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>> DP-420 Interactive EBook <<

100% Pass Quiz 2025 Microsoft DP-420: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Newest Interactive EBook

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q102-Q107):

NEW QUESTION # 102
You have a database named telemetry in an Azure Cosmos DB Core (SQL) API account that stores IoT data.
The database contains two containers named readings and devices.
Documents in readings have the following structure.
id
deviceid
timestamp
ownerid
measures (array)
- type
- value
- metricid
Documents in devices have the following structure.
id
deviceid

owner
- ownerid
- emailaddress
- name
brand
model

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
To return for all devices owned by a specific `emailaddress`, multiple queries must be performed	○	○
To return `deviceid`, `ownerid`, `timestamp`, and `value` for a specific `metricid`, a join must be performed	○	○
To return `deviceid`, `ownerid`, `emailaddress`, and `model`, a join must be performed	○	○

Answer:

Explanation:

Statements	Yes	No
To return for all devices owned by a specific `emailaddress`, multiple queries must be performed	○	○
To return `deviceid`, `ownerid`, `timestamp`, and `value` for a specific `metricid`, a join must be performed	○	○
To return `deviceid`, `ownerid`, `emailaddress`, and `model`, a join must be performed	○	○

Explanation:

Statements	Yes	No
To return for all devices owned by a specific `emailaddress`, multiple queries must be performed	○	○
To return `deviceid`, `ownerid`, `timestamp`, and `value` for a specific `metricid`, a join must be performed	○	○
To return `deviceid`, `ownerid`, `emailaddress`, and `model`, a join must be performed	○	○

Box 1: Yes
Need to join readings and devices.
Box 2: No
Only readings is required. All required fields are in readings.
Box 3: No
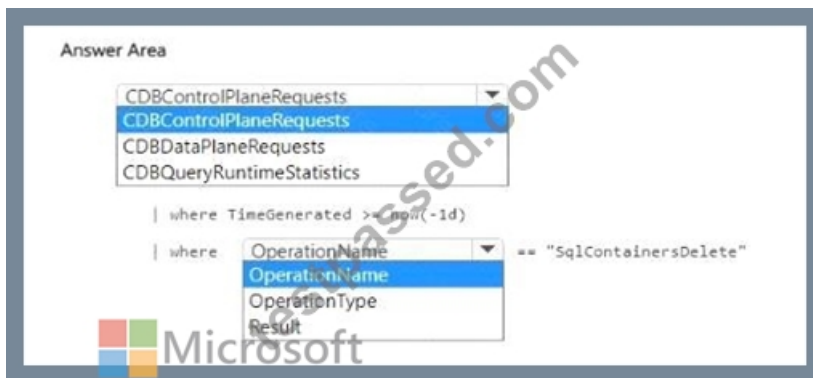Only devices is required. All required fields are in devices.

NEW QUESTION # 103
You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account named accounts You configure account!
to send resource logs to Log Analytics.
You need to identify any containers in account1 that were deleted during the past 24 hours.
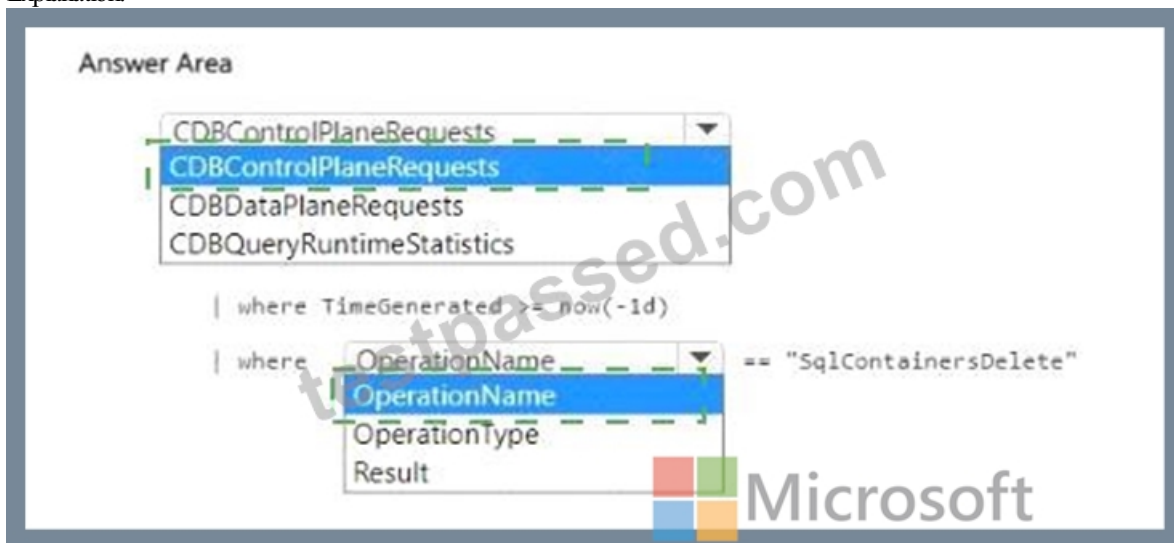How should you complete the query? To answer, select the appropriate options in the answer area.
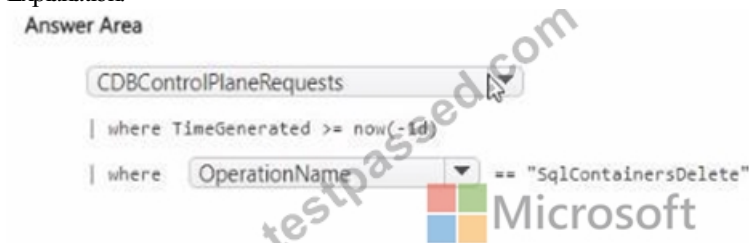NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 104

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.

```
{
    "id" : "9ccf1906-2a30-4dc0-9644-2185f5dcbbd7",
    "deviceId" : "bba6fe24-6d97-4935-8d58-36baa4b8a0e1",
    "telemetryId" : "9d7816e6-f401-42ba-ad05-0e03de35c0b8",
    "date" : "2019-05-03",
    "time" : "13:05",
    "temp" : "21"
}
```

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

Answer: A

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.

