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DP 420 Cosmos DB Specialty Study Guide



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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q13-Q18):

NEW QUESTION # 13

You plan to create an Azure Cosmos DB database named db1 that will contain two containers. One of the containers will contain blog posts, and the other will contain users. Each item in the blog post container will include:

- * A single blog post
- * All the comments associated to the blog post
- * The names of the users who created the blog post and added the comments.

You need to design a solution to update usernames in the user container without causing data integrity issues. The solution must minimize administrative and development effort. What should you include in the solution? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

In the user container, implement: A stored procedure

The change feed processor

A post-trigger

A stored procedure

A user-defined function

In the blog post container, implement: The change feed processor

The change feed processor

A post-trigger

A stored procedure

A user-defined function

Answer:

Explanation:

Answer Area

In the user container, implement: A stored procedure

The change feed processor

A post-trigger

A stored procedure

A user-defined function

In the blog post container, implement: The change feed processor

The change feed processor

A post-trigger

A stored procedure

A user-defined function

Explanation

Answer Area

In the user container, implement: A stored procedure

In the blog post container, implement: The change feed processor



NEW QUESTION # 14

You have a container in an Azure Cosmos DB for NoSQL account. The database that has a manual throughput of 30,000 request units per second (RU/s). The current consumption details are shewn in the following chart.

Normalized RU Consumption (%) By PartitionKeyRangeID



Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.
NOTE: Each correct selection is worth one point.

Answer Area

Each partition supports throughput of up to [answer choice] RU/s.

5,000

5,000

10,000

20,000

30,000

The container can scale to [answer choice] RU/s without a partition split.

60,000

10,000

20,000

30,000

60,000



Answer:

Explanation:

Answer Area

Each partition supports throughput of up to [answer choice] RU/s.

5,000

5,000

10,000

20,000

30,000

The container can scale to [answer choice] RU/s without a partition split.

60,000

10,000

20,000

30,000

60,000

Explanation:

Answer Area

Each partition supports throughput of up to [answer choice] RU/s. 5,000

The container can scale to [answer choice] RU/s without a partition split. 60,000



NEW QUESTION # 15

You have an Azure Cosmos DB for NoSQL container. The container contains items that have the following properties.

Property	Date type	Filtered in queries
dateOfBirth	Date	Yes
hasProvidedTaxNumber	Boolean	Yes
healthStatus	String	No

You need to protect the data stored in the container by using Always Encrypted. For each property, you must use the strongest type of encryption and ensure that queries execute properly.

What is the strongest type of encryption that you can apply to each property? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area



dateOfBirth:

Deterministic

Randomized

No encryption

healthStatus:

Deterministic

Randomized

No encryption

Answer:

Explanation:

Answer Area

dateOfBirth:	Deterministic Randomized No encryption
healthStatus:	Deterministic Randomized No encryption

Explanation

Box 1 = Randomized

Box 2 = Deterministic

Always Encrypted for Azure Cosmos DB supports two types of encryption: deterministic and randomized1.

Deterministic encryption always produces the same encrypted value for any given plain text value.

Randomized encryption produces a different encrypted value for the same plain text value.

For dateOfBirth, randomized encryption is the strongest type of encryption because it provides better protection against statistical analysis and brute-force attacks. Deterministic encryption would not be suitable for dateOfBirth because it could reveal patterns or allow equality comparisons. For healthStatus, deterministic encryption is the strongest type of encryption because it allows queries to perform equality comparisons and filters on the encrypted property. Randomized encryption would not be suitable for healthStatus because it would prevent any queries on the encrypted property1.

NEW QUESTION # 16

You have a database in an Azure Cosmos DB SQL API Core (SQL) account that is used for development.

The database is modified once per day in a batch process.

You need to ensure that you can restore the database if the last batch process fails. The solution must minimize costs.

How should you configure the backup settings? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Backup interval

 Microsoft

▼
1 hour
24 hours
1 weeks

Backup retention

▼
2 days
1 week
30 days

Answer:

Explanation:

Backup interval

1 hour	▼
24 hours	▼
1 weeks	▼

Backup retention

2 days	▼
1 week	▼
30 days	▼

NEW QUESTION # 17

The settings for a container in an Azure Cosmos DB Core (SQL) API account are configured as shown in the following exhibit.

Settings

Indexing Policy

Time to Live

- Off
- On (no default)
- On

Geospatial Configuration



Microsoft

- Geography
- Geometry

Partition key

/productName

Which statement describes the configuration of the container?

- A. All items will be deleted after one hour.
- B. Items stored in the collection will expire only if the item has a time to live value.
- C. All items will be deleted after one year.
- D. Items stored in the collection will be retained always, regardless of the items time to live value.

Answer: B

Explanation:

When DefaultTimeToLive is -1 then your Time to Live setting is On (No default) Time to Live on a container, if present and the value is set to "-1", it is equal to infinity, and items don't expire by default.

Time to Live on an item:

This Property is applicable only if DefaultTimeToLive is present and it is not set to null for the parent container.

If present, it overrides the DefaultTimeToLive value of the parent container.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/time-to-live>

NEW QUESTION # 18

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