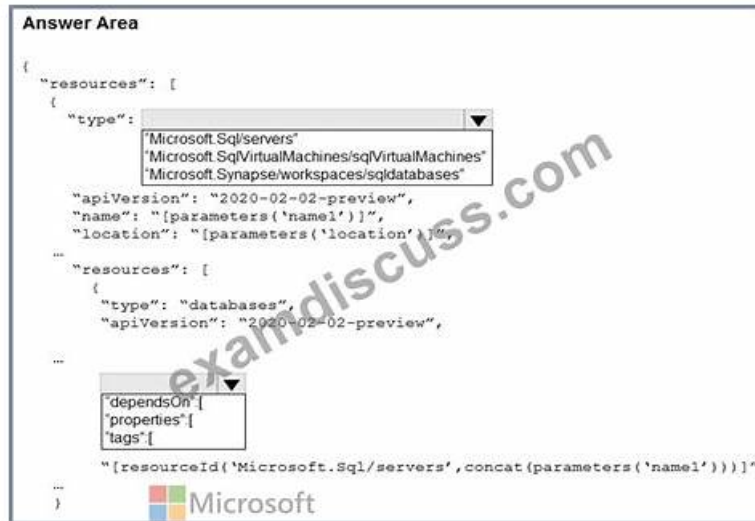


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## Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q72-Q77):

### NEW QUESTION # 72

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.
- C.
- B.
- C.

**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 # 73

You have a Fabric workspace that contains an eventstream named Eventstream1. Eventstream1 processes data from a thermal sensor by using event stream processing, and then stores the data in a lakehouse.

You need to modify Eventstream1 to include the standard deviation of the temperature.

Which transform operator should you include in the Eventstream1 logic?

- A. Union
- B. Group by
- C. Aggregate
- D. Expand

**Answer: C**

Explanation:

To compute the standard deviation of the temperature from the thermal sensor data, you would use the Aggregate transform operator in Eventstream1. The Aggregate operator allows you to apply functions like sum, average, count, and statistical functions like standard deviation across a group of rows or events. This operator is ideal for operations that require summarizing or computing statistics over a dataset, such as calculating the standard deviation.

### NEW QUESTION # 74

You need to ensure that the data analysts can access the gold layer lakehouse.

What should you do?

- A. Add the DataAnalyst group to the Viewer role for WorkspaceA.
- B. Share the lakehouse with the DataAnalysts group and grant the Read all SQL Endpoint data permission.
- C. Share the lakehouse with the DataAnalysts group and grant the Read all Apache Spark permission.
- D. Share the lakehouse with the DataAnalysts group and grant the Build reports on the default semantic model permission.

**Answer: B**

Explanation:

Data Analysts' Access Requirements must only have read access to the Delta tables in the gold layer and not have access to the bronze and silver layers.

The gold layer data is typically queried via SQL Endpoints. Granting the Read all SQL Endpoint data permission allows data analysts to query the data using familiar SQL-based tools while restricting access to the underlying files.

#### **NEW QUESTION # 75**

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

**Answer: B**

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 # 76**

You have a Fabric workspace that contains a warehouse named DW1. DW1 contains the following tables and columns.

You need to create an output that presents the summarized values of all the order quantities by year and product. The results must include a summary of the order quantities at the year level for all the products.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

#### **NEW QUESTION # 77**

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