NEW QUESTION # 105
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 container named container1 in an Azure Cosmos DB Core (SQL) API account.
You need to make the contents of container1 available as reference data for an Azure Stream Analytics job.
Solution: You create an Azure function that uses Azure Cosmos DB Core (SQL) API change feed as a trigger and Azure event hub as the output.
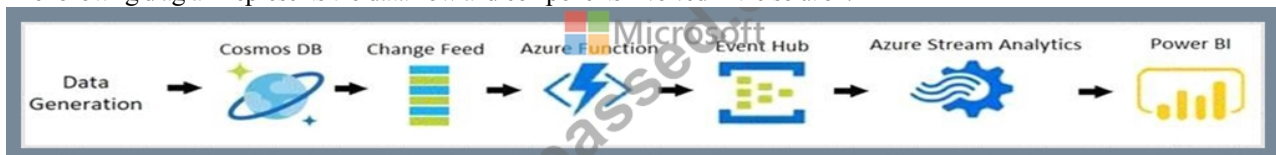Does this meet the goal?

- A. No
- B. Yes

Answer: B

Explanation:
Explanation
The Azure Cosmos DB change feed is a mechanism to get a continuous and incremental feed of records from an Azure Cosmos container as those records are being created or modified. Change feed support works by listening to container for any changes. It then outputs the sorted list of documents that were changed in the order in which they were modified.
The following diagram represents the data flow and components involved in the solution:

Reference: https://docs.microsoft.com/en-us/azure/cosmos-db/sql/changefeed-ecommerce-solution

NEW QUESTION # 106
You have an Azure Cosmos DB account named account1.
You have several apps that connect to account1 by using the account's secondary key.
You then configure the apps to authenticate by using service principals.
You need to ensure that account1 will only allow apps to connect by using an Azure AD identity.
Which account property should you modify?

- A. disableLocalAuth
- B. disableKeyBasedMetadataWriteAccess ,
- C. allowedOrxgins
- D. userAssignedldentatxe

Answer: A

Explanation:
Explanation

The disableLocalAuth property is a boolean flag that indicates whether local authentication methods such as primary/secondary keys are disabled for the Azure Cosmos DB account. Setting this property to true improves security by ensuring that Azure Cosmos DB accounts exclusively require Azure Active Directory identities for authentication1.

Topic 1, Litware, inc

Case Study

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Litware, Inc. is a United States-based grocery retailer. Litware has a main office and a primary datacenter in Seattle. The company has 50 retail stores across the United States and an emerging online presence. Each store connects directly to the internet.

Existing environment. Cloud and Data Service Environments.

Litware has an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
account1	Azure Cosmos DB Core (SQL) API account	The account has a single read-write region and contains a database named productdb. The productdb database contains two containers named con-product and con-productVendor. The account uses the session default consistency level.
iothub1	Azure IoT hub	The IoT hub collects per-second temperature and humidity telemetry from 5,000 IoT devices in the retail stores. A single telemetry reading generates 1 KB of data.
streamanalytics1	Azure Stream Analytics job	The job processes telemetry data collected from iothub1.

Each container in productdb is configured for manual throughput.

The con-product container stores the company's product catalog data. Each document in con-product includes a con-productvendor value. Most queries targeting the data in con-product are in the following format.

SELECT * FROM con-product p WHERE p.con-productVendor - 'name'

Most queries targeting the data in the con-productVendor container are in the following format SELECT * FROM con-productVendor pv ORDER BY pv.creditRating, pv.yearFounded Existing environment. Current Problems.

Litware identifies the following issues:

Updates to product categories in the con-productVendor container do not propagate automatically to documents in the con-product container.

Application updates in con-product frequently cause HTTP status code 429 "Too many requests". You discover that the 429 status code relates to excessive request unit (RU) consumption during the updates.

Requirements. Planned Changes

Litware plans to implement a new Azure Cosmos DB Core (SQL) API account named account2 that will contain a database named iotdb. The iotdb database will contain two containers named con-iot1 and con-iot2.

Litware plans to make the following changes:

Store the telemetry data in account2.

Configure account1 to support multiple read-write regions.

Implement referential integrity for the con-product container.

Use Azure Functions to send notifications about product updates to different recipients.

Develop an app named App1 that will run from all locations and query the data in account1.

Develop an app named App2 that will run from the retail stores and query the data in account2. App2 must be limited to a single

DNS endpoint when accessing account2.
Requirements. Business Requirements
Litware identifies the following business requirements:
Whenever there are multiple solutions for a requirement, select the solution that provides the best performance, as long as there are no additional costs associated.
Ensure that Azure Cosmos DB costs for IoT-related processing are predictable.
Minimize the number of firewall changes in the retail stores.
Requirements. Product Catalog Requirements
Litware identifies the following requirements for the product catalog:
Implement a custom conflict resolution policy for the product catalog data.
Minimize the frequency of errors during updates of the con-product container.
Once multi-region writes are configured, maximize the performance of App1 queries against the data in account1.
Trigger the execution of two Azure functions following every update to any document in the con-product container.

NEW QUESTION # 107

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