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DP-420

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To prepare for the Microsoft DP-420 Exam, candidates should have a solid understanding of Azure Cosmos DB, including its features and capabilities. They should also be familiar with cloud-native application development, including design patterns and best practices. Candidates should have practical experience in developing and implementing cloud-native applications using Azure Cosmos DB.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q134-Q139):

NEW QUESTION # 134

You are developing an application that will connect to an Azure Cosmos DB for NoSQL account. The account has a single readme region and one agonal read region. The regions are configured for automatic failover.

The account has the following connect strings. (Line numbers are included for reference only.)

For each of the following statements, select Yes if the statement is true. otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

If the primary write region fails, applications that write to the database must use a different connection string to continue to use the service. = NO You do not need to use a different connection string to continue to use the service if the primary write region fails. This is because Azure Cosmos DB supports automatic failover, which means that it will automatically switch the primary write region to another region in case of a regional outage²

. The application does not need to change the connection string or specify the failover priority³. The connection string contains a list of all the regions associated with your account, and Azure Cosmos DB will route the requests to the appropriate region based on the availability and latency¹.

The primary Read-Only SQL Connection String and the Secondary Read-Only SQL Connection String will connect to different regions from an application running in the East US Azure region = Yes The primary read-only SQL connection string and the secondary read-only SQL connection string will connect to different regions from an application running in the East US Azure region. This is because the primary read-only SQL connection string contains the endpoint for the East US region, which is the same as the primary write region.

The secondary read-only SQL connection string contains the endpoint for the West US region, which is the additional read region. Therefore, if an application running in the East US Azure region uses these connection strings, it will connect to different regions depending on which one it chooses.

Applications can choose from which region by setting the PreferredLocations property within their connection properties = Yes Applications can choose from which region by setting the PreferredLocations property within their connection properties. This property allows you to specify a list of regions that you prefer to read from based on their proximity to your application². Azure Cosmos DB will route the requests to the appropriate region based on the availability and latency¹. You can also set the ApplicationRegion property to the region where your application is deployed, and Azure Cosmos DB will automatically populate the PreferredLocations property based on the geo-proximity from that location¹.

NEW QUESTION # 135

You are designing an Azure Cosmos DB Core (SQL) API solution to store data from IoT devices. Writes from the devices will be occur every second.

The following is a sample of the data.

You need to select a partition key that meets the following requirements for writes:

Minimizes the partition skew

Avoids capacity limits

Avoids hot partitions

What should you do?

- A. Create a new synthetic key that contains deviceId and deviceManufacturer.
- B. Create a new synthetic key that contains deviceId and sensorValue.
- C. Use timestamp as the partition key.
- D. Create a new synthetic key that contains deviceId and a random number.

Answer: D

Explanation:

Use a partition key with a random suffix. Distribute the workload more evenly by appending a random number at the end of the partition key value. When you distribute items in this way, you can perform parallel write operations across partitions.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/synthetic-partition-keys>

NEW QUESTION # 136

You have an Azure Cosmos DB Core (SQL) API account.

You run the following query against a container in the account.

```
SELECT
```

```
IS_NUMBER("1234") AS A,
```

```
IS_NUMBER(1234) AS B,
```

```
IS_NUMBER({prop: 1234}) AS C
```

What is the output of the query?

- A. [{"A": true, "B": true, "C": true}]
- B. [{"A": true, "B": false, "C": true}]
- C. [{"A": true, "B": true, "C": false}]
- D. [{"A": false, "B": true, "C": false}]

Answer: D

Explanation:

Explanation

IS_NUMBER returns a Boolean value indicating if the type of the specified expression is a number.

"1234" is a string, not a number.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/sql-query-is-number>

NEW QUESTION # 137

You provision Azure resources by using the following Azure Resource Manager (ARM) template.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

☐

NEW QUESTION # 138

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

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.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/unique-keys>

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