



# DP-420<sup>Q&As</sup>

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

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## QUESTION 1

### HOTSPOT

You have three containers in an Azure Cosmos DB Core (SQL) API account as shown in the following table.

Name	Database	Time to Live
cn1	db1	On (no default)
cn2	db1	Off
cn3	db1	On (no default)

You have the following Azure functions:

1.

A function named Fn1 that reads the change feed of cn1

2.

A function named Fn2 that reads the change feed of cn2

3.

A function named Fn3 that reads the change feed of cn3 You perform the following actions:

1.

Delete an item named item1 from cn1.

2.

Update an item named item2 in cn2.

3.

For an item named item3 in cn3, update the item time to live to 3,600 seconds.

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
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input type="radio"/>
Fn2 can check the <code>_etag</code> of item2 to see whether the item is an update or an insert	<input type="radio"/>	<input type="radio"/>
Fn3 will receive item3 from the change feed	<input type="radio"/>	<input type="radio"/>

Correct Answer:

**Answer Area**

Statements	Yes	No
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input checked="" type="radio"/>
Fn2 can check the <code>_etag</code> of item2 to see whether the item is an update or an insert	<input type="radio"/>	<input checked="" type="radio"/>
Fn3 will receive item3 from the change feed	<input checked="" type="radio"/>	<input type="radio"/>

Box 1: No

Azure Cosmos DB's change feed is a great choice as a central data store in event sourcing architectures where all data ingestion is modeled as writes (no updates or deletes).

Note: The change feed does not capture deletes. If you delete an item from your container, it is also removed from the change feed. The most common method of handling this is adding a soft marker on the items that are being deleted. You

can add a property called "deleted" and set it to "true" at the time of deletion. This document update will show up in the change feed. You can set a TTL on this item so that it can be automatically deleted later.

Box 2: No

The `_etag` format is internal and you should not take dependency on it, because it can change anytime.

Box 3: Yes

Change feed support in Azure Cosmos DB works by listening to an Azure Cosmos container for any changes.

Reference:

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

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



## QUESTION 2

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

Correct Answer: B

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.

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## QUESTION 3

You have an application that queries an Azure Cosmos DB for NoSQL account.

You discover that the following two queries run frequently,

```
SELECT * FROM c WHERE c.name = @name ORDER BY c.name  
DESC, c.timestamp DESC
```

```
SELECT * FROM c WHERE c.name = @name AND c.timestamp  
ORDER BY c.name ASC, c.timestamp ASC
```

You need to minimize the request units (RUs) consumed by reads and writes. What should you create?

A. a composite index for (name DESC, time stamp ASC)

B. a composite index for (name ASC, time stamp DESC)

C. a composite index for (name ASC time stamp ASC) and a composite index for (name, time stamp desc)

D. a composite index for (name ASC, time stamp ASC)

Correct Answer: D

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## QUESTION 4

You have a database named db1 in an Azure Cosmos DB for NoSQL account named account 1.

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You need to write JSON data to db1 by using Azure Stream Analytics. The solution must minimize costs.

Which should you do before you can use db1 as an output of Stream Analytics?

- A. In account, add a private endpoint.
- B. In db1, create containers that have a custom indexing policy and analytical store disabled.
- C. In account, enable a dedicated gateway.
- D. In db1, create containers that have an automatic indexing policy and analytical store enabled.

Correct Answer: A

### QUESTION 5

You have an Azure Cosmos DB database named databaset contains a container named container1. The container1 container store product data and has the following indexing policy.

```
{
  "indexingMode": "consistent",
  "includedPaths":
  [
    {
      "path": "/product/category/?"
    },
    {
      "path": "/product/brand/?"
    }
  ],
  "excludedPaths":
  [
    {
      "path": "/*"
    },
    {
      "path": "/product/brand"
    }
  ]
}
```

Which path will be indexed?

- A. /product/brand



B. /product/category

C. /product/[ ]/category

D. /product/brand/tailspin

Correct Answer: A

The indexing policy has an includedPaths array that contains only one path:

/product/brand/. This means that only the properties under /product/brand will be indexed.

The symbol indicates that only scalar values will be indexed, not arrays or objects<sup>1</sup>.

The excludedPaths array contains a single path: /\*.

This means that all other properties will be excluded from indexing.

The \* symbol indicates a wildcard that matches any property name<sup>1</sup>.

Therefore, the paths /product/category, /product/[ ]/category, and /product/brand/tailspin will not be indexed.

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