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Databricks Certified Professional Data Engineer Exam Sample Questions (Q196-Q201):

NEW QUESTION # 196

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:

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

If all users on the finance team are members of thefinancegroup, 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. A managed table will be created in the DBFS root storage container.
- C. A logical table will persist the query plan to the Hive Metastore in the Databricks control plane.
- **D. An managed table will be created in the storage container mounted to /mnt/finance eda bucket.**
- E. An external table will be created in the storage container mounted to /mnt/finance eda bucket.

Answer: D

Explanation:

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

NEW QUESTION # 197

An upstream system has been configured to pass the date for a given batch of data to the Databricks Jobs API as a parameter. The notebook to be scheduled will use this parameter to load data with the following code:

```
df = spark.read.format("parquet").load(f"/mnt/source/{date}")
```

Which code block should be used to create the date Python variable used in the above code block?

- A. `import sys`
`date = sys.argv[1]`
- B. `date = spark.conf.get("date")`
- C. `input_dict = input()`
`date = input_dict["date"]`
- **D. `dbutils.widgets.text("date", "null")`
`date = dbutils.widgets.get("date")`**
- E. `date = dbutils.notebooks.getParam("date")`

Answer: D

Explanation:

The code block that should be used to create the date Python variable used in the above code block is:

`dbutils.widgets.text("date", "null")`
`date = dbutils.widgets.get("date")`
This code block uses the `dbutils.widgets` API to create and get a text widget named "date" that can accept a string value as a parameter¹. The default value of the widget is "null", which means that if no parameter is passed, the date variable will be "null". However, if a parameter is passed through the Databricks Jobs API, the date variable will be assigned the value of the parameter. For example, if the parameter is "2021-11-01", the date variable will be "2021-11-01". This way, the notebook can use the date variable to load data from the specified path.

The other options are not correct, because:

Option A is incorrect because `spark.conf.get("date")` is not a valid way to get a parameter passed through the Databricks Jobs API.

The `spark.conf` API is used to get or set Spark configuration properties, not notebook parameters².

Option B is incorrect because `input()` is not a valid way to get a parameter passed through the Databricks Jobs API. The `input()` function is used to get user input from the standard input stream, not from the API request³.

Option C is incorrect because `sys.argv1` is not a valid way to get a parameter passed through the Databricks Jobs API. The `sys.argv` list is used to get the command-line arguments passed to a Python script, not to a notebook⁴.

Option D is incorrect because `dbutils.notebooks.getParam("date")` is not a valid way to get a parameter passed through the Databricks Jobs API. The `dbutils.notebooks` API is used to get or set notebook parameters when running a notebook as a job or as a subnotebook, not when passing parameters through the API⁵.

NEW QUESTION # 198

The `viewupdates` represents an incremental batch of all newly ingested data to be inserted or updated in the `customerstable`.

The following logic is used to process these records.

Which statement describes this implementation?

- **A. The customers table is implemented as a Type 2 table; old values are maintained but marked as no longer current and new values are inserted.**
- B. The customers table is implemented as a Type 0 table; all writes are append only with no changes to existing values.
- C. The customers table is implemented as a Type 2 table; old values are overwritten and new customers are appended.
- D. The customers table is implemented as a Type 3 table; old values are maintained as a new column alongside the current value.

- E. The customers table is implemented as a Type 1 table; old values are overwritten by new values and no history is maintained.

Answer: A

Explanation:

The logic uses the MERGE INTO command to merge new records from the view updates into the table customers. The MERGE INTO command takes two arguments: a target table and a source table or view. The command also specifies a condition to match records between the target and the source, and a set of actions to perform when there is a match or not. In this case, the condition is to match records by customer_id, which is the primary key of the customers table. The actions are to update the existing record in the target with the new values from the source, and set the current_flag to false to indicate that the record is no longer current; and to insert a new record in the target with the new values from the source, and set the current_flag to true to indicate that the record is current. This means that old values are maintained but marked as no longer current and new values are inserted, which is the definition of a Type 2 table. Verified References: [Databricks Certified Data Engineer Professional], under "Delta Lake" section; Databricks Documentation, under "Merge Into (Delta Lake on Databricks)" section.

NEW QUESTION # 199

A workspace admin has created a new catalog called finance_data and wants to delegate permission management to a finance team lead without giving them full admin rights.

Which privilege should be granted to the finance team lead?

- A. Make the finance team lead a metastore admin.
- B. ALL PRIVILEGES on the finance_data catalog.
- C. GRANT OPTION privilege on the finance_data catalog.
- **D. MANAGE privilege on the finance_data catalog.**

Answer: D

Explanation:

The MANAGE privilege in Unity Catalog provides the ability to grant and revoke privileges on the specified object (in this case, a catalog) without giving full administrative access or ownership.

This is the Databricks-recommended approach for delegating governance responsibilities while preserving the principle of least privilege.

By contrast, the ALL PRIVILEGES option grants excessive access (including read and write permissions), and metastore admin status provides global control over all catalogs—far exceeding the requirement. The MANAGE privilege enables the finance team lead to control access to objects within finance_data responsibly while limiting overall administrative exposure.

NEW QUESTION # 200

A user new to Databricks is trying to troubleshoot long execution times for some pipeline logic they are working on. Presently, the user is executing code cell-by-cell, using display() calls to confirm code is producing the logically correct results as new transformations are added to an operation. To get a measure of average time to execute, the user is running each cell multiple times interactively.

Which of the following adjustments will get a more accurate measure of how code is likely to perform in production?

- A. The Jobs UI should be leveraged to occasionally run the notebook as a job and track execution time during incremental code development because Photon can only be enabled on clusters launched for scheduled jobs.
- B. The only way to meaningfully troubleshoot code execution times in development notebooks is to use production-sized data and production-sized clusters with Run All execution.
- C. Scala is the only language that can be accurately tested using interactive notebooks; because the best performance is achieved by using Scala code compiled to JARs, all PySpark and Spark SQL logic should be refactored.
- **D. Calling display () forces a job to trigger, while many transformations will only add to the logical query plan; because of caching, repeated execution of the same logic does not provide meaningful results.**
- E. Production code development should only be done using an IDE; executing code against a local build of open source Spark and Delta Lake will provide the most accurate benchmarks for how code will perform in production.

Answer: D

Explanation:

This is the correct answer because it explains which of the following adjustments will get a more accurate measure of how code is

likely to perform in production. The adjustment is that calling `display()` forces a job to trigger, while many transformations will only add to the logical query plan; because of caching, repeated execution of the same logic does not provide meaningful results. When developing code in Databricks notebooks, one should be aware of how Spark handles transformations and actions. Transformations are operations that create a new DataFrame or Dataset from an existing one, such as filter, select, or join. Actions are operations that trigger a computation on a DataFrame or Dataset and return a result to the driver program or write it to storage, such as count, show, or save. Calling `display()` on a DataFrame or Dataset is also an action that triggers a computation and displays the result in a notebook cell. Spark uses lazy evaluation for transformations, which means that they are not executed until an action is called. Spark also uses caching to store intermediate results in memory or disk for faster access in subsequent actions. Therefore, calling `display()` forces a job to trigger, while many transformations will only add to the logical query plan; because of caching, repeated execution of the same logic does not provide meaningful results. To get a more accurate measure of how code is likely to perform in production, one should avoid calling `display()` too often or clear the cache before running each cell. Verified Reference: [Databricks Certified Data Engineer Professional], under "Spark Core" section; Databricks Documentation, under "Lazy evaluation" section; Databricks Documentation, under "Caching" section.

NEW QUESTION # 201

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