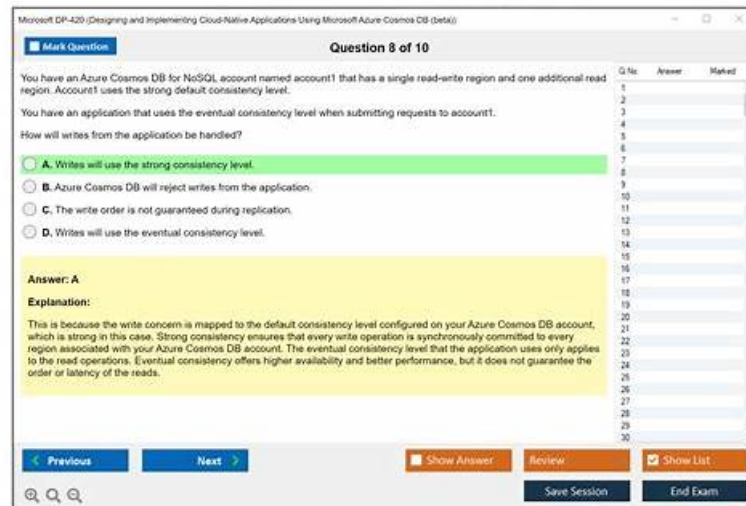


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Microsoft DP-420 Exam is a highly respected certification exam for professionals who want to validate their expertise in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. It is a challenging exam that requires a thorough understanding of the key concepts, features, and services of Azure Cosmos DB. Passing the exam demonstrates a candidate's ability to design and implement scalable, highly available, and globally distributed cloud-native applications on Azure Cosmos DB.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q82-Q87):

NEW QUESTION # 82

You plan to create an operational system that will store data in an Azure Cosmos DB or NoSQL account. You need to configure the account to meet the following requirements:

- * Support Spar* queries.
- * Support the analysis of data from the last six months.

* Only pay for analytical compute when running queries.

Which three actions should you perform? Each correct answer presents part of the solution. NOTE Each correct selection is worth one point.

- A. Create an Azure Synapse pipeline.
- **B. Enable Azure Synapse Link for the account**
- **C. Create a container and set the analytical property to six months.**
- **D. Create an Azure Databricks notebook.**
- E. Create an Azure Synapse linked service.
- F. Create a container and set the time to live to six months.

Answer: B,C,D

NEW QUESTION # 83

You plan to store order data in Azure Cosmos DB for NoSQL account. The data contains information about orders and their associated items.

You need to develop a model that supports order read operations. The solution must minimize the number of requests.

- A. Create a single database that contains one container. Store orders and order items in separate documents in the container.
- B. Create a database for orders and a database for order items.
- C. Create a single database that contains a container for order and a container for order items.
- **D. Create a single database that contains one container. Create a separate document for each order and embed the order items into the order documents.**

Answer: D

Explanation:

Azure Cosmos DB is a multi-model database that supports various data models, such as documents, key-value, graph, and column-family³. The core content-model of Cosmos DB's database engine is based on atom-record-sequence (ARS), which allows it to store and query different types of data in a flexible and efficient way³.

To develop a model that supports order read operations and minimizes the number of requests, you should consider the following factors:

The size and shape of your data

The frequency and complexity of your queries

The latency and throughput requirements of your application

The trade-offs between storage efficiency and query performance

Based on these factors, one possible model that you could implement is B. Create a single database that contains one container.

Create a separate document for each order and embed the order items into the order documents.

This model has the following advantages:

It stores orders and order items as self-contained documents that can be easily retrieved by order ID¹.

It avoids storing redundant data or creating additional containers for order items¹.

It allows you to view the order history of a customer with simple queries¹.

It leverages the benefits of embedding data, such as reducing the number of requests, improving query performance, and simplifying data consistency².

This model also has some limitations, such as:

It may not be suitable for some order items that have data that is greater than 2 KB, as it could exceed the maximum document size limit of 2 MB².

It may not be optimal for scenarios where order items need to be queried independently from orders or aggregated by other criteria².

It may not support transactions across multiple orders or customers, as transactions are scoped to a single logical partition².

Depending on your specific use case and requirements, you may need to adjust this model or choose a different one. For example, you could use a hybrid data model that combines embedding and referencing data², or you could use a graph data model that expresses entities and relationships as vertices and edges.

NEW QUESTION # 84

You plan to store order data in Azure Cosmos DB for NoSQL account. The data contains information about orders and their associated items.

You need to develop a model that supports order read operations. The solution must minimize the number of requests.

- A. Create a single database that contains one container. Store orders and order items in separate documents in the container.
- B. Create a database for orders and a database for order items.
- C. Create a single database that contains a container for order and a container for order items.
- **D. Create a single database that contains one container. Create a separate document for each order and embed the order items into the order documents.**

Answer: D

Explanation:

Explanation

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To develop a model that supports order read operations and minimizes the number of requests, you should consider the following factors:

- * The size and shape of your data
- * The frequency and complexity of your queries
- * The latency and throughput requirements of your application
- * The trade-offs between storage efficiency and query performance

Based on these factors, one possible model that you could implement is B. Create a single database that contains one container. Create a separate document for each order and embed the order items into the order documents.

This model has the following advantages:

- * It stores orders and order items as self-contained documents that can be easily retrieved by order ID¹.
- * It avoids storing redundant data or creating additional containers for order items¹.
- * It allows you to view the order history of a customer with simple queries¹.
- * It leverages the benefits of embedding data, such as reducing the number of requests, improving query performance, and simplifying data consistency².

This model also has some limitations, such as:

- * It may not be suitable for some order items that have data that is greater than 2 KB, as it could exceed the maximum document size limit of 2 MB².
- * It may not be optimal for scenarios where order items need to be queried independently from orders or aggregated by other criteria
- * It may not support transactions across multiple orders or customers, as transactions are scoped to a single logical partition².

Depending on your specific use case and requirements, you may need to adjust this model or choose a different one. For example, you could use a hybrid data model that combines embedding and referencing data²

, or you could use a graph data model that expresses entities and relationships as vertices and edges.

NEW QUESTION # 85

You have an Azure Cosmos DB container named container1 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%

Microsoft

Answer:

Explanation:

Answer Area

Normalized RU consumption:

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

Explanation:

Answer Area

Normalized RU consumption:

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

NEW QUESTION # 86

You have an Azure Cosmos DB for NoSQL account.

The change feed is enabled on a container named invoice.

You create an Azure function that has a trigger on the change feed.

What is received by the Azure function?

- A. all the properties of the updated items
- B. all the properties of the original items and the updated items
- **C. only the changed properties and the system-defined properties of the updated items**
- D. only the partition key and the changed properties of the updated items

Answer: C

Explanation:

According to the Azure Cosmos DB documentation^{1,2}, the change feed is a persistent record of changes to a container in the order they occur. The change feed outputs the sorted list of documents that were changed in the order in which they were modified.

The Azure function that has a trigger on the change feed receives all the properties of the updated items². The change feed does not include the original items or only the changed properties. The change feed also includes some system-defined properties such as `_ts` (the last modified timestamp) and `_lsn` (the logical sequence number)³.

Therefore, the correct answer is:

A: all the properties of the updated items

NEW QUESTION # 87

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