

# **Free Questions for DP-420**

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# Question 1

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## Question Type: Hotspot

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You have an Azure subscription. The subscription contains an Azure Cosmos DB for NoSQL account named account1 that hosts a container named Customers. Multi-region writes are allowed.

You execute the following C# code.

```
var sales = await createClient.GetDatabase("sales");
var customers = await sales.CreateContainerIfNotExistsAsync
(
    new ContainerProperties("customers", "/id")
    {
        ConflictResolutionPolicy = ConflictResolutionPolicy.LastWriterWins
    }
);
```

True, Otherwise, select No.

Answer Area

Statements

Yes

No

conflict is the ID of the stored procedure used for conflict resolution.

Answer:

When a write conflict occurs, the id property of items in customers will hold the session token of the last writer.

Changing the conflict resolution policy for customers to LastWriterWins requires dropping the container.

# Question 2

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## Question Type: MultipleChoice

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You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account named account1.

Backups for account1 have the following configurations:

\* Interval: 2 hours

\* Retention period: 4 days

You need to estimate the charges associated with the retention of the backups. How many copies of the backups will incur additional charges?

**Options:**

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A- 8

B- 12

C- 46

D- 48

**Answer:**

---

C

## Question 3

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**Question Type: MultipleChoice**

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You have an Azure Cosmos DB for NoSQL account that contains a database named DB1 and a container named Container1. You need to manage the account by using the Azure Cosmos DB SDK. What should you do?

**Options:**

---

- A- List the physical partitions of Container1.
- B- Read a stored procedure in Container1.
- C- Create a user defined function (UDF) in Container1.
- D- Create a container in DB1.

**Answer:**

---

C

## Question 4

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**Question Type:** MultipleChoice

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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?

**Options:**

---

A- Yes

B- No

**Answer:**

---

B

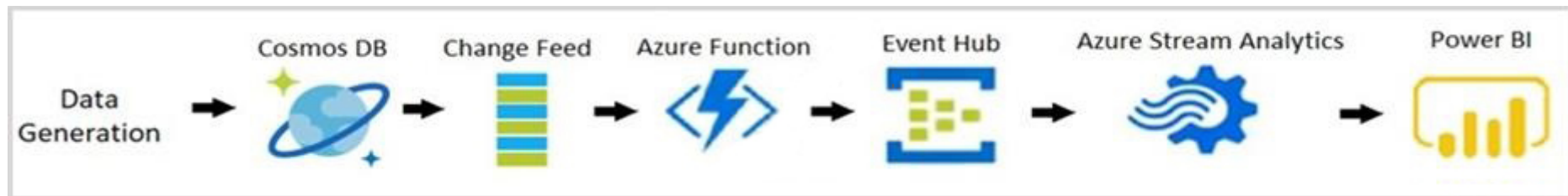
**Explanation:**

---

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:



## Question 5

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**Question Type:** MultipleChoice

---

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 Synapse pipeline that uses Azure Cosmos DB Core (SQL) API as the input and Azure Blob Storage as the output.

Does this meet the goal?

**Options:**

---

**A-** Yes

**B-** No

**Answer:**

---

B

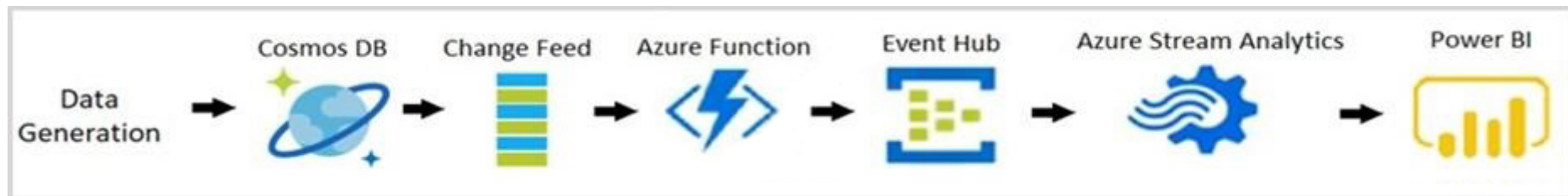
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The following diagram represents the data flow and components involved in the solution:



## Question 6

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**Question Type:** Hotspot

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You configure Azure Cognitive Search to index a container in an Azure Cosmos DB Core (SQL) API account as shown in the following exhibit.



+ Add field + Add subfield Delete

The [answer choice] field is limited to exact match comparisons

	▼
country	
id	
name	

Answer:

**Question 7** The [answer choice] field is hidden from the search results

	▼
country	
id	
name	

Question Type: 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)

A function named FN3 that reads the change feed of cn3

You perform the following actions:

Delete an item named item1 from cn1.

Update an item named item2 in cn2.

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.

