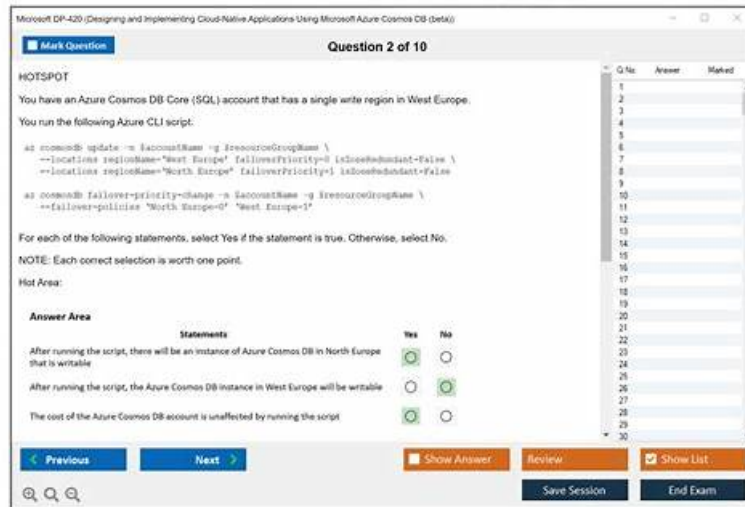# Avail Updated and Latest DP-420 Pdf Pass Leader to Pass DP-420 on the First Attempt

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Microsoft DP-420 Certification Exam is designed for professionals who want to demonstrate their skills in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. DP-420 exam is intended for individuals who have a strong understanding of Azure Cosmos DB and its core features, as well as experience with designing and implementing cloud-native applications.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q111-Q116):

NEW QUESTION # 111
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. orderDate
- B. orderId
- C. customerId
- D. id

Answer: A

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 # 112
You have an Azure Cosmos DB for NoSQL account.
You plan 10 create a container named container1. The container1 container will store items that include two properties named nm and age The most commonly executed queries will query container1 for a specific name. The following is a sample of the query.
You need to define an opt-in Indexing policy for container1. The solution must meet the following requirements:
* Minimize the number of request units consumed by the queries.
* Ensure that the _etag property is excluded from indexing.
How should you define the indexing poky? To answer, select the appropriate options in the answer are a. NOTE: Each correct selection Is worth one point.

Answer:

Explanation:

NEW QUESTION # 113
You maintain a relational database for a book publisher. The database contains the following tables.
The most common query lists the books for a given authorId.
You need to develop a non-relational data model for Azure Cosmos DB Core (SQL) API that will replace the relational database.
The solution must minimize latency and read operation costs.

What should you include in the solution?

- A. Create a container that contains a document for each Author and a document for each Book. In each Book document, embed authorId.
- B. Create a container for Author and a container for Book. In each Author document, embed booked for each book by the author. In each Book document embed author of each author.
- C. Create a container for Author and a container for Book. In each Author document and Book document embed the data from BookauthorInk.
- D. Create Author, Book, and BookauthorInk documents in the same container.

Answer: B

Explanation:
Store multiple entity types in the same container.

NEW QUESTION # 114
You have an Azure Cosmos DB for NoSQL account that frequently receives the same three queries.
You need to configure indexing to minimize RUs consumed by the queries.
Which type of index should you use for each query? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

□

Answer:

Explanation:

□

NEW QUESTION # 115
You have an Azure Cosmos DB for NoSQL account.
You need to implement Always Encrypted for all the data stored in the account. The solution must minimize administrative effort.
At which level should you define the encryption policy and set the data encryption key? To answer, drag the appropriate levels to the correct requirements. Each level may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.

□

Answer:

Explanation:

□
Explanation:

□
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 thesubsequent 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.

□

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 # 116

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