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Microsoft DP-420 certification exam is aimed at software engineers, application developers, database administrators, and architects who are responsible for designing and implementing cloud-native applications. DP-420 exam measures the candidate's ability to design, implement, and manage cloud-native applications using Azure Cosmos DB. DP-420 exam covers a wide range of topics, including data modeling, partitioning, indexing, querying, and scaling. Candidates will also be required to demonstrate their knowledge of Azure Cosmos DB's multi-model capabilities, including support for SQL, MongoDB, Cassandra, and Azure Table storage APIs.

The DP-420 certification exam covers various topics, including Azure Cosmos DB data modeling, partitioning, consistency, and throughput. Candidates will be tested on their ability to design and implement Cosmos DB solutions using various APIs and programming languages such as SQL, MongoDB, Cassandra, and Azure Table API. They will also be expected to understand how to integrate Cosmos DB with other Azure services and implement security, backup, and recovery strategies.

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.

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## Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q98-Q103):

### NEW QUESTION # 98

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

You need to use the Azure Cosmos DB SDK to replace a document by using optimistic concurrency.

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

NOTE: Each correct selection is worth one point.

□

**Answer:**

Explanation:

Explanation

Box 1: ConsistencyLevel

The ItemRequestOptions Class ConsistencyLevel property gets or sets the consistency level required for the request in the Azure Cosmos DB service.

Azure Cosmos DB offers 5 different consistency levels. Strong, Bounded Staleness, Session, Consistent Prefix and Eventual - in order of strongest to weakest consistency.

Box 2: \_etag

The ItemRequestOptions class helped us implement optimistic concurrency by specifying that we wanted the SDK to use the If-Match header to allow the server to decide whether a resource should be updated. The If-Match value is the ETag value to be checked against. If the ETag value matches the server ETag value, the resource is updated.

Reference:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.cosmos.itemrequestoptions>

<https://cosmosdb.github.io/labs/dotnet/labs/10-concurrency-control.html>

## NEW QUESTION # 99

The following is a sample of a document in orders.

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

### Answer: A

Explanation:

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

## NEW QUESTION # 100

You have an Azure Cosmos DB Core (SQL) API account that is configured for multi-region writes. The account contains a database that has two containers named container1 and container2.

The following is a sample of a document in container1:

```
{  
  "customerId": 1234,  
  "firstName": "John",  
  "lastName": "Smith",  
  "policyYear": 2021  
}
```

The following is a sample of a document in container2:

```
{  
  "gpsId": 1234,  
  "latitude": 38.8951,  
  "longitude": -77.0364  
}
```

You need to configure conflict resolution to meet the following requirements:

For container1 you must resolve conflicts by using the highest value for policyYear.

For container2 you must resolve conflicts by accepting the distance closest to latitude: 40.730610 and longitude: -73.935242.

Administrative effort must be minimized to implement the solution.

What should you configure for each container? To answer, drag the appropriate configurations to the correct containers. Each configuration may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/conflict-resolution-policies>  
<https://docs.microsoft.com/en-us/azure/cosmos-db/sql/how-to-manage-conflicts>

**NEW QUESTION # 101**

You are implementing an Azure Data Factory data flow that will use an Azure Cosmos DB (SQL API) sink to write a dataset. The data flow will use 2,000 Apache Spark partitions.

You need to ensure that the ingestion from each Spark partition is balanced to optimize throughput.

Which sink setting should you configure?

- A. Write throughput budget
- **B. Batch size**
- C. Collection action
- D. Throughput

**Answer: B**

Explanation:

Explanation

Batch size: An integer that represents how many objects are being written to Cosmos DB collection in each batch. Usually, starting with the default batch size is sufficient. To further tune this value, note:

Cosmos DB limits single request's size to 2MB. The formula is "Request Size = Single Document Size \* Batch Size". If you hit error saying "Request size is too large", reduce the batch size value.

The larger the batch size, the better throughput the service can achieve, while make sure you allocate enough RUs to empower your workload.

Reference: <https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-cosmos-db>

**NEW QUESTION # 102**

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

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:**

Explanation:

Explanation:

**NEW QUESTION # 103**

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