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Reliable DP-420 Exam Questions: Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB



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The Microsoft DP-420 exam measures the candidate's proficiency in various areas such as designing and implementing Cosmos DB solutions, designing and implementing global distribution solutions, designing and implementing non-relational data modeling, designing and implementing server-side programming models, and designing and implementing security solutions. DP-420 exam requires the candidate to demonstrate their expertise in using various tools and technologies such as Azure Cosmos DB, Azure Functions, Azure Event Grid, Azure Stream Analytics, and Azure Search. Passing DP-420 exam validates the candidate's ability to design and implement cloud-native applications on Microsoft Azure using Cosmos DB and prepares them for a successful career in cloud-native application development.

Microsoft DP-420 exam covers a wide range of topics related to cloud-native application development using Azure Cosmos DB. These topics include designing and implementing Cosmos DB databases, developing Cosmos DB solutions using various APIs and programming languages, designing and implementing data partitioning strategies, and optimizing Cosmos DB performance and scalability. Passing DP-420 Exam demonstrates your expertise in cloud-native application development using Azure Cosmos DB, making you an invaluable asset to any organization that uses Azure for their cloud-based data management needs.

Azure Cosmos DB is a globally distributed, multi-model database service provided by Microsoft. It is designed to handle massive

amounts of data at global scale, and it supports multiple data models, including document, key-value, graph, and column-family. Azure Cosmos DB is a popular choice for building cloud-native applications because of its scalability, high availability, and global distribution capabilities.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q92-Q97):

NEW QUESTION # 92

You have an Azure Cosmos DB container named container1.

You need to insert an item into container1. The solution must ensure that the item is deleted automatically after two hours.

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

NOTE: Each correct selection is worth one point.

Answer Area

```
{
  "id": "1",
  "customerOrderNumber": "XA2342093",
  "orderDate": "2022-04-22T09:34:42",
  "customerNumber": 234223,
  "orderItems":
  [
    {
      "id": 1,
      "quantity": 12,
      "productCode": "8234BLK"
    }
  ]
  "_attachments": "attachments/",
  "ttl": 7200,
  "_ts": 1551322496
}
```

Answer:

Explanation:

Answer Area

```
{
  "id": "1",
  "customerOrderNumber": "XA2342093",
  "orderDate": "2022-04-22T09:34:42",
  "customerNumber": 234223,
  "orderItems":
  [
    {
      "id": 1,
      "quantity": 12,
      "productCode": "8234BLK"
    }
  ]
  "_attachments": "attachments/",
  "ttl": {
    "defaultTimeToLive": 7200,
    "ttl": 7200,
    "_ttl": 7200
  },
  "_ts": 1551322496
}
```



Explanation:

Answer Area

```
{
  "id": "1",
  "customerOrderNumber": "XA2342093",
  "orderDate": "2022-04-22T09:34:42",
  "customerNumber": 234223,
  "orderItems":
  [
    {
      "id": 1,
      "quantity": 12,
      "productCode": "B234BLK"
    }
  ]
  "_attachments": "attachments/",
  "ttl": 7200,
  "_ts": 1551322496
}
```



NEW QUESTION # 93

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 and you use the default settings for the policy.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Explanation

Setting ConflictResolutionMode to Custom and using the default settings for the policy will not ensure that conflicts are sent to the conflict feed. You need to define a custom stored procedure using the

"conflictingItems" parameter to handle conflicts properly.

NEW QUESTION # 94

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

Does this meet the goal?

- A. Yes
- B. No

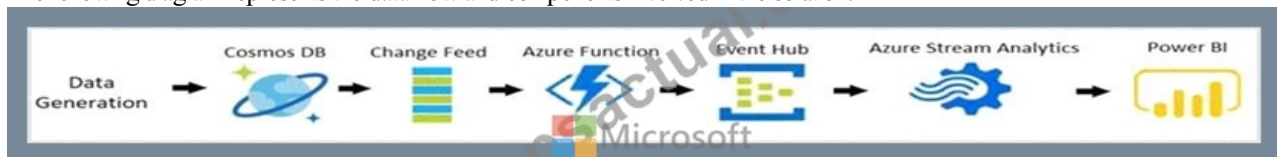
Answer: A

Explanation:

Explanation

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-ecommerce-solution>

NEW QUESTION # 95

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

The following is a sample of a document in container1.

```
{
  "studentId": "631282",
  "firstName": "James",
  "lastName": "Smith",
  "enrollmentYear": 1990,
  "isActivelyEnrolled": true,
  "address": {
    "street": "",
    "city": "",
    "stateProvince": "",
    "postal": ""
  }
}
```

The container1 container has the following indexing policy.

```
{
  "indexingMode": "consistent",
  "includePaths": [
    {
      "path": "/*"
    },
    {
      "path": "/address/city/?"
    }
  ]
}
```

```

],
"excludePaths": [
{
"path": "/address/*"
},
{
"path": "/firstName/?"
}
]
}

```

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
The /isActivelyEnrolled property is included in the index	<input type="radio"/>	<input type="radio"/>
The /fisrtname property is included in the index	<input type="radio"/>	<input type="radio"/>
The /address/city property is included in the index	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Statements	Yes	No
The /isActivelyEnrolled property is included in the index	<input checked="" type="radio"/>	<input type="radio"/>
The /fisrtname property is included in the index	<input type="radio"/>	<input checked="" type="radio"/>
The /address/city property is included in the index	<input checked="" type="radio"/>	<input type="radio"/>

Explanation:

Statements	Yes	No
The /isActivelyEnrolled property is included in the index	<input checked="" type="radio"/>	<input type="radio"/>
The /fisrtname property is included in the index	<input type="radio"/>	<input checked="" type="radio"/>
The /address/city property is included in the index	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: Yes

"path": "/" is in includePaths.

Include the root path to selectively exclude paths that don't need to be indexed. This is the recommended approach as it lets Azure Cosmos DB proactively index any new property that may be added to your model.

Box 2: No

"path": "/firstName/?" is in excludePaths.

Box 3: Yes

"path": "/address/city/?" is in includePaths

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


```
{
  "orderId": "d4a9179b-5ead-43a3-bb51-e0d9a71ac4b6",
  "customerId": "f6e39103-bdc7-4346-9cfb-45daa4b2becf",
  "orderDate": "2022-09-29",
  "orderItems": [
    {
      "productId": "1",
      "quantity": 1
    }
  ]
}
```

NOTE: Each correct selection is worth one point.

- Answer: A,B**

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