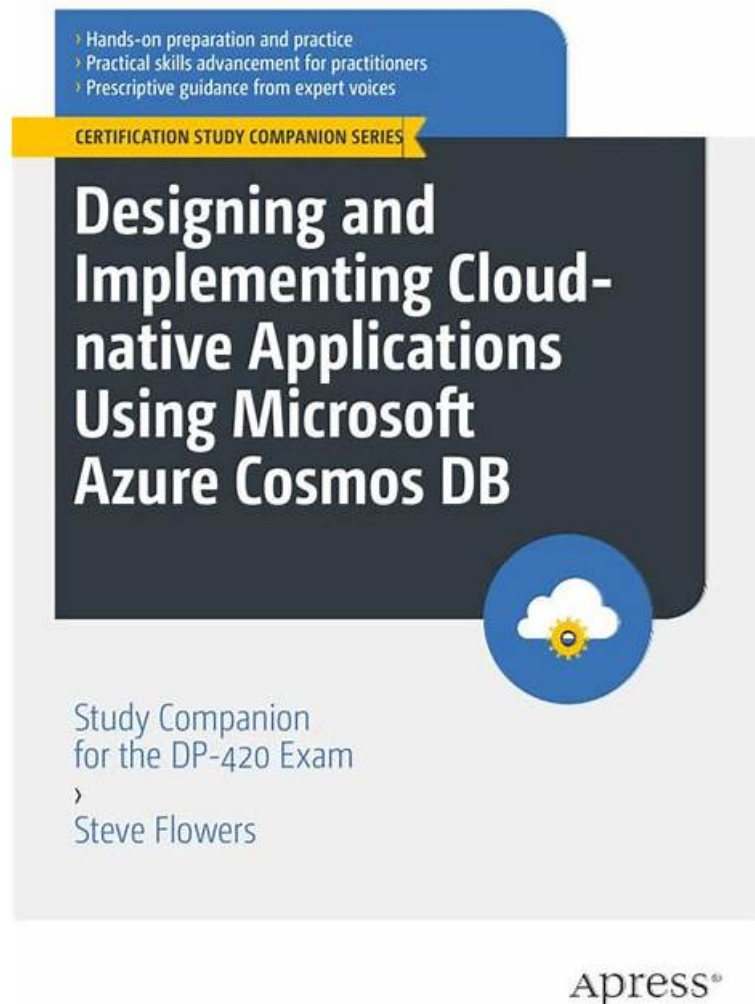


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Achieving the Microsoft DP-420 certification demonstrates to employers and colleagues that a candidate has the skills and knowledge to design and implement cloud-native applications using Azure Cosmos DB. Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB certification is a valuable credential for professionals who want to advance their careers in cloud computing and data management.

Earning the Microsoft DP-420 Certification can help developers demonstrate their expertise in designing and implementing cloud-native applications using Azure Cosmos DB. It can also help them stand out in the job market and advance their careers.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q136-Q141):

NEW QUESTION # 136

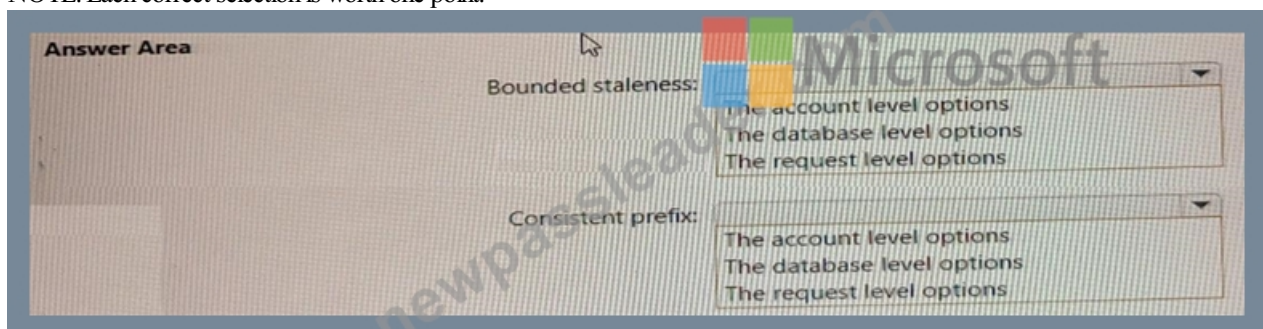
You have an Azure Cosmos DB account named `account1` that has a default consistency level of session.

