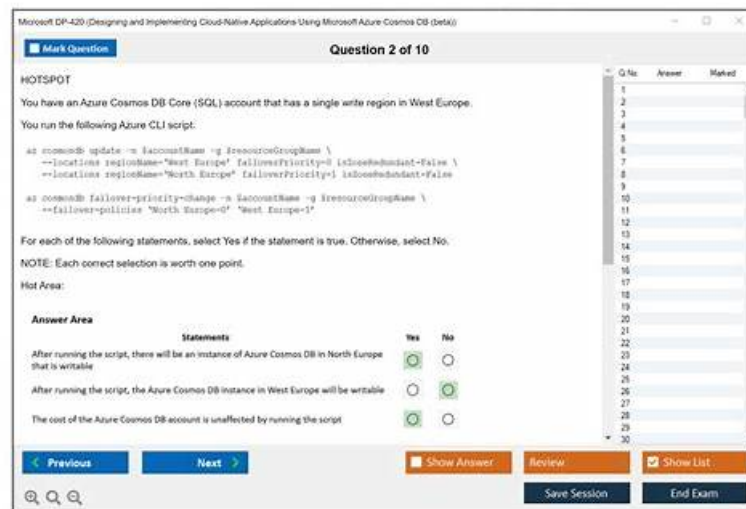# DP-420 Valid Test Testking, DP-420 Vce Test Simulator

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q13-Q18):

NEW QUESTION # 13
You have a database in an Azure Cosmos DB Core (SQL) API account.
You plan to create a container that will store employee data for 5,000 small businesses. Each business will have up to 25 employees.
Each employee item will have an emailAddress value.
You need to ensure that the emailAddress value for each employee within the same company is unique.
To what should you set the partition key and the unique key? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

Box 1: CompanyID

After you create a container with a unique key policy, the creation of a new or an update of an existing item resulting in a duplicate within a logical partition is prevented, as specified by the unique key constraint. The partition key combined with the unique key guarantees the uniqueness of an item within the scope of the container.

For example, consider an Azure Cosmos container with Email address as the unique key constraint and CompanyID as the partition key. When you configure the user's email address with a unique key, each item has a unique email address within a given

CompanyID. Two items can't be created with duplicate email addresses and with the same partition key value.
Box 2: emailAddress
Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/unique-keys

NEW QUESTION # 14
You have an Azure Cosmos DB for NoSQL account.
You plan 10 create a container named container1. The container1 container will store items that include two properties named nm and age The most commonly executed queries will query container1 for a specific name. The following is a sample of the query.

You need to define an opt-in Indexing policy for container1. The solution must meet the following requirements:
* Minimize the number of request units consumed by the queries.
* Ensure that the _etag property is excluded from indexing.
How should you define the indexing poky? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection Is worth one point.

Answer:

Explanation:

```
{
    "automatic":true,
    "indexingMode":"Consistent",
    "includedPaths":[],
    "excludedPaths":       [{"path":"/*"}],      ▼
    "compositeIndexes":[   [],
                           [{"path":"/*"}],
                           [{"path": "/\"_etag\"/?"}],

        [
            {
                "path":       "/name/*",            ▼
                                  "/name",
                "order":"asce     "/name/*",
            },                    "/name/?",
            {
                "path":"/age",
                "order":"descending"
            }
        }
        ]
}
```
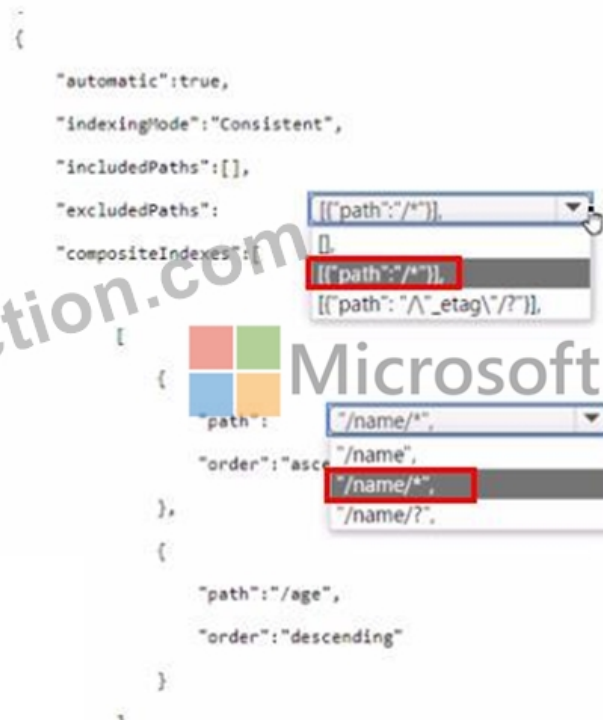
NEW QUESTION # 15

You have an Azure Cosmos DB container named container! that has a provisioned throughput and two physical partitions. You monitor the following metrics for container1

* Normalized RU consumption

* The percentage of requests that have an HTTP status code of 429

You need to confirm that container1 is configured to maximize resource utilization.

