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This feature provides students with real-time examination scenarios to feel some pressure and solve the DP-420 practice exam as a real threat. These Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB (DP-420) practice tests are important for students so they can learn to solve real Microsoft DP-420 Exam Questions and pass Microsoft DP-420 certification test in a single try. The desktop-based Microsoft DP-420 practice test software works on Windows and the web-based Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB practice exam is compatible with all operating systems.

To prepare for the DP-420 certification exam, candidates should have a solid understanding of Azure Cosmos DB fundamentals, including its architecture, data model, and various APIs. They should also have experience in designing and implementing cloud-native solutions using Azure services, such as Azure Functions, Azure App Service, and Azure Event Grid. In addition, candidates should be familiar with programming languages such as C#, Java, Python, and JavaScript, as well as web development frameworks such as ASP.NET and Node.js. By passing the DP-420 Exam, professionals can demonstrate their expertise in using Azure Cosmos DB to design and build cloud-native applications that are scalable, performant, and highly available.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q143-Q148):

NEW QUESTION # 143

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

	▼
1 hour	
24 hours	
1 weeks	

Backup retention

	Microsoft	▼
2 days		
1 week		
30 days		

Answer:

Explanation:

Backup interval	<table border="1"><tr><td></td><td>▼</td></tr><tr><td colspan="2">1 hour</td></tr><tr><td colspan="2">24 hours</td></tr><tr><td colspan="2">1 weeks</td></tr></table>		▼	1 hour		24 hours		1 weeks					
	▼												
1 hour													
24 hours													
1 weeks													
Backup retention	<table border="1"><tr><td></td><td>Microsoft</td><td>▼</td></tr><tr><td colspan="3">2 days</td></tr><tr><td colspan="3">1 week</td></tr><tr><td colspan="3">30 days</td></tr></table>		Microsoft	▼	2 days			1 week			30 days		
	Microsoft	▼											
2 days													
1 week													
30 days													

Explanation:

Backup interval

▼

1 hour

24 hours

1 weeks

Backup retention

▼

2 days

1 week

30 days

NEW QUESTION # 144

You have three containers in an Azure Cosmos DB Core (SQL) API account as shown in the following table.

Name	Database	Time to Live
cn1	db1	On (no default)
cn2	db1	Off
cn3	db1	On (no default)

You have the following Azure functions:

A function named Fn1 that reads the change feed of cn1

A function named Fn2 that reads the change feed of cn2

A function named Fn3 that reads the change feed of cn3

You perform the following actions:

Delete an item named item1 from cn1.

Update an item named item2 in cn2.

For an item named item3 in cn3, update the item time to live to 3,600 seconds.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Statements	Yes	No
Fn1 will receive item1 from the change feed	☐	☐
Fn2 can check the <code>_etag</code> of item2 to see whether the item is an update or an insert	☐	☐
Fn3 will receive item3 from the change feed	☐	☐

Answer:

Explanation:

Statements	Yes	No
Fn1 will receive item1 from the change feed	☐	☒
Fn2 can check the <code>_etag</code> of item2 to see whether the item is an update or an insert	☐	☒
Fn3 will receive item3 from the change feed	☒	☐

Explanation

Statements	Yes	No
Fn1 will receive item1 from the change feed	☐	☒
Fn2 can check the <code>_etag</code> of item2 to see whether the item is an update or an insert	☐	☒
Fn3 will receive item3 from the change feed	☒	☐

Box 1: No

Azure Cosmos DB's change feed is a great choice as a central data store in event sourcing architectures where all data ingestion is modeled as writes (no updates or deletes).

Note: The change feed does not capture deletes. If you delete an item from your container, it is also removed from the change feed. The most common method of handling this is adding a soft marker on the items that are being deleted. You can add a property called "deleted" and set it to "true" at the time of deletion. This document update will show up in the change feed. You can set a TTL on this item so that it can be automatically deleted later.

Box 2: No

The `_etag` format is internal and you should not take dependency on it, because it can change anytime.

Box 3: Yes

Change feed support in Azure Cosmos DB works by listening to an Azure Cosmos container for any changes.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/change-feed-design-patterns>

<https://docs.microsoft.com/en-us/azure/cosmos-db/change-feed>

NEW QUESTION # 145

You have a container in an Azure Cosmos DB Core (SQL) API account.

You need to use the Azure Cosmos DB SDK to replace a document by using optimistic concurrency.

