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Microsoft DP-420 exam is designed for professionals who want to enhance their skills in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB certification is ideal for individuals who want to pursue a career in cloud computing and database management. DP-420 exam is intended to test the candidates' knowledge and understanding of the different concepts, tools, and technologies that are associated with cloud-native application development.

To prepare for the DP-420 Exam, candidates should have experience working with Azure Cosmos DB, as well as a solid understanding of cloud-native application design principles, distributed systems, and database design concepts. Microsoft offers a range of online courses and resources to help candidates prepare for the exam, as well as practice exams and study guides.

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Microsoft Designing and Implementing Cloud-Native Applications Using

Microsoft Azure Cosmos DB Sample Questions (Q118-Q123):

NEW QUESTION # 118

You have the following Azure Resource Manager (ARM) template.

```
{
  "type": "Microsoft.DocumentDB/databaseAccount",
  "apiVersion": "2022-08-15",
  "name": "acct01/mydb/mycontainer",
  "properties": {
    "resource": {
      "id": "mycontainer",
      "partitionKey": {
        "paths": [
          "/companyid"
        ],
        "kind": "Hash"
      },
      "indexingPolicy": {
        "indexingMode": "consistent",
        "includedPaths": [
          {
            "path": "/"
          },
          {
            "path": "/headquarters/country/?"
          }
        ],
        "excludedPaths": [
          {
            "path": "/headquarters/"
          }
        ],
        "compositeIndexes": [
```

```
    [
      {
        "path": "/name",
        "order": "ascending"
      },
      {
        "path": "/startDate",
        "order": "descending"
      }
    ]
  ]
}
}
```

You plan to deploy the template in incremental mode.

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

Answer Area				
		Statements	Yes	No
		When the template is deployed, an Azure Cosmos DB account named <code>acct01</code> will be created if the account does NOT exist.	<input type="radio"/>	<input type="radio"/>
		When the template is deployed, a container named <code>mycontainer</code> in <code>mydb</code> will be created if the container does NOT exist.	<input type="radio"/>	<input type="radio"/>
		When the template is deployed, if <code>mycontainer</code> exists and has a partition key on <code>name</code> , the partition key will change to <code>companyid</code> .	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Answer Area				
		Statements	Yes	No
		When the template is deployed, an Azure Cosmos DB account named <code>acct01</code> will be created if the account does NOT exist.	<input type="radio"/>	<input checked="" type="radio"/>
		When the template is deployed, a container named <code>mycontainer</code> in <code>mydb</code> will be created if the container does NOT exist.	<input checked="" type="radio"/>	<input type="radio"/>
		When the template is deployed, if <code>mycontainer</code> exists and has a partition key on <code>name</code> , the partition key will change to <code>companyid</code> .	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION # 119

You are troubleshooting the current issues caused by the application updates.

Which action can address the application updates issue without affecting the functionality of the application?

- A. Set the default consistency level of account1 to strong.
- B. Enable time to live for the con-product container.
- **C. Set the default consistency level of account1 to bounded staleness.**
- D. Add a custom indexing policy to the con-product container.

Answer: C

Explanation:

Bounded staleness is frequently chosen by globally distributed applications that expect low write latencies but require total global order guarantee. Bounded staleness is great for applications featuring group collaboration and sharing, stock ticker, publish-subscribe/queueing etc.

Scenario: 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.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

NEW QUESTION # 120

The following is a sample of a document in orders.

```

{
  "orderId" : "d4a91979b-5ead-43a3-b851-add9a71ac4b6",
  "customerId" : "f6e39103-bdc7-4346-9cfb-45daa4b2becf",
  "orderDate" : "2021-09-29",
  "orderItems" : [
    {
      "itemId" : "6c30412f-3cd7-4cab-813c-05942345720d",
      "name" : "blue pen",
      "type" : "pens",
      "count" : 10,
    },
    ...
  ],
  "total" : 12345,
  "status" : "ordered"
}

```



The orders container uses customerId as the partition key.

You need to provide a report of the total items ordered per month by item type. The solution must meet the following requirements:

Ensure that the report can run as quickly as possible.

Minimize the consumption of request units (RUs).

What should you do?

- A. Configure the report to query orders by using a SQL query through a dedicated gateway.
- B. Configure the report to query a new aggregate container. Populate the aggregates by using SQL queries that run daily.
- C. Configure the report to query orders by using a SQL query.
- **D. Configure the report to query a new aggregate container. Populate the aggregates by using the change feed.**

Answer: D

Explanation:

Explanation

You can facilitate aggregate data by using Change Feed and Azure Functions, and then use it for reporting.

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

NEW QUESTION # 121

You have a container named container1 in an Azure Cosmos DB for NoSQL account named account1 that is set to the session default consistency level. The average size of an item in container1 is 20 KB.

You have an application named App1 that uses the Azure Cosmos DB SDK and performs a point read on the same set of items in container1 every minute.

You need to minimize the consumption of the request units (RUs) associated to the reads by App1. What should you do?

- A. In App1, modify the connection policy settings.
- B. In App1, change the consistency level of read requests to consistent prefix.
- C. In account1, change the default consistency level to bounded staleness.
- **D. In account1, provision a dedicated gateway and integrated cache**

Answer: D

Explanation:

The cost of a point read for a 1 KB item is 1 RU. The cost of other operations depends on factors such as item size, indexing policy, consistency level, and query complexity¹. To minimize the consumption of RUs, you can optimize these factors according to your application needs.

For your scenario, one possible way to minimize the consumption of RUs associated to the reads by App1 is to change the consistency level of read requests to consistent prefix. Consistent prefix is a lower consistency level than session, which is the default consistency level for Azure Cosmos DB. Lower consistency levels consume fewer RUs than higher consistency levels². Consistent prefix guarantees that reads never see out-of-order writes and that monotonic reads are preserved¹. This may be suitable for your application if you can tolerate some eventual consistency.

NEW QUESTION # 122

You have a container named `container1` in an Azure Cosmos DB Core (SQL) API account. Upserts of items in `container1` occur every three seconds.

You have an Azure Functions app named `function1` that is supposed to run whenever items are inserted or replaced in `container1`. You discover that `function1` runs, but not on every upsert.

You need to ensure that `function1` processes each upsert within one second of the upsert.

Which property should you change in the `Function.json` file of `function1`?

- A. `checkpointInterval`
- B. `leaseCollectionsThroughput`
- C. `feedPollDelay`
- D. `maxItemsPerInvocation`

Answer: C

Explanation:

With an upsert operation we can either insert or update an existing record at the same time.

FeedPollDelay: The time (in milliseconds) for the delay between polling a partition for new changes on the feed, after all current changes are drained. Default is 5,000 milliseconds, or 5 seconds.

Incorrect Answers:

A: `checkpointInterval`: When set, it defines, in milliseconds, the interval between lease checkpoints. Default is always after each Function call.

C: `maxItemsPerInvocation`: When set, this property sets the maximum number of items received per Function call. If operations in the monitored collection are performed through stored procedures, transaction scope is preserved when reading items from the change feed. As a result, the number of items received could be higher than the specified value so that the items changed by the same transaction are returned as part of one atomic batch.

NEW QUESTION # 123

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