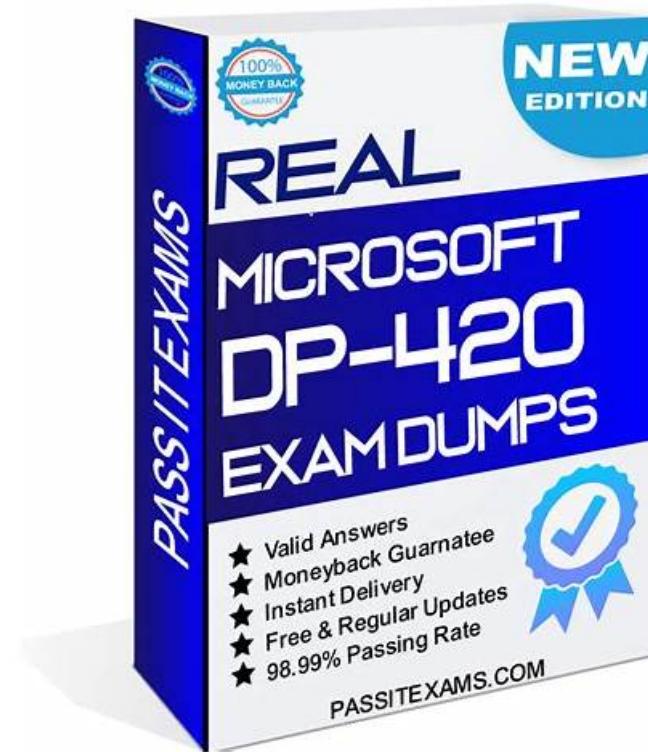


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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q75-Q80):

NEW QUESTION # 75

You need to recommend indexes for con-product and con-productVendor. The solution must meet the product catalog requirements and the business requirements.

Which type of index should you recommend for each container? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation:

NEW QUESTION # 76

You have an Azure Cosmos DB Core (SQL) API account named account1.

You have the Azure virtual networks and subnets shown in the following table.

The vnet1 and vnet2 networks are connected by using a virtual network peer.

The Firewall and virtual network settings for account1 are configured as shown in the exhibit.

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 # 77

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

You are designing an application that will use db1.

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.

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

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, such as 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 # 78

You have an Azure Cosmos DB for NoSQL account named accounts1.

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:

NEW QUESTION # 79

You are troubleshooting the current issues caused by the application updates.

Which action can address the application updates issue without affecting the functionality of the application?

- A. Enable time to live for the con-product container.
- B. Add a custom indexing policy to the con-product container.
- **C. Set the default consistency level of account1 to bounded staleness.**
- D. Set the default consistency level of account1 to strong.

Answer: C

Explanation:

Bounded staleness is frequently chosen by globally distributed applications that expect low write latencies but require total global order guarantee. Bounded staleness is great for applications featuring group collaboration and sharing, stock ticker, publish-subscribe/queueing etc.

Scenario: 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.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

NEW QUESTION # 80

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