Statements	Yes	No
Fn1 will receive item1 from the change feed	<input type="radio"/>	<input type="radio"/>
<b>Answer:</b>	<hr/>	
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"/>
<b>Explanation:</b>	<hr/>	
<a href="https://docs.microsoft.com/en-us/azure/cosmos-db/sql/change-feed-design-patterns">https://docs.microsoft.com/en-us/azure/cosmos-db/sql/change-feed-design-patterns</a>	<input type="radio"/>	<input type="radio"/>
Fn3 will receive item3 from the change feed	<input type="radio"/>	<input type="radio"/>
<a href="https://docs.microsoft.com/en-us/azure/cosmos-db/change-feed">https://docs.microsoft.com/en-us/azure/cosmos-db/change-feed</a>		

## Question 8

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**Question Type:** MultipleChoice

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The following is a sample of a document in orders.

```
{
  "orderId" : "d4a91979b-5ead-43a3-b851-add9a71ac4b6",
  "customerId" : "f6e39103-bdc7-4346-9cfb-45daa4b2becf",
  "orderDate" : "2021-09-29",
  "orderItems" : [
    {
      "itemId" : "6c30412f-3cd7-4cab-813c-05942345720d",
      "name" : "blue pen",
      "type" : "pens",
      "count" : 10,
    },
    ...
  ],
  "total" : 12345,
  "status" : "ordered"
}
```

The orders container uses customer 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?

**Options:**

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- A-** Configure the report to query orders by using a SQL query.
- B-** Configure the report to query a new aggregate container. Populate the aggregates by using the change feed.
- 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:**

---

B

**Explanation:**

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

## Question 9

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**Question Type:** MultipleChoice

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You have an Azure Cosmos DB Core (SQL) API account that uses a custom conflict resolution policy. The account has a registered merge procedure that throws a runtime exception.

The runtime exception prevents conflicts from being resolved.

You need to use an Azure function to resolve the conflicts.

What should you use?

### Options:

---

- A-** a function that pulls items from the conflicts feed and is triggered by a timer trigger
- B-** a function that receives items pushed from the change feed and is triggered by an Azure Cosmos DB trigger
- C-** a function that pulls items from the change feed and is triggered by a timer trigger
- D-** a function that receives items pushed from the conflicts feed and is triggered by an Azure Cosmos DB trigger

### Answer:

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D

### Explanation:

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The Azure Cosmos DB Trigger uses the Azure Cosmos DB Change Feed to listen for inserts and updates across partitions. The change feed publishes inserts and updates, not deletions.

## Question 10

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**Question Type:** MultipleChoice

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The settings for a container in an Azure Cosmos DB Core (SQL) API account are configured as shown in the following exhibit.

Settings

Indexing Policy

### Time to Live

- Off
- On (no default)
- On

### Geospatial Configuration

- Geography
- Geometry

Partition key

Which statement describes the configuration of the container?

**Options:**

---

- A- All items will be deleted after one year.
- B- Items stored in the collection will be retained always, regardless of the items time to live value.
- C- Items stored in the collection will expire only if the item has a time to live value.
- D- All items will be deleted after one hour.

**Answer:**

---

C

**Explanation:**

---

When DefaultTimeToLive is -1 then your Time to Live setting is On (No default)

Time to Live on a container, if present and the value is set to '-1', it is equal to infinity, and items don't expire by default.

Time to Live on an item:

This Property is applicable only if DefaultTimeToLive is present and it is not set to null for the parent container.

If present, it overrides the DefaultTimeToLive value of the parent container.



# Question 11

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## Question Type: Hotspot

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You have a database named telemetry in an Azure Cosmos DB Core (SQL) API account that stores IoT data.

a. The database contains two containers named readings and devices.

Documents in readings have the following structure.

id

deviceid

timestamp

ownerid

measures (array)

- type

- value

- metricid

Documents in devices have the following structure.

id

deviceid

owner

- ownerid

- emailaddress

- name

brand

model

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
To return for all devices owned by a specific emailaddress, multiple queries must be performed	<input type="radio"/>	<input type="radio"/>
To return deviceid, ownerid, timestamp, and value for a specific metricid, a join must be performed	<input type="radio"/>	<input type="radio"/>
<del>To return deviceid, ownerid, emailaddress, and model, a join must be performed</del>	<del><input type="radio"/></del>	<del><input type="radio"/></del>

**Question 12**

Question Type: Hotspot

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

Name	Database	Throughput
cn01	db1	Container - autoscale maximum RU/s of 10,000

**Statements** **Yes** **No**

At a minimum, you will be billed for 4,000 RU/s per hour for db1

**Explanation:**  
~~The maximum throughput that can be consumed by cn11 is 400 RU/s~~

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

~~To db2, you can add a new container that uses database throughput~~

Container	Database	Throughput
cn16	db2	Database
cn17	db2	Database
cn18	db2	Database

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