would you recommend for reducing the overall cost of this approach?

- A. Enable auto termination after 30 mins
- B. Change the cluster mode from all-purpose to single-mode
- C. Reduce the size of the cluster
- D. Reduce the number of nodes and enable auto scale
- E. Change the cluster all-purpose to job cluster when scheduling the job

Answer: E

Explanation:

Explanation

While using an all-purpose cluster is ok during development but anytime you don't need to interact with a notebook, especially for a scheduled job it is less expensive to use a job cluster. Using an all-purpose cluster can be twice as expensive as a job cluster.

Please note: The compute cost you pay the cloud provider for the same cluster type and size between an all-purpose cluster and job cluster is the same the only difference is the DBU cost.

The total cost of cluster = Total cost of VM compute(Azure or AWS or GCP) + Cost per DBU The per DBU cost varies between all-purpose and Job Cluster Here is the recent cost estimate from AWS between Jobs Cluster and all-purpose Cluster, for jobs compute its

\$0.15 cents per DBU v\$0.55 cents per DBU for all-purpose

Graphical user interface Description automatically generated

aws		Standard	Premium	Enterprise
		One platform for your data analytics and ML workloads	Data analytics and ML at scale across your business	Data analytics and ML for your mission critical workloads
CLASSIC COMPUTE	Jobs Light Compute Run data engineering pipelines to build data lakes. ⓘ	\$0.07 / DBU	\$0.10 / DBU	\$0.13 / DBU
	Jobs Compute Jobs Compute Photon Run data engineering pipelines to build data lakes and manage data at scale.	\$0.10 / DBU	\$0.15 / DBU	\$0.20 / DBU
	Delta Live Tables Delta Live Tables Photon Easily build high quality streaming or batch ETL pipelines using Python or SQL with the DLT Edition that is best for your workload. Learn more	\$0.20 – \$0.36 / DBU	\$0.20 – \$0.36 / DBU	\$0.20 – \$0.36 / DBU
	SQL Compute Run SQL queries for BI reporting, analytics and visualization to get timely insights from data lakes.	–	\$0.22 / DBU	\$0.22 / DBU
	All-Purpose Compute All-Purpose Compute Photon Run interactive data science and machine learning workloads. Also good for data engineering, BI and data analytics.	\$0.40 / DBU	\$0.55 / DBU	\$0.65 / DBU

How do I check how much the DBU cost for my cluster?

When you click on an exister cluster or when you look at the cluster details you will see this in the top right corner Graphical user interface, text, application, email Description automatically generated

Test All Purpose Cluster ⓘ ⓘ

Configuration Notebooks (0) Libraries Event log Spark UI Driver logs Metrics Apps Spark cluster UI - Master

Policy ⓘ
Unrestricted

☒ Multi node ☐ Single node

Access mode ⓘ
Single user access ⓘ
Single user Admin

Performance
Databricks Runtime Version
10.4 LTS (includes Apache Spark 3.2.1, Scala 2.12)

☐ Use Photon Acceleration ⓘ

Worker type ⓘ
Standard_D96a_v4 384 GB Memory, 96 Cores 8 ☐ Spot instances ⓘ

Driver type
Standard_D96a_v4 384 GB Memory, 96 Cores

Summary
8 Workers 3,072 GB Memory 768 Cores
1 Driver 384 GB Memory, 96 Cores
Runtime 10.4.x-scala2.12
Unity Catalog Standard_D96a_v4 162 DBU/h

NEW QUESTION # 172

Two of the most common data locations on Databricks are the DBFS root storage and external object storage mounted with `dbutils.fs.mount()`.

Which of the following statements is correct?

- A. The DBFS root stores files in ephemeral block volumes attached to the driver, while mounted directories will always persist saved data to external storage between sessions.
- B. The DBFS root is the most secure location to store data, because mounted storage volumes must have full public read and write permissions.
- C. By default, both the DBFS root and mounted data sources are only accessible to workspace administrators.
- D. Neither the DBFS root nor mounted storage can be accessed when using %sh in a Databricks notebook.
- E. DBFS is a file system protocol that allows users to interact with files stored in object storage using syntax and guarantees similar to Unix file systems.

