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Databricks Certified Professional Data Engineer is a certification exam that measures individuals' knowledge and skills in using Databricks to manipulate big data. Databricks is a cloud-based data processing platform that allows data engineers to build, deploy, and manage big data processing pipelines. Databricks Certified Professional Data Engineer Exam certification exam is designed to validate the expertise of data engineers who work with Databricks.

Databricks-Certified-Professional-Data-Engineer exam is a specialized test that focuses on assessing the technical skillsets of candidates in working on cloud-based big data projects. Candidates will be required to demonstrate their proficiency in a wide range of topics, including data structures and algorithms, distributed systems, database design, Hadoop and Spark, and machine learning. Databricks-Certified-Professional-Data-Engineer Exam contains multiple-choice questions that test the candidates'

knowledge of these areas.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q138-Q143):

NEW QUESTION # 138

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:

```
CREATE DATABASE finance_eda_db
LOCATION '/mnt/finance_eda_bucket';
GRANT USAGE ON DATABASE finance_eda_db TO finance;
GRANT CREATE ON DATABASE finance_eda_db TO finance;
```

After the database was successfully created and permissions configured, a member of the finance team runs the following code:

```
CREATE TABLE finance_eda_db.tx_sales AS
SELECT *
FROM sales
WHERE state = "TX";
```

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

Answer: B

Explanation:

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

NEW QUESTION # 139

A data engineer is configuring a pipeline that will potentially see late-arriving, duplicate records.

In addition to de-duplicating records within the batch, which of the following approaches allows the data engineer to deduplicate data against previously processed records as it is inserted into a Delta table?

- A. Rely on Delta Lake schema enforcement to prevent duplicate records.
- **B. Perform an insert-only merge with a matching condition on a unique key.**
- C. VACUUM the Delta table after each batch completes.
- D. Perform a full outer join on a unique key and overwrite existing data.
- E. Set the configuration delta.deduplicate = true.

Answer: B

Explanation:

Explanation

To deduplicate data against previously processed records as it is inserted into a Delta table, you can use the merge operation with an insert-only clause. This allows you to insert new records that do not match any existing records based on a unique key, while ignoring duplicate records that match existing records. For example, you can use the following syntax:

```
MERGE INTO target_table USING source_table ON target_table.unique_key = source_table.unique_key WHEN NOT
MATCHED THEN INSERT *
```

This will insert only the records from the source table that have a unique key that is not present in the target table, and skip the records that have a matching key. This way, you can avoid inserting duplicate records into the Delta table.

References:

<https://docs.databricks.com/delta/delta-update.html#upsert-into-a-table-using-merge>

NEW QUESTION # 140

When scheduling Structured Streaming jobs for production, which configuration automatically recovers from query failures and keeps costs low?

- A. Cluster: Existing All-Purpose Cluster;
Retries: None;
Maximum Concurrent Runs: 1
- B. Cluster: New Job Cluster;
Retries: None;
Maximum Concurrent Runs: 1
- **C. Cluster: New Job Cluster;
Retries: Unlimited;
Maximum Concurrent Runs: 1**
- D. Cluster: New Job Cluster;
Retries: Unlimited;
Maximum Concurrent Runs: Unlimited
- E. Cluster: Existing All-Purpose Cluster;
Retries: Unlimited;
Maximum Concurrent Runs: 1

Answer: C

Explanation:

Maximum concurrent runs: Set to 1. There must be only one instance of each query concurrently active. Retries: Set to Unlimited.
<https://docs.databricks.com/en/structured-streaming/query-recovery.html>

NEW QUESTION # 141

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 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 User B last configured the jobs, their identity will be associated with both the job creation events and the job run events.
- D. Because the REST API was used for job creation and triggering runs, a Service Principal will be automatically used to identify these 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

NEW QUESTION # 142

A CHECK constraint has been successfully added to the Delta table named activity_details using the following logic:

A batch job is attempting to insert new records to the table, including a record where latitude = 45.50 and longitude = 212.67.

Which statement describes the outcome of this batch insert?

- A. The write will include all records in the target table; any violations will be indicated in the boolean column named valid_coordinates.
- B. The write will insert all records except those that violate the table constraints; the violating records will be recorded to a quarantine table.
- C. The write will fail when the violating record is reached; any records previously processed will be recorded to the target table.
- **D. The write will fail completely because of the constraint violation and no records will be inserted into the target table.**

- E. The write will insert all records except those that violate the table constraints; the violating records will be reported in a warning log.

Answer: D

Explanation:

The CHECK constraint is used to ensure that the data inserted into the table meets the specified conditions. In this case, the CHECK constraint is used to ensure that the latitude and longitude values are within the specified range. If the data does not meet the specified conditions, the write operation will fail completely and no records will be inserted into the target table. This is because Delta Lake supports ACID transactions, which means that either all the data is written or none of it is written. Therefore, the batch insert will fail when it encounters a record that violates the constraint, and the target table will not be updated. References:

* Constraints: <https://docs.delta.io/latest/delta-constraints.html>

* ACID Transactions: <https://docs.delta.io/latest/delta-intro.html#acid-transactions>

NEW QUESTION # 143

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