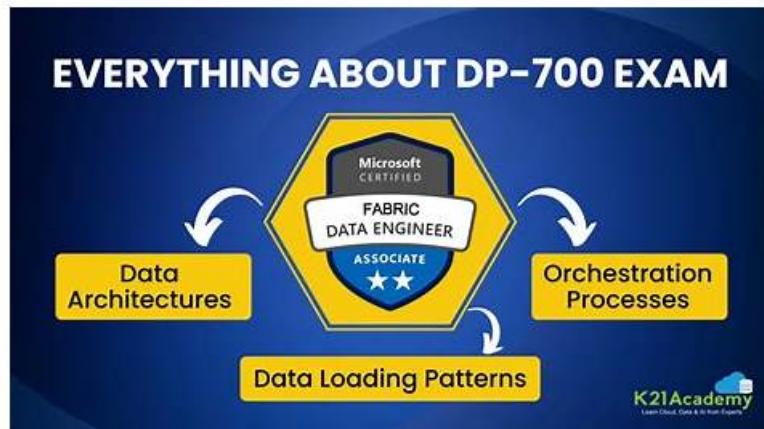


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Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q47-Q52):

NEW QUESTION # 47

You have a Fabric workspace named Workspace1 that contains the following items:

- * A Microsoft Power BI report named Report1
- * A Power BI dashboard named Dashboard1
- * A semantic model named Model1
- * A lakehouse name Lakehouse1

Your company requires that specific governance processes be implemented for the items. Which items can you endorse in Fabric?

- A. Lakehouse1, Model1, and Report1 only
- B. Lakehouse1, Model1, Report1 and Dashboard1
- C. Report1 and Dashboard1 only
- D. Model1, Report1, and Dashboard1 only
- E. Lakehouse1, Model1, and Dashboard1 only

Answer: B

NEW QUESTION # 48

You have a Fabric workspace that contains an eventhouse and a KQL database named Database1. Database1 has the following:

A table named Table1

A table named Table2

An update policy named Policy1

Policy1 sends data from Table1 to Table2.

The following is a sample of the data in Table2.

□ Recently, the following actions were performed on Table1:

An additional element named temperature was added to the StreamData column.

The data type of the Timestamp column was changed to date.

The data type of the DeviceId column was changed to string.

You plan to load additional records to Table2.

Which two records will load from Table1 to Table2? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. □
- B. □
- C. □
- D. □

Answer: A,C

Explanation:

Changes to Table1 Structure:

StreamData column: An additional temperature element was added.

Timestamp column: Data type changed from datetime to date.

DeviceId column: Data type changed from guid to string.

Impact of Changes:

Only records that comply with Table2's structure will load.

Records that deviate from Table2's column data types or structure will be rejected.

Record B:

Timestamp: Matches Table2 (datetime format).

DeviceId: Matches Table2 (guid format).

StreamData: Contains only the index and eventid, which matches Table2.

Accepted because it fully matches Table2's structure and data types.

Record D:

Timestamp: Matches Table2 (datetime format).

DeviceId: Matches Table2 (guid format).

StreamData: Matches Table2's structure.

Accepted because it fully matches Table2's structure and data types.

NEW QUESTION # 49

You have a Fabric workspace that contains a lakehouse named Lakehouse1. Data is ingested into Lakehouse1 as one flat table. The table contains the following columns.

□ You plan to load the data into a dimensional model and implement a star schema. From the original flat table, you create two tables named FactSales and DimProduct. You will track changes in DimProduct.

You need to prepare the data.

Which three columns should you include in the DimProduct table? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. ProductColor
- B. ProductName
- C. Date
- D. SalesAmount
- E. TransactionID
- F. ProductID

Answer: A,B,F

Explanation:

In a star schema, the DimProduct table serves as a dimension table that contains descriptive attributes about products. It will provide context for the FactSales table, which contains transactional data.

* ProductName: The ProductName is an important descriptive attribute of the product, which is needed for analysis and reporting in a dimensional model.

* ProductColor: ProductColor is another descriptive attribute of the product. In a star schema, it makes sense to include attributes like color in the dimension table to help categorize products in the analysis.

* ProductID: ProductID is the primary key for the DimProduct table, which will be used to join the FactSales table to the product dimension. It's essential for uniquely identifying each product in the model.

NEW QUESTION # 50

You have a Fabric F32 capacity that contains a workspace. The workspace contains a warehouse named DW1 that is modelled by using MD5 hash surrogate keys.

DW1 contains a single fact table that has grown from 200 million rows to 500 million rows during the past year.

You have Microsoft Power BI reports that are based on Direct Lake. The reports show year-over-year values.

Users report that the performance of some of the reports has degraded over time and some visuals show errors.

You need to resolve the performance issues. The solution must meet the following requirements:

Provide the best query performance.

Minimize operational costs.

Which should you do?

- A. **Modify the surrogate keys to use a different data type.**
- B. Increase the capacity.
- C. Enable V-Order
- D. Create views.
- D. Change the MD5 hash to SHA256.

Answer: A

Explanation:

In this case, the key issue causing performance degradation likely stems from the use of MD5 hash surrogate keys. MD5 hashes are 128-bit values, which can be inefficient for large datasets like the 500 million rows in your fact table. Using a more efficient data type for surrogate keys (such as integer or bigint) would reduce the storage and processing overhead, leading to better query performance. This approach will improve performance while minimizing operational costs because it reduces the complexity of querying and indexing, as smaller data types are generally faster and more efficient to process.

NEW QUESTION # 51

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a KQL database that contains two tables named Stream and Reference. Stream contains streaming data in the following format.

Reference contains reference data in the following format.

Both tables contain millions of rows.

You have the following KQL queryset.

You need to reduce how long it takes to run the KQL queryset.

Solution: You move the filter to line 02.

Does this meet the goal?

- A. No
- **B. Yes**

Answer: B

Explanation:

Moving the filter to line 02: Filtering the Stream table before performing the join operation reduces the number of rows that need to be processed during the join. This is an effective optimization technique for queries involving large datasets.

NEW QUESTION # 52

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