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Microsoft DP-420 exam, also known as "Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB," is a certification exam that focuses on designing and implementing cloud-native applications using Azure Cosmos DB. Azure Cosmos DB is Microsoft's globally distributed, multi-model database service designed for building highly scalable and available applications. The DP-420 Exam is intended for candidates who are familiar with Azure and have experience developing, debugging, and maintaining cloud-native applications.

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Microsoft DP-420 exam questions preparation material has everything to achieve success in the Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB exam on the first attempt. The unique features of PremiumVCEDump DP-420 Preparation products have been noted. The DP-420 pdf exam questions by PremiumVCEDump have the most realistic Microsoft DP-420 exam questions. This DP-420 pdf covers all the DP-420 Exam Questions from the previous exam as well as the upcoming Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB exam. You don't need to consult different books for the Microsoft certification exam with the PremiumVCEDump.

Microsoft DP-420 exam focuses on designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. DP-420 exam is intended for developers who have experience working with Azure Cosmos DB, and who want to demonstrate their ability to design and implement cloud-native applications that are scalable, highly available, and secure.

What are the prerequisites to take the Microsoft DP-420 Certification Exam?

There are no prerequisites for the Microsoft DP-420 Certification Exam.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q140-Q145):

NEW QUESTION # 140

You have a container in an Azure Cosmos DB Core (SQL) API account. The container stores telemetry data from IoT devices. The container uses telemetryId as the partition key and has a throughput of 1,000 request units per second (RU/s). Approximately 5,000 IoT devices submit data every five minutes by using the same telemetryId value.

You have an application that performs analytics on the data and frequently reads telemetry data for a single IoT device to perform trend analysis.

The following is a sample of a document in the container.

```
{
  "id" : "9ccf1906-2a30-4dc0-9644-2185f5dcbbd7",
  "deviceId" : "bba6fe24-6d97-4935-8d58-36baa4b8a0e1",
  "telemetryId" : "9d7816e6-f401-42ba-ad05-0e03de35c0b8",
  "date" : "2019-05-03",
  "time" : "13:05",
  "temp" : "21"
}
```

You need to reduce the amount of request units (RUs) consumed by the analytics application. What should you do?

- A. Decrease the offerThroughput value for the container.
- B. Increase the offerThroughput value for the container.
- C. Move the data to a new container that has a partition key of deviceId.
- D. Move the data to a new container that uses a partition key of date.

Answer: C

Explanation:

The partition key is what will determine how data is routed in the various partitions by Cosmos DB and needs to make sense in the context of your specific scenario. The IoT Device ID is generally the "natural" partition key for IoT applications.

Reference: <https://docs.microsoft.com/en-us/azure/architecture/solution-ideas/articles/iot-using-cosmos-db>

NEW QUESTION # 141

You have an Azure Cosmos DB for NoSQL account.

The change feed is enabled on a container named invoice.

You create an Azure function that has a trigger on the change feed.

What is received by the Azure function?

- A. all the properties of the original items and the updated items
- B. only the changed properties and the system-defined properties of the updated items

- C. only the partition key and the changed properties of the updated items
- D. all the properties of the updated items

Answer: D

Explanation:

Explanation

According to the Azure Cosmos DB documentation^{1,2}, the change feed is a persistent record of changes to a container in the order they occur. The change feed outputs the sorted list of documents that were changed in the order in which they were modified.

The Azure function that has a trigger on the change feed receives all the properties of the updated items². The change feed does not include the original items or only the changed properties. The change feed also includes some system-defined properties such as `_ts` (the last modified timestamp) and `_lsn` (the logical sequence number)³.

Therefore, the correct answer is: A. all the properties of the updated items

NEW QUESTION # 142

You have an Azure Cosmos DB for NoSQL account1 that is configured for automatic failover. The account1 account has a single read-write region in West US and a and a read region in East US.

You run the following PowerShell command.

```
Update-AzCosmosDBAccountFailoverPriority -ResourceGroupName "rg1" -Name "account1" -FailoverPolicy @("East US", "West US")
```

What is the effect of running the command?

- A. A manual failover will occur.
- B. The account will be configured for multi-region writes.
- C. The account will be unavailable to writes during the change.
- D. The provisioned throughput for account1 will increase.

Answer: C

Explanation:

You can use the `Set-AzCosmosDBAccountRegion` cmdlet to update the regions that an Azure Cosmos DB account uses. You can use this cmdlet to add a region or change the region failover order. The cmdlet requires a resource group name, an Azure Cosmos DB account name, and a list of regions in desired failover order¹.

For your scenario, based on the PowerShell command, you are using the `Set-AzCosmosDBAccountRegion` cmdlet to update the regions for an Azure Cosmos DB account named account1 that is configured for automatic failover. The command specifies two regions: West US and East US. The effect of running the command is that the account will be configured for multi-region writes. Multi-region writes is a feature of Azure Cosmos DB that allows you to write data to any region in your account and have it automatically replicated to all other regions. This feature provides high availability and low latency for write operations across multiple regions. To enable multi-region writes, you need to specify at least two regions in your account and set them as write regions². In your command, you are setting both West US and East US as write regions by using the `-IsZoneRedundant` parameter with a value of `$true` for both regions.

NEW QUESTION # 143

You have an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
account1	Azure Cosmos DB for NoSQL	Account that includes a database named db1, which hosts a container named Container1
workspace1	Azure Synapse Analytics	Workspace that is connected to db1 by using Azure Synapse Link for Azure Cosmos DB

You need to query Container1 from the serverless SQL pool of workspace1.

How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```

SELECT TOP 10 *
FROM OPENROWSET(
PROVIDER = 'Microsoft Azure SQL Database',
CONNECT_STRING = 'Server=tcp:myserver.database.windows.net;Database=db1',
OBJECT = 'Container1',
SERVER_CREDENTIAL = 'Credential1'
) WITH (id VARCHAR(50), customer_name VARCHAR(100),
) DATA_SOURCE , location_id VARCHAR(10),
) FORMAT ,
) WITH (TIME) as rows

```

Answer:

Explanation:

Answer Area

```

SELECT TOP 10 *
FROM OPENROWSET(
PROVIDER = 'Microsoft Azure SQL Database',
CONNECT_STRING = 'Server=tcp:myserver.database.windows.net;Database=db1',
OBJECT = 'Container1',
SERVER_CREDENTIAL = 'Credential1'
) WITH (id VARCHAR(50), customer_name VARCHAR(100),
) DATA_SOURCE , location_id VARCHAR(10),
) FORMAT ,
) WITH (TIME) as rows

```

Explanation:

Answer Area

```

SELECT TOP 10 *
FROM OPENROWSET(
PROVIDER = 'CosmosDB',
CONNECTION = 'Account=account1;Database=db1',
OBJECT = 'Container1',
SERVER_CREDENTIAL = 'Credential1'
) WITH (id VARCHAR(50), customer_name VARCHAR(100),
purchase_count BIGINT, location_id VARCHAR(10),
last_purchase_date DATETIME) as rows

```

NEW QUESTION # 144

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?



Microsoft

	▼
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 # 145

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