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DP-420

Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB

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Microsoft DP-420 exam is an industry-recognized certification designed for professionals who want to prove their expertise in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. This is an advanced-level exam that tests the candidate's knowledge and skills in cloud-native application development, Azure Cosmos DB, and other related technologies.

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.

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The DP-420 exam is an intermediate-level test and requires candidates to have a strong understanding of the Azure platform, including Azure Cosmos DB, and related cloud technologies. DP-420 exam assesses the candidate's ability to develop, design, and implement cloud-native applications that utilize Cosmos DB's features and functionality. DP-420 Exam also tests the candidate's knowledge of Cosmos DB's APIs, data modeling, partitioning, security, and performance tuning.

## Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q74-Q79):

### NEW QUESTION # 74

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account. The container1 container has 120 GB of data.

The following is a sample of a document in container1.

The orderId property is used as the partition key.

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:

Box 1: Yes

Records with different OrderIDs will match.

Box 2: Yes

Records with different OrderIDs will match.

Box 3: No

Only records with one specific OrderId will match

### NEW QUESTION # 75

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 database for orders and a database for order items.
- B. Create a single database that contains a container for order and a container for order items.
- C. Create a single database that contains one container. Store orders and order items in separate documents in the container.
- **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

Azure Cosmos DB is a multi-model database that supports various data models, such as documents, key-value, graph, and column-family<sup>3</sup>. 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 way<sup>3</sup>.

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 # 76

You have an Azure subscription.

You need to deploy the following resources to an Azure Cosmos DB for NoSQL account:

\* A container

\* A user-defined function (UDF)

The solution must minimize the possibility of the deployment failing.

How should you complete the template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

☐

**Answer:**

Explanation:

☐

### NEW QUESTION # 77

You have an Azure Cosmos DB for NoSQL account named account1.

You plan to implement the integrated cache for account1.

You need to configure the connectivity mode and the consistency level for requests that target account1. The solution must maximize consistency while using the integrated cache.

What should you configure? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

☐

**Answer:**

Explanation:

☐

Explanation:

☐

### NEW QUESTION # 78

You have an Azure Cosmos DB for NoSQL account named account1 that supports an application named App1. App1 uses the consistent prefix consistency level.

You configure account1 to use a dedicated gateway and integrated cache.

You need to ensure that App1 can use the integrated cache.

Which two actions should you perform for App1? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Change the account endpoint to <https://account1.documents.azure.com>
- B. Change the consistency level of requests to session.
- C. Change the account endpoint to <https://account1.sqlx.cosmos.azure.com>
- D. Change the connection mode to direct
- E. Change the consistency level of requests to strong.

**Answer: B,C**

Explanation:

the Azure Cosmos DB integrated cache is an in-memory cache that is built-in to the Azure Cosmos DB dedicated gateway. The dedicated gateway is a front-end compute that stores cached data and routes requests to the backend database. You can choose from a variety of dedicated gateway sizes based on the number of cores and memory needed for your workload<sup>1</sup>. The integrated cache can reduce the RU consumption and latency of read operations by serving them from the cache instead of the backend containers<sup>2</sup>.

For your scenario, to ensure that App1 can use the integrated cache, you should perform these two actions:

Change the account endpoint to `https://account1.sqlx.cosmos.azure.com`. This is the dedicated gateway endpoint that you need to use to connect to your Azure Cosmos DB account and leverage the integrated cache. The standard gateway endpoint (`https://account1.documents.azure.com`) will not use the integrated cache<sup>2</sup>.

Change the consistency level of requests to session. This is the highest consistency level that is supported by the integrated cache. If you use a higher consistency level (such as strong or bounded staleness), your requests will bypass the integrated cache and go directly to the backend containers

### NEW QUESTION # 79

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