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Databricks Certified Professional Data Engineer Exam Sample Questions (Q199-Q204):

NEW QUESTION # 199

A user wants to use DLT expectations to validate that a derived table report contains all records from the source, included in the table validation_copy.

The user attempts and fails to accomplish this by adding an expectation to the report table definition.

Which approach would allow using DLT expectations to validate all expected records are present in this table?

- A. Define a SQL UDF that performs a left outer join on two tables, and check if this returns null values for report key values in a DLT expectation for the report table.
- B. Define a function that performs a left outer join on validation_copy and report and report, and check against the result in a DLT expectation for the report table
- C. Define a view that performs a left outer join on validation_copy and report, and reference this view in DLT expectations for the report table

- D. Define a temporary table that perform a left outer join on validation_copy and report, and define an expectation that no report key values are null

Answer: C

Explanation:

To validate that all records from the source are included in the derived table, creating a view that performs a left outer join between the validation_copy table and the report table is effective. The view can highlight any discrepancies, such as null values in the report table's key columns, indicating missing records. This view can then be referenced in DLT (Delta Live Tables) expectations for the report table to ensure data integrity. This approach allows for a comprehensive comparison between the source and the derived table.

Reference:

Databricks Documentation on Delta Live Tables and Expectations: Delta Live Tables Expectations

NEW QUESTION # 200

John Smith is a newly joined team member in the Marketing team who currently has access read access to sales tables but does not have access to delete rows from the table, which of the following commands help you accomplish this?

- A. GRANT DELETE ON TABLE table_name TO john.smith@marketing.com
- B. GRANT MODIFY ON TABLE table_name TO john.smith@marketing.com
- C. GRANT DELETE TO TABLE table_name ON john.smith@marketing.com
- D. GRANT MODIFY TO TABLE table_name ON john.smith@marketing.com
- E. GRANT USAGE ON TABLE table_name TO john.smith@marketing.com

Answer: B

Explanation:

Explanation

The answer is GRANT MODIFY ON TABLE table_name TO john.smith@marketing.com, please note INSERT, UPDATE, and DELETE are combined into one role called MODIFY.

Below are the list of privileges that can be granted to a user or a group, SELECT: gives read access to an object.

CREATE: gives the ability to create an object (for example, a table in a schema).

MODIFY: gives the ability to add, delete, and modify data to or from an object.

USAGE: does not give any abilities, but is an additional requirement to perform any action on a schema object.

READ_METADATA: gives the ability to view an object and its metadata.

CREATE_NAMED_FUNCTION: gives the ability to create a named UDF in an existing catalog or schema.

MODIFY_CLASSPATH: gives the ability to add files to the Spark classpath.

ALL PRIVILEGES: gives all privileges (is translated into all the above privileges)

NEW QUESTION # 201

The data science team has created and logged a production using MLflow. The model accepts a list of column names and returns a new column of type DOUBLE.

The following code correctly imports the production model, load the customer table containing the customer_id key column into a Dataframe, and defines the feature columns needed for the model.

□ Which code block will output DataFrame with the schema "customer_id LONG, predictions DOUBLE"?

- A. Df. Select ("customer_id"). Model ("columns") alias ("predictions")
- B. Model, predict (df, columns)
- C. Df.apply(model, columns). Select ("customer_id, prediction")
- D. Df, map (lambda k:midel (x [columns]), select ("customer_id predictions"))

Answer: B

Explanation:

Given the information that the model is registered with MLflow and assuming predict is the method used to apply the model to a set of columns, we use the model.predict() function to apply the model to the DataFrame df using the specified columns. The model.predict() function is designed to take in a DataFrame and a list of column names as arguments, applying the trained model to these features to produce a predictions column.

When working with PySpark, this predictions column needs to be selected alongside the customer_id to create a new DataFrame with the schema customer_id LONG, predictions DOUBLE.

References:

- * MLflow documentation on using Python function models:
<https://www.mlflow.org/docs/latest/models.html#python-function-python>
- * PySpark MLlib documentation on model prediction:
<https://spark.apache.org/docs/latest/ml-pipeline.html#pipeline>

NEW QUESTION # 202

Which of the following functions can be used to convert JSON string to Struct data type?

- A. `FROM_JSON` (json value, schema of json)
- B. `TO_STRUCT` (json value)
- C. `CONVERT` (json value, schema of json)
- D. `CAST` (json value as STRUCT)
- E. `FROM_JSON` (json value)

Answer: A

Explanation:

Explanation

Syntax

Copy

1. `from_json(jsonStr, schema [, options])`

Arguments

*`jsonStr`: A STRING expression specifying a row of CSV data.

*`schema`: A STRING literal or invocation of `schema_of_json` function (Databricks SQL).

*`options`: An optional MAP<STRING,STRING> literal specifying directives.

Refer documentation for more details,

https://docs.microsoft.com/en-us/azure/databricks/sql/language-manual/functions/from_json

NEW QUESTION # 203

The following code has been migrated to a Databricks notebook from a legacy workload:

The code executes successfully and provides the logically correct results, however, it takes over 20 minutes to extract and load around 1 GB of data.

Which statement is a possible explanation for this behavior?

- A. `%sh` executes shell code on the driver node. The code does not take advantage of the worker nodes or Databricks optimized Spark.
- B. Python will always execute slower than Scala on Databricks. The `run.py` script should be refactored to Scala.
- C. `%sh` triggers a cluster restart to collect and install Git. Most of the latency is related to cluster startup time.
- D. Instead of cloning, the code should use `%sh pip install` so that the Python code can get executed in parallel across all nodes in a cluster.
- E. `%sh` does not distribute file moving operations; the final line of code should be updated to use `%fs` instead.

Answer: A

Explanation:

<https://www.databricks.com/blog/2020/08/31/introducing-the-databricks-web-terminal.html> The code is using `%sh` to execute shell code on the driver node. This means that the code is not taking advantage of the worker nodes or Databricks optimized Spark. This is why the code is taking longer to execute. A better approach would be to use Databricks libraries and APIs to read and write data from Git and DBFS, and to leverage the parallelism and performance of Spark. For example, you can use the Databricks Connect feature to run your Python code on a remote Databricks cluster, or you can use the Spark Git Connector to read data from Git repositories as Spark DataFrames.

NEW QUESTION # 204

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