



DP-420^{Q&As}

Designing and Implementing Cloud-Native Applications Using Microsoft
Azure Cosmos DB

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QUESTION 1

HOTSPOT

You have an Azure Cosmos DB Core (SQL) API account named account1.

In account1, you run the following query in a container that contains 100GB of data.

```
SELECT *  
  
FROM c  
  
WHERE LOWER(c.categoryid) = "hockey"
```

You view the following metrics while performing the query.

Retrieved Document Count	:	45,654
Retrieved Document Size	:	543,765,234 bytes
Output Document Count	:	12
Output Document Size	:	451 bytes
Index Utilization	:	0.00 %
Total Query Execution Time	:	2,400.34 milliseconds
Query Preparation Times		
Query Compilation Time	:	0.09 milliseconds
Logical Plan Build Time	:	0.04 milliseconds
Physical Plan Build Time	:	0.03 milliseconds
Query Optimization Time	:	0.01 milliseconds
Index Lookup Time	:	0.00 milliseconds
Document Load Time	:	3,167.26 milliseconds
Runtime Execution Times		
Query Engine Times	:	299.16 milliseconds
System Function Execution Time	:	79.34 milliseconds
User-defined Function Execution Time	:	0.00 milliseconds
Document Write Time	:	0.01 milliseconds
Client Side Metrics		
Retry Count	:	0
Request Charge	:	3,898.95 RUs

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

Statements	Yes	No
The query performs a cross-partition query	<input type="radio"/>	<input type="radio"/>
The query uses an index	<input type="radio"/>	<input type="radio"/>
Recreating the container with the partition key set to /categoryId will improve the performance of the query	<input type="radio"/>	<input type="radio"/>

Correct Answer:

Answer Area

Statements	Yes	No
The query performs a cross-partition query	<input type="radio"/>	<input checked="" type="radio"/>
The query uses an index	<input type="radio"/>	<input checked="" type="radio"/>
Recreating the container with the partition key set to /categoryId will improve the performance of the query	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No

Each physical partition should have its own index, but since no index is used, the query is not cross-partition.

Box 2: No

Index utilization is 0% and Index Look up time is also zero.

Box 3: Yes

A partition key index will be created, and the query will perform across the partitions.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/how-to-query-container>

QUESTION 2

You have a container in an Azure Cosmos DB for NoSQL account. You need to create an alert based on a custom Log Analytics query. Which signal type should you use?

- A. Log
- B. Metrics
- C. Activity Log



D. Resource Health

Correct Answer: A

Explanation:

You can receive an alert based on the metrics, activity log events, or Log Analytics logs on your Azure Cosmos DB account:

*-> Log Analytics logs– This alert triggers when the value of a specified property in the results of a Log Analytics query crosses a threshold you assign. For example, you can write a Log Analytics query to monitor if the storage for a logical partition key is reaching the 20 GB logical partition key storage limit in Azure Cosmos DB.

Incorrect:

Metrics - The alert triggers when the value of a specified metric crosses a threshold you assign. For example, when the total request units consumed exceed 1000 RU/s. This alert is triggered both when the condition is first met and then afterwards when that condition is no longer being met.

Activity log events – This alert triggers when a certain event occurs. For example, when the keys of your Azure Cosmos DB account are accessed or refreshed.

Reference:

<https://learn.microsoft.com/en-us/azure/cosmos-db/create-alerts>

QUESTION 3

You develop an application that uses Azure Cosmos DB Core (SQL) API.

You create an Azure pipeline to build and deploy the application.

You need to change the pipeline to run integration tests that you wrote for the application. The solution must execute entirely in the pipeline.

What should you add to the pipeline?

- A. a deployment group named Cosmos DB testing
- B. an Azure Cosmos DB Emulator task
- C. a NuGet service connection that uses an Azure Cosmos DB API key
- D. a secret variable that has a connection string to an Azure Cosmos DB database

Correct Answer: B

Explanation:

Set up a CI/CD pipeline with the Azure Cosmos DB Emulator build task in Azure DevOps

The Azure Cosmos DB Emulator provides a local environment that emulates the Azure Cosmos DB service for development purposes. The emulator allows you to develop and test your application locally, without creating an Azure



subscription or incurring any costs.

Reference:

<https://learn.microsoft.com/en-us/azure/cosmos-db/tutorial-setup-ci-cd>

QUESTION 4

HOTSPOT

You have an Azure Cosmos DB Core (SQL) API account named account1 that has the disableKeyBasedMetadataWriteAccessproperty enabled.

You are developing an app named App1 that will be used by a user named DevUser1 to create containers in account1. DevUser1 has a non-privileged user account in the Azure Active Directory (Azure AD) tenant.

You need to ensure that DevUser1 can use App1 to create containers in account1.

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Grant permissions to create containers by using:

	▼
Account keys	
Resource tokens	
Role-based access control (RBAC)	

Create containers by using the:

	▼
Azure AD Graph API	
Azure Resource Manager API	
SQL (Core) API	

Correct Answer:



Answer Area

Grant permissions to create containers by using:

	▼
Account keys	
Resource tokens	
Role-based access control (RBAC)	

Create containers by using the:

	▼
Azure AD Graph API	
Azure Resource Manager API	
SQL (Core) API	

Box 1: Resource tokens

Resource tokens provide access to the application resources within a database. Resource tokens:

Provide access to specific containers, partition keys, documents, attachments, stored procedures, triggers, and UDFs.

Box 2: Azure Resource Manager API

You can use Azure Resource Manager to help deploy and manage your Azure Cosmos DB accounts, databases, and containers.

Incorrect Answers:

The Microsoft Graph API is a RESTful web API that enables you to access Microsoft Cloud service resources.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/secure-access-to-data>

<https://docs.microsoft.com/en-us/rest/api/resources/>

QUESTION 5

You maintain a relational database for a book publisher. The database contains the following tables.



Name	Column
Author	authorId (primary key)
	fullname
	address
	contactinfo
Book	bookId (primary key)
	isbn
	title
	genre
Bookauthorlnk	authorId (foreign key)
	bookId (foreign key)

The most common query lists the books for a given authorId.

You need to develop a non-relational data model for Azure Cosmos DB Core (SQL) API that will replace the relational database. The solution must minimize latency and read operation costs.

What should you include in the solution?

- A. Create a container for Author and a container for Book. In each Author document, embed bookId for each book by the author. In each Book document embed authorId of each author.
- B. Create Author, Book, and Bookauthorlnk documents in the same container.
- C. Create a container that contains a document for each Author and a document for each Book. In each Book document, embed authorId.
- D. Create a container for Author and a container for Book. In each Author document and Book document embed the data from Bookauthorlnk.

Correct Answer: A

Store multiple entity types in the same container.

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