What are the optimal values for each metric? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Normalized RU consumption: Below 5%   ▼
                              Below 5%
                              At 50%
                              Reaching 100%

The percentage of requests that have an HTTP status code of 429:   Below 5%   ▼
                              Below 5%
                              At 50%
                              Reaching 100%

Answer:

Explanation:

Answer Area

Normalized RU consumption: `Below 5%` ▼
- **Below 5%**
- At 50%
- Reaching 100%

The percentage of requests that have an HTTP status code of 429: `Below 5%` ▼
- **Below 5%**
- At 50%
- Reaching 100%

Explanation:

Answer Area

Normalized RU consumption: `Below 5%` ▼

The percentage of requests that have an HTTP status code of 429: `Below 5%` ▼

NEW QUESTION # 16

You have a database named db1 in an Azure Cosmos DB for NoSQL

You are designing an application that will use dbl.

In db1, you are creating a new container named coll1 that will store in coll1.

The following is a sample of a document that will be stored in coll1.

```
{
    "customerId" : "bba6fe24-6d97-4935-8d5B-36baa4b8a0e1",
    "orderId" : "9d7816e6-f401-42ba-ad65-0e03de35c0b8",
    "orderDate" : "2022-09-29",
    "orderDetails" : []
}
```

The application will have the following characteristics:

* New orders will be created frequently by different customers.
* Customers will often view their past order history.

You need to select the partition key value for coll1 to support the application. The solution must minimize costs.

To what should you set the partition key?

- A. orderId
- B. orderDate
- C. customerId
- D. id

Answer: B

Explanation:

Based on the characteristics of the application and the provided document structure, the most suitable partition key value for coll1 in the given scenario would be the customerId, Option B.

The application frequently creates new orders by different customers and customers often view their past order history. Using customerId as the partition key would ensure that all orders associated with a particular customer are stored in the same partition. This enables efficient querying of past order history for a specific customer and reduces cross-partition queries, resulting in lower costs and improved performance.

a partition key is a JSON property (or path) within your documents that is used by Azure Cosmos DB to distribute data among multiple partitions3. A partition key should have a high cardinality, which means it should have many distinct values, suchas hundreds or thousands1. A partition key should also align with the most common query patterns of your application, so that you can efficiently retrieve data by using the partition key value1.

Based on these criteria, one possible partition key that you could use for coll1 is B. customerId.

This partition key has the following advantages:
* It has a high cardinality, as each customer will have a unique ID3.
* It aligns with the query patterns of the application, as customers will often view their past order history3.
* It minimizes costs, as it reduces the number of cross-partition queries and optimizes the storage and throughput utilization1.
This partition key also has some limitations, such as:
* It may not be optimal for scenarios where orders need to be queried independently from customers or aggregated by date or other criteria3.
* It may result in hot partitions or throttling if some customers create orders more frequently than others or have more data than others1.
* It may not support transactions across multiple customers, as transactions are scoped to a single logical partition2.
Depending on your specific use case and requirements, you may need to adjust this partition key or choose a different one. For example, you could use a synthetic partition key that concatenates multiple properties of an item2, or you could use a partition key with a random or pre-calculated suffix to distribute the workload more evenly2.

NEW QUESTION # 17
You have a database in an Azure Cosmos DB for NoSQL account that is configured for multi-region writes.
You need to use the Azure Cosmos DB SDK to implement the conflict resolution policy for a container. The solution must ensure that any conflict sent to the conflict feed.
Solution: You set ConfilictResolutionMode to Custom and you use the default settings for the policy.
Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:
Explanation
Setting ConflictResolutionMode to Custom and using the default settings for the policy will not ensure that conflicts are sent to the conflict feed. You need to define a custom stored procedure using the
"conflictingItems" parameter to handle conflicts properly.

NEW QUESTION # 18
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