Answer: E

Explanation:

DBFS is a file system protocol that allows users to interact with files stored in object storage using syntax and guarantees similar to Unix file systems¹. DBFS is not a physical file system, but a layer over the object storage that provides a unified view of data across different data sources¹. By default, the DBFS root is accessible to all users in the workspace, and the access to mounted data sources depends on the permissions of the storage account or container². Mounted storage volumes do not need to have full public read and write permissions, but they do require a valid connection string or access key to be provided when mounting³. Both the DBFS root and mounted storage can be accessed when using %sh in a Databricks notebook, as long as the cluster has FUSE enabled⁴. The DBFS root does not store files in ephemeral block volumes attached to the driver, but in the object storage associated with the workspace¹. Mounted directories will persist saved data to external storage between sessions, unless they are unmounted or deleted³. References: DBFS, Work with files on Azure Databricks, Mounting cloudobject storage on Azure Databricks, Access DBFS with FUSE

NEW QUESTION # 173

Why does AUTO LOADER require schema location?

- A. Schema location is used to store user provided schema
- B. AUTO LOADER does not require schema location, because it supports Schema evolution
- C. Schema location is used to store schema inferred by AUTO LOADER
- D. Schema location is used to identify the schema of target table and source table
- E. Schema location is used to identify the schema of target table

Answer: C

Explanation:

Explanation

The answer is, Schema location is used to store schema inferred by AUTO LOADER, so the next time AUTO LOADER runs faster as does not need to infer the schema every single time by trying to use the last known schema.

Auto Loader samples the first 50 GB or 1000 files that it discovers, whichever limit is crossed first. To avoid incurring this inference cost at every stream start up, and to be able to provide a stable schema across stream restarts, you must set the option `cloudFiles.schemaLocation`. Auto Loader creates a hidden directory `_schemas` at this location to track schema changes to the input data over time.

The below link contains detailed documentation on different options

Auto Loader options | Databricks on AWS

NEW QUESTION # 174

A junior member of the data engineering team is exploring the language interoperability of Databricks notebooks. The intended outcome of the below code is to register a view of all sales that occurred in countries on the continent of Africa that appear in the `geo_lookup` table.

Before executing the code, running `SHOW TABLES` on the current database indicates the database contains only two tables: `geo_lookup` and `sales`.

```
Cmd 1
%python
countries_af = [x[0] for x in
spark.table("geo_lookup").filter("continent='AF'").select("country").collect()]

Cmd 2
%sql
CREATE VIEW sales_af AS
SELECT *
FROM sales
WHERE city IN countries
AND CONTINENT = "AF"
```

Which statement correctly describes the outcome of executing these command cells in order in an interactive notebook?

- A. Cmd 1 will succeed. Cmd 2 will search all accessible databases for a table or view named countries af: if this entity exists, Cmd 2 will succeed.
- B. Cmd 1 will succeed and Cmd 2 will fail, countries at will be a Python variable representing a PySpark DataFrame.
- **C. Cmd 1 will succeed and Cmd 2 will fail, countries at will be a Python variable containing a list of strings.**
- D. Both commands will succeed. Executing show tables will show that countries at and sales at have been registered as views.
- E. Both commands will fail. No new variables, tables, or views will be created.

Answer: C

Explanation:

This is the correct answer because Cmd 1 is written in Python and uses a list comprehension to extract the country names from the geo_lookup table and store them in a Python variable named countries af. This variable will contain a list of strings, not a PySpark DataFrame or a SQL view. Cmd 2 is written in SQL and tries to create a view named sales af by selecting from the sales table where city is in countries af. However, this command will fail because countries af is not a valid SQL entity and cannot be used in a SQL query. To fix this, a better approach would be to use spark.sql() to execute a SQL query in Python and pass the countries af variable as a parameter. Verified References: [Databricks Certified Data Engineer Professional], under "Language Interoperability" section; Databricks Documentation, under "Mix languages" section.

NEW QUESTION # 175

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