You have an app named `App1`.

You need to ensure that the read operations of `App1` can request either bounded staleness or consistent prefix consistency.

What should you modify for each consistency level? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:

Answer Area

Bounded staleness:

Consistent prefix:

NEW QUESTION # 137

You have an Azure Cosmos DB database named `dataset` contains a container named `container1`. The `container1` container store product data and has the following indexing policy.

```
{
  "indexingMode": "consistent",
  "includedPaths": [
    {
      "path": "/product/category/?"
    },
    {
      "path": "/product/brand/?"
    }
  ],
  "excludedPaths": [
    {
      "path": "/*"
    },
    {
      "path": "/product/brand"
    }
  ]
}
```

Which path will be indexed?

- A. `/product/brand/tailspin`
- B. `/product/[]/category`
- C. `/product/brand`
- D. `/product/category`

Answer: C

Explanation:

The indexing policy has an `includedPaths` array that contains only one path: `/product/brand/?`. This means that only the properties under `/product/brand` will be indexed. The `?` symbol indicates that only scalar values will be indexed, not arrays or objects. The `excludedPaths` array contains a single path: `/*`. This means that all other properties will be excluded from indexing. The `*` symbol indicates a wildcard that matches any property name. Therefore, the paths `/product/category`, `/product/[]/category`, and `/product/brand/tailspin` will not be indexed.

NEW QUESTION # 138

You have the indexing policy shown in the following exhibit.

SQL API

Items

Settings

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?

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?

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?

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 # 139

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

You plan to create a container that will store employee data for 5,000 small businesses. Each business will have up to 25 employees. Each employee item will have an emailAddress value.

You need to ensure that the emailAddress value for each employee within the same company is unique.

To what should you set the partition key and the unique key? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Partition key

	▼
companyId	
companyId+emailAddress	
emailAddress	
employeeId	

Unique key

	▼
companyId	
emailAddress	
employeeId	

Answer:

Explanation:

Partition key

	▼
companyId	
companyId+emailAddress	
emailAddress	
employeeId	

Unique key

	▼
companyId	
emailAddress	
employeeId	

Explanation

Partition key

	▼
companyId	
companyId+emailAddress	
emailAddress	
employeeId	

Unique key

	▼
companyId	
emailAddress	
employeeId	

Box 1: CompanyID

After you create a container with a unique key policy, the creation of a new or an update of an existing item resulting in a duplicate within a logical partition is prevented, as specified by the unique key constraint. The partition key combined with the unique key guarantees the uniqueness of an item within the scope of the container.

For example, consider an Azure Cosmos container with Email address as the unique key constraint and CompanyID as the partition key. When you configure the user's email address with a unique key, each item has a unique email address within a given CompanyID. Two items can't be created with duplicate email addresses and with the same partition key value.

Box 2: emailAddress

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/unique-keys>

NEW QUESTION # 140

You plan to use a multi-region Azure Cosmos DB for NoSQL account to store data for a new application suite. The suite contains the applications shown in the following table.

Name	Requirement
Reporting	Must be able to track the total order counts within five minutes of orders being placed.
Purchasing	Must guarantee that the latest committed stock quantities are used always.
Fulfillment	Must ensure that orders are read in the order in which they are placed.

Each application should use the weakest consistency level possible.

Which consistency level should you configure for each application? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

Reporting: Eventual
Bounded staleness
Consistent prefix
Eventual
Session
Strong

Purchasing: Bounded staleness
Bounded staleness
Consistent prefix
Eventual
Session
Strong

Fulfillment: Strong
Bounded staleness
Consistent prefix
Eventual
Session
Strong

Answer:

Explanation:

Reporting: Eventual
Bounded staleness
Consistent prefix
Eventual
Session
Strong

Purchasing: Bounded staleness
Bounded staleness
Consistent prefix
Eventual
Session
Strong

Fulfillment: Strong
Bounded staleness
Consistent prefix
Eventual
Session
Strong

NEW QUESTION # 141

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