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Certification Databricks Databricks-Certified-Professional-Data-Engineer Questions, Databricks-Certified-Professional-Data-Engineer Valid Test Syllabus

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Databricks Certified Professional Data Engineer Certification Exam can be attempted by professionals and students who have experience in data engineering, data management, ETL, and data processing. The preparation for the exam can be done via online

training courses such as the Databricks Data Engineering Certification Preparation Course, the online Databricks Documentation, and different study materials such as books and videos from verified training providers.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q68-Q73):

NEW QUESTION # 68
Which of the following commands can be used to query a delta table?

- A. 1.%python
  2.execute.sql("select * from table")
- B. Both A & B
  (Correct)
- C. 1.%python
  2.spark.sql("select * from table_name")
- D. 1.%python
  2.delta.sql("select * from table")
- E. 1.%sql
  2.Select * from table_name

Answer: B

Explanation:
Explanation
The answer is both options A and B
Options C and D are incorrect because there is no command in Spark called execute.sql or delta.sql

NEW QUESTION # 69
Review the following error traceback:

Which statement describes the error being raised?

- A. There is a type error because a DataFrame object cannot be multiplied.
- B. The code executed was PvSoark but was executed in a Scala notebook.
- C. There is no column in the table named heartrateheartrateheartrate
- D. There is a syntax error because the heartrate column is not correctly identified as a column.
- E. There is a type error because a column object cannot be multiplied.

Answer: C

Explanation:
The error being raised is an AnalysisException, which is a type of exception that occurs when Spark SQL cannot analyze or execute a query due to some logical or semantic error1. In this case, the error message indicates that the query cannot resolve the column name 'heartrateheartrateheartrate' given the input columns 'heartrate' and 'age'. This means that there is no column in the table named 'heartrateheartrateheartrate', and the query is invalid. A possible cause of this error is a typo or a copy-paste mistake in the query. To fix this error, the query should use a valid column name that exists in the table, such as 'heartrate'. Reference: AnalysisException

NEW QUESTION # 70
In order to prevent accidental commits to production data, a senior data engineer has instituted a policy that all development work will reference clones of Delta Lake tables. After testing both deep and shallow clone, development tables are created using shallow clone.
A few weeks after initial table creation, the cloned versions of several tables implemented as Type 1 Slowly Changing Dimension (SCD) stop working. The transaction logs for the source tables show that vacuum was run the day before.
Why are the cloned tables no longer working?

- A. The data files compacted by vacuum are not tracked by the cloned metadata; running refresh on the cloned table will pull in recent changes.
- B. Because Type 1 changes overwrite existing records, Delta Lake cannot guarantee data consistency for cloned tables.
- C. The metadata created by the clone operation is referencing data files that were purged as invalid by the vacuum command
- D. Running vacuum automatically invalidates any shallow clones of a table; deep clone should always be used when a cloned table will be repeatedly queried.

Answer: C

Explanation:
In Delta Lake, a shallow clone creates a new table by copying the metadata of the source table without duplicating the data files. When the vacuum command is run on the source table, it removes old data files that are no longer needed to maintain the transactional log's integrity, potentially including files referenced by the shallow clone's metadata. If these files are purged, the shallow cloned tables will reference non-existent data files, causing them to stop working properly. This highlights the dependency of shallow clones on the source table's data files and the impact of data management operations like vacuum on these clones.
Reference: Databricks documentation on Delta Lake, particularly the sections on cloning tables (shallow and deep cloning) and data retention with the vacuum command (https://docs.databricks.com/delta/index.html).

NEW QUESTION # 71
A Delta Lake table was created with the below query:

```
CREATE TABLE prod.sales_by_store
AS (
  SELECT *
  FROM prod.sales a
  INNER JOIN prod.store b
  ON a.store_id = b.store_id
)
```


Consider the following query:
DROP TABLE prod.sales_by_store -
If this statement is executed by a workspace admin, which result will occur?

- A. The table will be removed from the catalog and the data will be deleted.
- B. Nothing will occur until a COMMIT command is executed.

- C. Data will be marked as deleted but still recoverable with Time Travel.
- D. An error will occur because Delta Lake prevents the deletion of production data.
- E. The table will be removed from the catalog but the data will remain in storage.

Answer: A

Explanation:
When a table is dropped in Delta Lake, the table is removed from the catalog and the data is deleted. This is because Delta Lake is a transactional storage layer that provides ACID guarantees. When a table is dropped, the transaction log is updated to reflect the deletion of the table and the data is deleted from the underlying storage. References:
* https://docs.databricks.com/delta/quick-start.html#drop-a-table
* https://docs.databricks.com/delta/delta-batch.html#drop-table

NEW QUESTION # 72
When scheduling Structured Streaming jobs for production, which configuration automatically recovers from query failures and keeps costs low?

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

Answer: E

Explanation:
The configuration that automatically recovers from query failures and keeps costs low is to use a new job cluster, set retries to unlimited, and set maximum concurrent runs to 1. This configuration has the following advantages:
A new job cluster is a cluster that is created and terminated for each job run. This means that the cluster resources are only used when the job is running, and no idle costs are incurred. This also ensures that the cluster is always in a clean state and has the latest configuration and libraries for the job1.
Setting retries to unlimited means that the job will automatically restart the query in case of any failure, such as network issues, node failures, or transient errors. This improves the reliability and availability of the streaming job, and avoids data loss or inconsistency2.
Setting maximum concurrent runs to 1 means that only one instance of the job can run at a time. This prevents multiple queries from competing for the same resources or writing to the same output location, which can cause performance degradation or data corruption3.
Therefore, this configuration is the best practice for scheduling Structured Streaming jobs for production, as it ensures that the job is resilient, efficient, and consistent.

NEW QUESTION # 73
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