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Databricks Certified Data Engineer Professional Exam Sample Questions (Q177-Q182):

NEW QUESTION # 177

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. `dbutils.widgets.text("date", "null")`
`date = dbutils.widgets.get("date")`**

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

Answer: A

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 parameter. 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.

NEW QUESTION # 178

The business intelligence team has a dashboard configured to track various summary metrics for retail stores. This includes total sales for the previous day alongside totals and averages for a variety of time periods. The fields required to populate this dashboard have the following schema:

□ For Demand forecasting, the Lakehouse contains a validated table of all itemized sales updated incrementally in near real-time. This table named `products_per_order`, includes the following fields:

□ Because reporting on long-term sales trends is less volatile, analysts using the new dashboard only require data to be refreshed once daily. Because the dashboard will be queried interactively by many users throughout a normal business day, it should return results quickly and reduce total compute associated with each materialization.

Which solution meets the expectations of the end users while controlling and limiting possible costs?

- A. Configure a webhook to execute an incremental read against `products_per_order` each time the dashboard is refreshed.
- B. Use Structure Streaming to configure a live dashboard against the `products_per_order` table within a Databricks notebook.
- C. Use the Delta Cache to persist the `products_per_order` table in memory to quickly refresh the dashboard with each query.
- D. Define a view against the `products_per_order` table and define the dashboard against this view.
- E. Populate the dashboard by configuring a nightly batch job to save the required data to quickly update the dashboard with each query.

Answer: E

NEW QUESTION # 179

A data engineer is optimizing a managed Delta table that suffers from data skew and frequently changing query filter columns. The engineer wants to avoid costly data rewrites when query patterns evolve. The table size is under 1 TB. How should the data engineer meet this requirement?

- A. Apply Z-ordering, since it allows flexible reorganization of data layout without rewriting existing files and adapts easily to new filter columns.
- B. Use Hive-style partitioning, as it provides efficient data skipping and is easy to change partition columns at any time.
- C. Enable liquid clustering, as it efficiently handles data skew, allows clustering keys to be changed without rewriting existing data, and adapts to evolving query patterns.
- D. Combine partitioning and Z-ordering to maximize flexibility and minimize maintenance as query patterns change.

Answer: C

Explanation:

Liquid clustering is designed for managed tables under 1TB with evolving query patterns. It efficiently addresses data skew, continuously optimizes data layout, and allows clustering keys to be changed without requiring full data rewrites, making it well suited for frequently changing filter columns while minimizing maintenance overhead.

NEW QUESTION # 180

Each configuration below is identical to the extent that each cluster has 400 GB total of RAM 160 total cores and only one Executor per VM.

Given an extremely long-running job for which completion must be guaranteed, which cluster configuration will be able to guarantee completion of the job in light of one or more VM failures?

- A. - Total VMs: 2
- 200 GB per Executor
- 80 Cores / Executor
- B. - Total VMs: 4
- 100 GB per Executor
- 40 Cores / Executor
- C. - Total VMs: 8
- 50 GB per Executor
- 20 Cores / Executor
- **D. - Total VMs: 16**
- 25 GB per Executor
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- 10 Cores / Executor
- E. - Total VMs: 1
- 400 GB per Executor
- 160 Cores/Executor

Answer: D

Explanation:

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NEW QUESTION # 181

The marketing team is looking to share data in an aggregate table with the sales organization, but the field names used by the teams do not match, and a number of marketing specific fields have not been approved for the sales org.

Which of the following solutions addresses the situation while emphasizing simplicity?

- **A. Create a view on the marketing table selecting only these fields approved for the sales team alias the names of any fields that should be standardized to the sales naming conventions.**
- B. Create a new table with the required schema and use Delta Lake's DEEP CLONE functionality to sync up changes committed to one table to the corresponding table.
- C. Instruct the marketing team to download results as a CSV and email them to the sales organization.
- D. Use a CTAS statement to create a derivative table from the marketing table configure a production job to propagation changes.
- E. Add a parallel table write to the current production pipeline, updating a new sales table that varies Get Latest & Actual Certified-Data-Engineer-Professional Exam's Question and Answers from as required from marketing table.

Answer: A

Explanation:

Creating a view is a straightforward solution that can address the need for field name standardization and selective field sharing between departments. A view allows for presenting a transformed version of the underlying data without duplicating it. In this scenario, the view would only include the approved fields for the sales team and rename any fields as per their naming conventions.

NEW QUESTION # 182

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