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

NOTE: Each correct selection is worth one point.

RequestOptions property to set:

AccessCondition	☒
ConsistencyLevel	☒
SessionToken	☒

Document property that will be compared:

<code>_etag</code>	☒
<code>_id</code>	☒
<code>_rid</code>	☒

Answer:

Explanation:

RequestOptions property to set:

- AccessCondition
- ConsistencyLevel**
- SessionToken

Document property that will be compared:

- _etag**
- _id
- _rid

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.cosmos.itemrequestoptions>

<https://cosmosdb.github.io/labs/dotnet/labs/10-concurrency-control.html>

NEW QUESTION # 146

You have the indexing policy shown in the following exhibit.

SQL API

Test

Scale

families

Items

Settings

Stored Procedures

User Defined Functions

Triggers

Settings

Indexing Policy

```
1 {
2   "indexingMode": "consistent",
3   "automatic": true,
4   "includedPaths": [
5     {
6       "path": "/surname/?"
7     }
8   ],
9   "excludedPaths": [
10    {
11      "path": "/*"
12    }
13  ],
14  "compositeIndexes": [
15    [
16      {
17        "path": "/name"
18      },
19      {
20        "path": "/age"
21      }
22    ]
23  ]
24 }
```

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.

When creating a query, which ORDER BY statement will execute successfully?

Microsoft	▼
ORDER BY c.age ASC, c.name ASC	
ORDER BY c.age DESC, c.name DESC	
ORDER BY c.name ASC, c.age DESC	
ORDER BY c.name DESC, c.age ASC	
ORDER BY c.name DESC, c.age DESC	

During the creation of an item, when will the index update?

▼
Never
At a scheduled interval
At the same time as the item creation
After the item appears in the change feed

Answer:

Explanation:

When creating a query, which ORDER BY statement will execute successfully?

Microsoft	▼
ORDER BY c.age ASC, c.name ASC	
ORDER BY c.age DESC, c.name DESC	
ORDER BY c.name ASC, c.age DESC	
ORDER BY c.name DESC, c.age ASC	
ORDER BY c.name DESC, c.age DESC	

During the creation of an item, when will the index update?

▼
Never
At a scheduled interval
At the same time as the item creation
After the item appears in the change feed

Explanation

When creating a query, which ORDER BY statement will execute successfully?

Microsoft	▼
ORDER BY c.age ASC, c.name ASC	
ORDER BY c.age DESC, c.name DESC	
ORDER BY c.name ASC, c.age DESC	
ORDER BY c.name DESC, c.age ASC	
ORDER BY c.name DESC, c.age DESC	

During the creation of an item, when will the index update?

▼
Never
At a scheduled interval
At the same time as the item creation
After the item appears in the change feed

Box 1: ORDER BY c.name DESC, c.age DESC

Queries that have an ORDER BY clause with two or more properties require a composite index.

The following considerations are used when using composite indexes for queries with an ORDER BY clause with two or more properties:

If the composite index paths do not match the sequence of the properties in the ORDER BY clause, then the composite index can't support the query.

The order of composite index paths (ascending or descending) should also match the order in the ORDER BY clause.

The composite index also supports an ORDER BY clause with the opposite order on all paths.

Box 2: At the same time as the item creation

Azure Cosmos DB supports two indexing modes:

Consistent: The index is updated synchronously as you create, update or delete items. This means that the consistency of your read

queries will be the consistency configured for the account.
None: Indexing is disabled on the container.
Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/index-policy>

NEW QUESTION # 147

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account.
You need to provide a user named User1 with the ability to insert items into container1 by using role-based access control (RBAC).
The solution must use the principle of least privilege.
Which roles should you assign to User1?

- **A. CosmosDB Operator only**
- B. DocumentDB Account Contributor only
- C. Cosmos DB Built-in Data Contributor only
- D. DocumentDB Account Contributor and Cosmos DB Built-in Data Contributor

Answer: A

Explanation:

Cosmos DB Operator: Can provision Azure Cosmos accounts, databases, and containers. Cannot access any data or use Data Explorer.

Incorrect Answers:

B: DocumentDB Account Contributor can manage Azure Cosmos DB accounts. Azure Cosmos DB is formerly known as DocumentDB.

C: DocumentDB Account Contributor: Can manage Azure Cosmos DB accounts.

NEW QUESTION # 148

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