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Databricks Certified Data Engineer Professional Exam Sample Questions (Q79-Q84):

NEW QUESTION # 79

A platform engineer is creating catalogs and schemas for the development team to use.

The engineer has created an initial catalog, `catalog_A`, and initial schema, `schema_A`. The engineer has also granted `USE CATALOG`, `USE SCHEMA`, and `CREATE TABLE` to the development team so that the engineer can begin populating the schema with new tables.

Despite being owner of the catalog and schema, the engineer noticed that they do not have access to the underlying tables in `Schema_A`.

What explains the engineer's lack of access to the underlying tables?

- A. The platform engineer needs to execute a `REFRESH` statement as the table permissions did not automatically update for

owners.

- B. Permissions explicitly given by the table creator are the only way the Platform Engineer could access the underlying tables in their schema.
- C. Users granted with USE CATALOG can modify the owner's permissions to downstream tables.
- D. The owner of the schema does not automatically have permission to tables within the schema, but can grant them to themselves at any point.

Answer: D

Explanation:

In Databricks, owning a catalog or schema does not automatically grant access to the tables within it. Table-level permissions are separate, so even the schema or catalog owner must be explicitly granted privileges on individual tables or use the ability to grant themselves access.

NEW QUESTION # 80

The data governance team is reviewing user for deleting records for compliance with GDPR. The following logic has been implemented to propagate deleted requests from the user_lookup table to the user_aggregate table.

```
(spark.read
  .format("delta")
  .option("readChangeData", True)
  .option("startingTimestamp", '2021-08-22 00:00:00')
  .option("endingTimestamp", '2021-08-29 00:00:00')
  .table("user_lookup")
  .createOrReplaceTempView("changes"))

spark.sql("""
DELETE FROM user_aggregates
WHERE user_id IN (
SELECT user_id
FROM changes
WHERE _change_type='delete'
)
""")
```

Assuming that user_id is a unique identifying key and that all users have requested deletion have been removed from the user_lookup table, which statement describes whether successfully executing the above logic guarantees that the records to be deleted from the user_aggregates table are no longer accessible and why?

- A. No; the change data feed only tracks inserts and updates not deleted records.
- B. Yes; the change data feed uses foreign keys to ensure delete consistency throughout the Lakehouse.
- C. Yes; Delta Lake ACID guarantees provide assurance that the DELETE command succeeded fully and permanently purged these records.
- D. No; files containing deleted records may still be accessible with time travel until a BACUM command is used to remove invalidated data files.
- E. No; the Delta Lake DELETE command only provides ACID guarantees when combined with the MERGE INTO command

Answer: D

Explanation:

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The DELETE operation in Delta Lake is ACID compliant, which means that once the operation is successful, the records are logically removed from the table. However, the underlying files that contained these records may still exist and be accessible via time travel to older versions of the table. To ensure that these records are physically removed and compliance with GDPR is maintained,

a VACUUM command should be used to clean up these data files after a certain retention period. The VACUUM command will remove the files from the storage layer, and after this, the records will no longer be accessible.

NEW QUESTION # 81

The data engineer is using Spark's MEMORY_ONLY storage level. Which indicators should the data engineer look for in the spark UI's Storage tab to signal that a cached table is not performing optimally?

- A. The RDD Block Name included the " annotation signaling failure to cache
- **B. Size on Disk is > 0**
- C. On Heap Memory Usage is within 75% of off Heap Memory usage
- D. Size on Disk is < Size in Memory
- E. The number of Cached Partitions > the number of Spark Partitions

Answer: B

Explanation:

When using Spark's MEMORY_ONLY storage level, the ideal scenario is that the data is fully cached in memory, and the Size on Disk should be 0 (indicating that the data is not spilled to disk). If the Size on Disk is greater than 0, it suggests that some data has been spilled to disk, which can lead to degraded performance as reading from disk is slower than reading from memory.

NEW QUESTION # 82

The data governance team is reviewing user for deleting records for compliance with GDPR. The following logic has been implemented to propagate deleted requests from the user_lookup table to the user_aggregate table.

```
(spark.read
  .format("delta")
  .option("readChangeData", True)
  .option("startingTimestamp", '2021-08-22 00:00:00')
  .option("endingTimestamp", '2021-08-29 00:00:00')
  .table("user_lookup")
  .createOrReplaceTempView("changes"))
```

```
spark.sql("""
DELETE FROM user_aggregates
WHERE user_id IN (
  SELECT user_id
  FROM changes
  WHERE _change_type='delete'
)
""")
```

Assuming that user_id is a unique identifying key and that all users have requested deletion have been removed from the user_lookup table, which statement describes whether successfully executing the above logic guarantees that the records to be deleted from the user_aggregates table are no longer accessible and why?

- A. No; the change data feed only tracks inserts and updates not deleted records.
- B. Yes; the change data feed uses foreign keys to ensure delete consistency throughout the Lakehouse.
- C. Yes; Delta Lake ACID guarantees provide assurance that the DELETE command succeeded fully and permanently purged these records.
- **D. No; files containing deleted records may still be accessible with time travel until a VACUUM command is used to remove invalidated data files.**
- E. No; the Delta Lake DELETE command only provides ACID guarantees when combined with the MERGE INTO command

Answer: D

Explanation:

The DELETE operation in Delta Lake is ACID compliant, which means that once the operation is successful, the records are logically removed from the table. However, the underlying files that contained these records may still exist and be accessible via time travel to older versions of the table. To ensure that these records are physically removed and compliance with GDPR is maintained, a VACUUM command should be used to clean up these data files after a certain retention period. The VACUUM command will remove the files from the storage layer, and after this, the records will no longer be accessible.

NEW QUESTION # 83

A security team wants to enforce data protection for a customer table containing customer PII data. To comply with local policies, sales team members should only see customers from their region, while non-admin users should have email addresses masked. Which implementation approach should be used when using Unity Catalog row filters and column masks?

- A. Create SQL UDFs for row filtering based on user region and column masking based on group membership, then apply them using ALTER TABLE SET ROW FILTER and ALTER COLUMN SET MASK commands.
- B. Create a view with dynamic WHERE clauses for region filtering and use string replacement functions for email masking using ALTER COLUMN SET MASK command.
- C. Implement row filters with SQL UDFs based on user region only since column masks cannot be combined with row filters on the same table, then apply them by recreating the table with DROP TABLE and CREATE TABLE SET ROW FILTER commands.
- D. Use table ACLs to restrict access using tags with GRANT SELECT ON table_name WITH TAG command, and rely on application-level filtering for sensitive data based on user region.

Answer: A

Explanation:

Unity Catalog enforces fine-grained access control by applying SQL UDF-based row filters and column masks directly at the table level. Row filter UDFs can restrict visible rows based on the user's region, while column mask UDFs can dynamically mask sensitive fields like email addresses for non-admin users. Applying them with ALTER TABLE SET ROW FILTER and ALTER COLUMN SET MASK ensures centralized, consistent enforcement of data protection policies across all access paths.

NEW QUESTION # 84

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