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## Databricks Certified Professional Data Engineer Exam Sample Questions (Q40-Q45):

### NEW QUESTION # 40

The data architect has mandated that all tables in the Lakehouse should be configured as external Delta Lake tables. Which approach will ensure that this requirement is met?

- A. Whenever a database is being created, make sure that the location keyword is used
- B. When the workspace is being configured, make sure that external cloud object storage has been mounted.
- C. When tables are created, make sure that the external keyword is used in the create table statement.
- D. Whenever a table is being created, make sure that the location keyword is used.
- E. When configuring an external data warehouse for all table storage. leverage Databricks for all ELT.

**Answer: D**

#### NEW QUESTION # 41

The current ELT pipeline is receiving data from the operations team once a day so you had setup an AUTO LOADER process to run once a day using trigger (Once = True) and scheduled a job to run once a day, operations team recently rolled out a new feature that allows them to send data every 1 min, what changes do you need to make to AUTO LOADER to process the data every 1 min.

- A. Convert AUTO LOADER to structured streaming
- B. Enable stream processing
- C. Change AUTO LOADER trigger to .trigger(ProcessingTime = "1 minute")
- D. Change AUTO LOADER trigger to ("1 minute")
- E. Setup a job cluster run the notebook once a minute

**Answer: C**

#### NEW QUESTION # 42

An external object storage container has been mounted to the location /mnt/finance\_eda\_bucket.

The following logic was executed to create a database for the finance team:

After the database was successfully created and permissions configured, a member of the finance team runs the following code: If all users on the finance team are members of the finance group, which statement describes how the tx\_sales table will be created?

- A. An managed table will be created in the storage container mounted to /mnt/finance eda bucket.
- B. A logical table will persist the physical plan to the Hive Metastore in the Databricks control plane.
- C. A logical table will persist the query plan to the Hive Metastore in the Databricks control plane.
- D. A managed table will be created in the DBFS root storage container.
- E. An external table will be created in the storage container mounted to /mnt/finance eda bucket.

**Answer: C**

Explanation:

<https://docs.databricks.com/en/lakehouse/data-objects.html>

#### NEW QUESTION # 43

You noticed that colleague is manually copying the notebook with \_b kp to store the previous ver-sions, which of the following feature would you recommend instead.

- A. Databricks notebooks should be copied to a local machine and setup source control locally to version the notebooks
- B. Databricks notebooks can be exported into dbc archive files and stored in data lake
- C. Databricks notebooks support change tracking and versioning
- D. Databricks notebook can be exported as HTML and imported at a later time

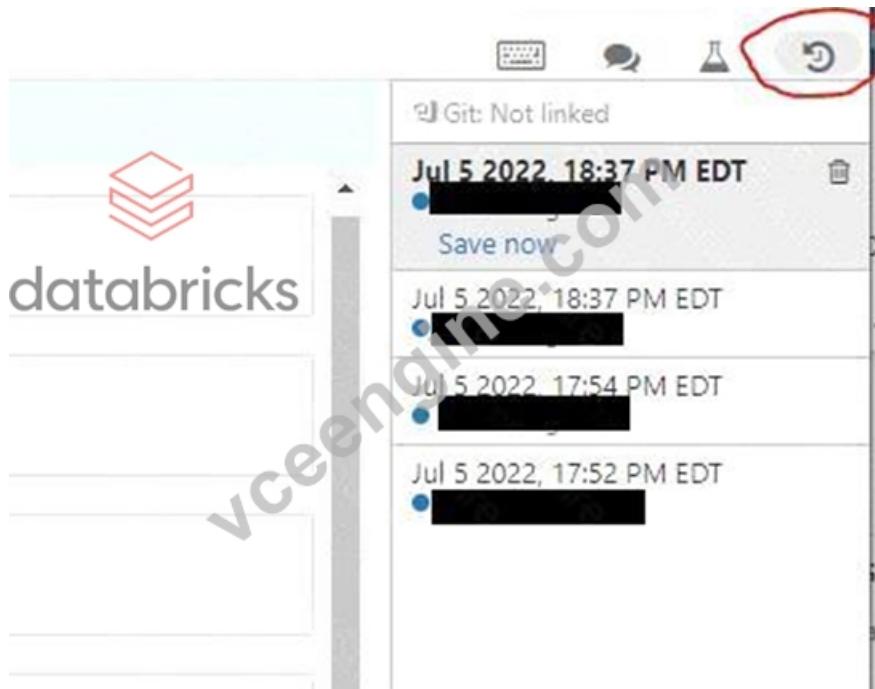
**Answer: C**

Explanation:

Explanation

Answer is Databricks notebooks support automatic change tracking and versioning.

When you are editing the notebook on the right side check version history to view all the changes, every change you are making is captured and saved.



#### NEW QUESTION # 44

A production cluster has 3 executor nodes and uses the same virtual machine type for the driver and executor.

When evaluating the Ganglia Metrics for this cluster, which indicator would signal a bottleneck caused by code executing on the driver?

- A. Total Disk Space remains constant
- B. Overall cluster CPU utilization is around 25%
- C. Bytes Received never exceeds 80 million bytes per second
- D. The five Minute Load Average remains consistent/flat
- E. Network I/O never spikes

**Answer: B**

Explanation:

Explanation

This is the correct answer because it indicates a bottleneck caused by code executing on the driver. A bottleneck is a situation where the performance or capacity of a system is limited by a single component or resource. A bottleneck can cause slow execution, high latency, or low throughput. A production cluster has 3 executor nodes and uses the same virtual machine type for the driver and executor. When evaluating the Ganglia Metrics for this cluster, one can look for indicators that show how the cluster resources are being utilized, such as CPU, memory, disk, or network. If the overall cluster CPU utilization is around 25%, it means that only one out of the four nodes (driver + 3 executors) is using its full CPU capacity, while the other three nodes are idle or underutilized. This suggests that the code executing on the driver is taking too long or consuming too much CPU resources, preventing the executors from receiving tasks or data to process. This can happen when the code has driver-side operations that are not parallelized or distributed, such as collecting large amounts of data to the driver, performing complex calculations on the driver, or using non-Spark libraries on the driver. Verified References: [Databricks Certified Data Engineer Professional], under "Spark Core" section; Databricks Documentation, under "View cluster status and event logs - Ganglia metrics" section; Databricks Documentation, under "Avoid collecting large RDDs" section.

#### NEW QUESTION # 45

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