

Microsoft DP-420 Exam Questions: Attain Your Professional Career Goals [2025]



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The Microsoft DP-420 exam validates the candidate's knowledge of Azure Cosmos DB, including its features, capabilities, and design patterns. It also tests the candidate's ability to design and implement applications using Azure Cosmos DB, including data model design, partitioning strategies, and data consistency models. DP-420 Exam also covers best practices for deploying, monitoring, and troubleshooting cloud-native applications using Azure Cosmos DB.

>> DP-420 Test Quiz <<

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The DP-420 Certification Exam consists of multiple-choice questions that cover a range of topics related to designing and implementing cloud-native applications using Azure Cosmos DB. Candidates will be tested on their ability to design containers and partitions, implement data modeling best practices, optimize query performance, and configure and manage Azure Cosmos DB instances.

Microsoft Designing and Implementing Cloud-Native Applications Using

Microsoft Azure Cosmos DB Sample Questions (Q76-Q81):

NEW QUESTION # 76

You have an Azure Cosmos DB Core (SQL) API account named storage1 that uses provisioned throughput capacity mode. The storage1 account contains the databases shown in the following table.

Name	Throughput	Max request units per second (RU/s)	Geo-redundancy	Multi-region writes	Number of regions
db1	Autoscale	5,000	Disabled	Disabled	1
db2	Autoscale	8,000	Enabled	Enabled	3

The databases contain the containers shown in the following table.

Name	Database	Throughput
cn01	db1	Container - autoscale maximum RU/s of 10,000
cn02	db1	Database
cn03	db1	Database
cn04	db1	Database
cn05	db1	Database
cn11	db2	Database
cn12	db2	Database
cn13	db2	Database
cn14	db2	Database
cn15	db2	Database
cn16	db2	Database
cn17	db2	Database
cn18	db2	Database

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
At a minimum, you will be billed for 4,000 RU/s per hour for db1	☐	☐
The maximum throughput that can be consumed by cn11 is 400 RU/s	☐	☐
To db2, you can add a new container that uses database throughput	☐	☐

Answer:

Explanation:

Statements	Yes	No
At a minimum, you will be billed for 4,000 RU/s per hour for db1	☐	☒
The maximum throughput that can be consumed by cn11 is 400 RU/s	☐	☒
To db2, you can add a new container that uses database throughput	☒	☐

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/plan-manage-costs>

<https://azure.microsoft.com/en-us/pricing/details/cosmos-db/>

NEW QUESTION # 77

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account.

You need to make the contents of container1 available as reference data for an Azure Stream Analytics job.

Solution: You create an Azure Data Factory pipeline that uses Azure Cosmos DB Core (SQL) API as the input and Azure Blob Storage as the output.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Explanation

Instead create an Azure function that uses Azure Cosmos DB Core (SQL) API change feed as a trigger and Azure event hub as the output.

The Azure Cosmos DB change feed is a mechanism to get a continuous and incremental feed of records from an Azure Cosmos container as those records are being created or modified. Change feed support works by listening to container for any changes. It then outputs the sorted list of documents that were changed in the order in which they were modified.

The following diagram represents the data flow and components involved in the solution:



Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/changefeed-e-commerce-solution>

NEW QUESTION # 78

You have an Azure Cosmos DB Core (SQL) API account that is used by 10 web apps.

You need to analyze the data stored in the account by using Apache Spark to create machine learning models.

The solution must NOT affect the performance of the web apps.

Which two actions should you perform? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. In an Azure Synapse Analytics serverless SQL pool, create a view that uses OPENROWSET and the CosmosDB provider.
- B. Create a private endpoint connection to the account.
- C. In an Apache Spark pool in Azure Synapse, create a table that uses cosmos.olap as the data source.

- D. In an Apache Spark pool in Azure Synapse, create a table that uses cosmos.oltp as the data source.
- E. Enable Azure Synapse Link for the account and Analytical store on the container.

Answer: C,E

Explanation:

Reference:

<https://github.com/microsoft/MCW-Cosmos-DB-Real-Time-Advanced-Analytics/blob/main/Hands-on%20lab/HOL%20step-by%20step%20-%20Cosmos%20DB%20real-time%20advanced%20analytics.md>

NEW QUESTION # 79

You have a database in an Azure Cosmos DB for NoSQL account that is configured for multi-region writes.

You need to use the Azure Cosmos DB SDK to implement the conflict resolution policy for a container. The solution must ensure that any conflict sent to the conflict feed.

Solution: You set ConflictResolutionMode to Custom. You Set ResolutionProcedures to a custom stored procedure. You configure the custom stored procedure to use the isTomstone parameter to resolve conflict.

Does this meet the goal?

- A. No
- B. Yes

Answer: B

Explanation:

Explanation

The solution is incorrect because there is no "isTom" parameter in the Azure Cosmos DB SDK. The correct parameter is "isTombstone".

NEW QUESTION # 80

You need to recommend indexes for con-product and con-productVendor. The solution must meet the product catalog requirements and the business requirements.

Which type of index should you recommend for each container? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

con-product:
 Composite on con-productVendor and id
 Range on con-productVendor
 Spatial on con-productVendor

con-productVendor:
 Composite on creditRating and yearFounded
 Range on creditRating
 Range on yearFounded

Answer:

Explanation:

Answer Area

con-product:
 Composite on con-productVendor and id
 Range on con-productVendor
 Spatial on con-productVendor

con-productVendor:
 Composite on creditRating and yearFounded
 Range on creditRating
 Range on yearFounded

Answer Area

```

classDiagram
    class con-product {
        Composite on con-productVendor and id
    }
    class con-productVendor {
        Composite in creditRating and yearFounded
    }
    con-product --> con-productVendor : Range on con-productVendor
    con-productVendor --> con-productVendor : Range on yearFounded
  
```

The diagram illustrates the structure of two entities: **con-product** and **con-productVendor**.

- con-product** is a composite entity consisting of **con-productVendor** and **id**. It has a **Range on con-productVendor**.
- con-productVendor** is a composite entity consisting of **creditRating** and **yearFounded**. It has a **Range on yearFounded**.

NEW QUESTION # 81

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