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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q34-Q39):

NEW QUESTION # 34

You have an Azure Cosmos DB Core (SQL) API account that is configured for multi-region writes. The account contains a database that has two containers named container1 and container2.

The following is a sample of a document in container1:

```
{
  "customerId": 1234,
  "firstName": "John",
  "lastName": "Smith",
  "policyYear": 2021
}
```

The following is a sample of a document in container2:

```
{
  "gpsId": 1234,
  "latitude": 38.8951,
  "longitude": -77.0364
}
```

You need to configure conflict resolution to meet the following requirements:

For container1 you must resolve conflicts by using the highest value for policyYear.

For container2 you must resolve conflicts by accepting the distance closest to latitude: 40.730610 and longitude: -73.935242. Administrative effort must be minimized to implement the solution.

What should you configure for each container? To answer, drag the appropriate configurations to the correct containers. Each

configuration may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

☐ Explanation

☐ Box 1: Last Write Wins (LWW) (default) mode

Last Write Wins (LWW): This resolution policy, by default, uses a system-defined timestamp property. It's based on the time-synchronization clock protocol.

Box 2: Merge Procedures (custom) mode

Custom: This resolution policy is designed for application-defined semantics for reconciliation of conflicts.

When you set this policy on your Azure Cosmos container, you also need to register a merge stored procedure.

This procedure is automatically invoked when conflicts are detected under a database transaction on the server. The system provides exactly once guarantee for the execution of a merge procedure as part of the commitment protocol.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/conflict-resolution-policies>

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/how-to-manage-conflicts>

NEW QUESTION # 35

You need to select the capacity mode and scale configuration for account2 to support the planned changes and meet the business requirements. What should you select? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

☐ Explanation

☐

NEW QUESTION # 36

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account.

You need to provide a user named User1 with the ability to insert items into container1 by using role-based access control (RBAC).

The solution must use the principle of least privilege.

Which roles should you assign to User1?

- A. CosmosDB Operator only
- B. Cosmos DB Built-in Data Contributor only
- C. DocumentDB Account Contributor and Cosmos DB Built-in Data Contributor
- D. DocumentDB Account Contributor only

Answer: A

Explanation:

Cosmos DB Operator: Can provision Azure Cosmos accounts, databases, and containers. Cannot access any data or use Data Explorer.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/role-based-access-control>

NEW QUESTION # 37

You configure Azure Cognitive Search to index a container in an Azure Cosmos DB Core (SQL) API account as shown in the following exhibit.

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Use the drop-down menus to select the answer choice that completes each statement based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

☐

Answer:

Explanation:

□ Explanation

Box 1: country

The country field is filterable.

Note: filterable: Indicates whether to enable the field to be referenced in \$filter queries. Filterable differs from searchable in how strings are handled. Fields of type Edm.String or Collection(Edm.String) that are filterable do not undergo lexical analysis, so comparisons are for exact matches only.

Box 2: name

The name field is not Retrievable.

Retrieval: Indicates whether the field can be returned in a search result. Set this attribute to false if you want to use a field (for example, margin) as a filter, sorting, or scoring mechanism but do not want the field to be visible to the end user.

Note: searchable: Indicates whether the field is full-text searchable and can be referenced in search queries.

Reference: <https://docs.microsoft.com/en-us/rest/api/searchservice/create-index>

NEW QUESTION # 38

You have a container in an Azure Cosmos DB Core (SQL) API account. The container stores telemetry data from IoT devices. The container uses telemetryId as the partition key and has a throughput of 1,000 request units per second (RU/s). Approximately 5,000 IoT devices submit data every five minutes by using the same telemetryId value.

You have an application that performs analytics on the data and frequently reads telemetry data for a single IoT device to perform trend analysis.

The following is a sample of a document in the container.

□ You need to reduce the amount of request units (RUs) consumed by the analytics application.

What should you do?

- A. Move the data to a new container that has a partition key of deviceId.
- B. Decrease the offerThroughput value for the container.
- C. Move the data to a new container that uses a partition key of date.
- D. Increase the offerThroughput value for the container.

Answer: A

Explanation:

□ Explanation

The partition key is what will determine how data is routed in the various partitions by Cosmos DB and needs to make sense in the context of your specific scenario. The IoT Device ID is generally the "natural" partition key for IoT applications.

Reference: <https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/iot-using-cosmos-db>

NEW QUESTION # 39

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