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Databricks Certified Professional Data Engineer certification exam is a highly sought-after certification in the data engineering industry. It is designed to test the skills and knowledge of data engineers who work with Databricks, a cloud-based platform that helps organizations manage large amounts of data and perform advanced analytics.

Databricks Certified Professional Data Engineer Exam Sample Questions (Q93-Q98):

NEW QUESTION # 93

A junior data engineer needs to create a Spark SQL table `my_table` for which Spark manages both the data and

the metadata. The metadata and data should also be stored in the Databricks Filesystem (DBFS). Which of the following commands should a senior data engineer share with the junior data engineer to complete this task?

- A. 1. CREATE TABLE my_table (id STRING, value STRING);
- B. 1. CREATE TABLE my_table (id STRING, value STRING) USING DBFS;
- C. 1. CREATE MANAGED TABLE my_table (id STRING, value STRING) USING 2. org.apache.spark.sql.parquet OPTIONS (PATH "storage-path");
- D. 1. CREATE TABLE my_table (id STRING, value STRING) USING 2. org.apache.spark.sql.parquet OPTIONS (PATH "storage-path")
- E. 1. CREATE MANAGED TABLE my_table (id STRING, value STRING);

Answer: A

NEW QUESTION # 94

A junior member of the data engineering team is exploring the language interoperability of Databricks notebooks. The intended outcome of the below code is to register a view of all sales that occurred in countries on the continent of Africa that appear in the geo_lookup table.

Before executing the code, running SHOW TABLES on the current database indicates the database contains only two tables: geo_lookup and sales.

```
Cmd 1
%python
countries_af = [x[0] for x in
spark.table("geo_lookup").filter("continent='AF'").select("country").collect()]

Cmd 2
%sql
CREATE VIEW sales_af AS
SELECT *
FROM sales
WHERE city IN countries_af
AND CONTINENT = "AF"
```

Which statement correctly describes the outcome of executing these command cells in order in an interactive notebook?

- A. Cmd 1 will succeed and Cmd 2 will fail, countries at will be a Python variable representing a PySpark DataFrame.
- B. Both commands will fail. No new variables, tables, or views will be created.
- C. Cmd 1 will succeed. Cmd 2 will search all accessible databases for a table or view named countries af: if this entity exists, Cmd 2 will succeed.
- D. Both commands will succeed. Executing show tables will show that countries at and sales at have been registered as views.
- E. Cmd 1 will succeed and Cmd 2 will fail, countries at will be a Python variable containing a list of strings.

Answer: E

Explanation:

This is the correct answer because Cmd 1 is written in Python and uses a list comprehension to extract the country names from the geo_lookup table and store them in a Python variable named countries af. This variable will contain a list of strings, not a PySpark DataFrame or a SQL view. Cmd 2 is written in SQL and tries to create a view named sales af by selecting from the sales table where city is in countries af. However, this command will fail because countries af is not a valid SQL entity and cannot be used in a SQL query. To fix this, a better approach would be to use spark.sql() to execute a SQL query in Python and pass the countries af variable as a parameter. Verified References: [Databricks Certified Data Engineer Professional], under "Language Interoperability" section; Databricks Documentation, under "Mix languages" section.

NEW QUESTION # 95

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

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

Answer: B

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 # 96

The data engineering team has configured a Databricks SQL query and alert to monitor the values in a Delta Lake table.

The recent_sensor_recording table contains an identifying sensor_id alongside the timestamp and temperature for the most recent 5 minutes of recordings.

The below query is used to create the alert:

```
SELECT MEAN(temperature), MAX(temperature), MIN(temperature)
FROM recent_sensor_recordings
GROUP BY sensor_id
```

The query is set to refresh each minute and always completes in less than 10 seconds. The alert is set to trigger when mean(temperature) > 120. Notifications are triggered to be sent at most every 1 minute.

If this alert raises notifications for 3 consecutive minutes and then stops, which statement must be true?

- A. The source query failed to update properly for three consecutive minutes and then restarted
- **B. The average temperature recordings for at least one sensor exceeded 120 on three consecutive executions of the query**
- C. The recent_sensor_recording table was unresponsive for three consecutive runs of the query
- D. The total average temperature across all sensors exceeded 120 on three consecutive executions of the query
- E. The maximum temperature recording for at least one sensor exceeded 120 on three consecutive executions of the query

Answer: B

Explanation:

This is the correct answer because the query is using a GROUP BY clause on the sensor_id column, which means it will calculate the mean temperature for each sensor separately. The alert will trigger when the mean temperature for any sensor is greater than 120, which means at least one sensor had an average temperature above 120 for three consecutive minutes. The alert will stop when the mean temperature for all sensors drops below 120. Verified References: [Databricks Certified Data Engineer Professional], under "SQL Analytics" section; Databricks Documentation, under "Alerts" section.

NEW QUESTION # 97

A data analyst has provided a data engineering team with the following Spark SQL query:

1. SELECT district,

2. avg(sales)

3. FROM store_sales_20220101

4. GROUP BY district;

The data analyst would like the data engineering team to run this query every day. The date at the end of the table name (20220101) should automatically be replaced with the current date each time the query is run.

Which of the following approaches could be used by the data engineering team to efficiently auto-mate this process?

- A. They could replace the string-formatted date in the table with a timestamp-formatted date
- B. They could pass the table into PySpark and develop a robustly tested module on the existing query
- C. They could request that the data analyst rewrites the query to be run less frequently
- D. They could manually replace the date within the table name with the current day's date
- **E. They could wrap the query using PySpark and use Python's string variable system to automatically update the table name**

Answer: E

NEW QUESTION # 98

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