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Databricks Certified Data Engineer Professional Exam Sample Questions (Q123-Q128):

NEW QUESTION # 123

A Delta Lake table was created with the below query:

Realizing that the original query had a typographical error, the below code was executed:

ALTER TABLE prod.sales_by_stor RENAME TO prod.sales_by_store
Which result will occur after running the second command?

- A. A new Delta transaction log is created for the renamed table.
- B. The table name change is recorded in the Delta transaction log.
- **C. The table reference in the metastore is updated and no data is changed.**
- D. All related files and metadata are dropped and recreated in a single ACID transaction.
- E. The table reference in the metastore is updated and all data files are moved.

Answer: C

Explanation:

The query uses the CREATE TABLE USING DELTA syntax to create a Delta Lake table from an existing Parquet file stored in DBFS. The query also uses the LOCATION keyword to specify the path to the Parquet file as /mnt/finance_eda_bucket/tx_sales.parquet. By using the LOCATION keyword, the query creates an external table, which is a table that is stored outside of the default warehouse directory and whose metadata is not managed by Databricks. An external table can be created from an existing directory in a cloud storage system, such as DBFS or S3, that contains data files in a supported format, such as Parquet or CSV.

The result that will occur after running the second command is that the table reference in the metastore is updated and no data is changed. The metastore is a service that stores metadata about tables, such as their schema, location, properties, and partitions. The metastore allows users to access tables using SQL commands or Spark APIs without knowing their physical location or format. When renaming an external table using the ALTER TABLE RENAME TO command, only the table reference in the metastore is updated with the new name; no data files or directories are moved or changed in the storage system. The table will still point to the same location and use the same format as before. However, if renaming a managed table, which is a table whose metadata and data are both managed by Databricks, both the table reference in the metastore and the data files in the default warehouse directory are moved and renamed accordingly.

NEW QUESTION # 124

The data architect has decided that once data has been ingested from external sources into the Databricks Lakehouse, table access controls will be leveraged to manage permissions for all production tables and views.

The following logic was executed to grant privileges for interactive queries on a production database to the core engineering group.

```
GRANT USAGE ON DATABASE prod TO eng;
```

```
GRANT SELECT ON DATABASE prod TO eng;
```

Assuming these are the only privileges that have been granted to the eng group and that these users are not workspace administrators, which statement describes their privileges?

- A. Group members have full permissions on the prod database and can also assign permissions to other users or groups.
- B. Group members are able to list all tables in the prod database but are not able to see the results of any queries on those tables.
- **C. Group members are able to query all tables and views in the prod database, but cannot create or edit anything in the database.**
- D. Group members are able to create, query, and modify all tables and views in the prod database, but cannot define custom functions.
- E. Group members are able to query and modify all tables and views in the prod database, but cannot create new tables or views.

Answer: C

Explanation:

The GRANT USAGE ON DATABASE prod TO eng command grants the eng group the permission to use the prod database, which means they can list and access the tables and views in the database. The GRANT SELECT ON DATABASE prod TO eng command grants the eng group the permission to select data from the tables and views in the prod database, which means they can query the data using SQL or DataFrame API. However, these commands do not grant the eng group any other permissions, such as creating, modifying, or deleting tables and views, or defining custom functions. Therefore, the eng group members are able to query all tables and views in the prod database, but cannot create or edit anything in the database.

NEW QUESTION # 125

What is a method of installing a Python package scoped at the notebook level to all nodes in the currently active cluster?

- A. Install libraries from PyPi using the cluster UI
- B. Use &sh install in a notebook cell
- C. Use &Pip install in a notebook cell
- D. Run source env/bin/activate in a notebook setup script

Answer: A

Explanation:

Installing a Python package scoped at the notebook level to all nodes in the currently active cluster in Databricks can be achieved by using the Libraries tab in the cluster UI. This interface allows you to install libraries across all nodes in the cluster. While the %pip command in a notebook cell would only affect the driver node, using the cluster UI ensures that the package is installed on all nodes.

NEW QUESTION # 126

When evaluating the Ganglia Metrics for a given cluster with 3 executor nodes, which indicator would signal proper utilization of the VM's resources?

- A. Bytes Received never exceeds 80 million bytes per second
- B. Total Disk Space remains constant
- C. Network I/O never spikes
- D. CPU Utilization is around 75% [Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from](#)
- E. The five Minute Load Average remains consistent/flat

Answer: D

Explanation:

In the context of cluster performance and resource utilization, a CPU utilization rate of around 75% is generally considered a good indicator of efficient resource usage. This level of CPU utilization suggests that the cluster is being effectively used without being overburdened or underutilized. A consistent 75% CPU utilization indicates that the cluster's processing power is being effectively employed while leaving some headroom to handle spikes in workload or additional tasks without maxing out the CPU, which could lead to performance degradation. A five Minute Load Average that remains consistent/flat (Option A) might indicate underutilization or a bottleneck elsewhere.

Monitoring network I/O (Options B and C) is important, but these metrics alone don't provide a complete picture of resource utilization efficiency.

Total Disk Space (Option D) remaining constant is not necessarily an indicator of proper resource utilization, as it's more related to storage rather than computational efficiency.

NEW QUESTION # 127

A data engineer, User A, has promoted a new pipeline to production by using the REST API to programmatically create several jobs. A DevOps engineer, User B, has configured an external orchestration tool to trigger job runs through the REST API. Both users authorized the REST API calls using their personal access tokens.

Which statement describes the contents of the workspace audit logs concerning these events?

- A. Because User A created the jobs, their identity will be associated with both the job creation [Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from](#) events and the job run events.
- B. Because these events are managed separately, User A will have their identity associated with the job creation events and User B will have their identity associated with the job run events.
- C. Because the REST API was used for job creation and triggering runs, a Service Principal will be automatically used to identify these events.
- D. Because User B last configured the jobs, their identity will be associated with both the job creation events and the job run events.
- E. Because the REST API was used for job creation and triggering runs, user identity will not be captured in the audit logs.

Answer: B

Explanation:

The events are that a data engineer, User A, has promoted a new pipeline to production by using the REST API to programmatically create several jobs, and a DevOps engineer, User B, has configured an external orchestration tool to trigger job runs through the REST API. Both users authorized the REST API calls using their personal access tokens. The workspace audit logs are logs that

record user activities in a Databricks workspace, such as creating, updating, or deleting objects like clusters, jobs, notebooks, or tables. The workspace audit logs also capture the identity of the user who performed each activity, as well as the time and details of the activity.

Because these events are managed separately, User A will have their identity associated with the job creation events and User B will have their identity associated with the job run events in the workspace audit logs.

NEW QUESTION # 128

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