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Microsoft DP-420 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Design and implement data distribution	5-10%	- Design replication strategy 1. Configure multi-region replication 2. Implement multi-region write
		- Manage data distribution and failover 1. Define failover priorities 2. Manage regional availability

- Manage data movement
 - 1. Migrate between APIs or regions
 - 2. Import/export data
- Implement security
 - 1. Manage authentication and authorization
 - 2. Encrypt data at rest and in transit
- Implement backup and restore

Topic 2: Maintain an Azure Cosmos DB solution 25-30%

- 1. Perform point-in-time restore
- 2. Configure periodic backup
- DevOps and automation
 - 1. Automate operations
 - 2. Deploy via ARM, Bicep, CLI
- Monitor and troubleshoot
 - 1. Analyze metrics and logs
 - 2. Use Azure Monitor and Application Insights
- Work with change feed
 - 1. Process changes incrementally
 - 2. Trigger downstream workflows
- Optimize query performance

Topic 3: Optimize an Azure Cosmos DB solution 15-20%

- 1. Tune query structure and syntax
- 2. Optimize throughput allocation
- Define and implement indexing strategy
 - 1. Select index types and paths
 - 2. Exclude or include properties
- Enable analytical workloads
 - 1. Configure analytical store
 - 2. Use Synapse Link

Topic 4: Integrate an Azure Cosmos DB solution 5-10%

- Integrate with Azure services
 - 1. Use with Azure Functions, Logic Apps, Event Hubs
 - 2. Connect to Azure Stream Analytics

Topic 5: Design and implement data models	35-40%	- Plan sizing and scaling
		• 1. Select consistency levels • 2. Provision throughput and storage
		- Design and implement non-relational data models
		• 1. Embed related entities in documents • 2. Define primary and unique keys • 3. Denormalize data across documents • 4. Reference between documents • 5. Store multiple entity types in one container • 6. Identify data and access patterns • 7. Configure time-to-live (TTL)
		- Design partitioning strategy
		• 1. Plan for distribution and throughput • 2. Choose partition key based on workload
		- Implement connectivity and data access
		• 1. Use SDKs to connect and operate • 2. Write efficient SQL queries

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Test DP-420 Simulator Online - DP-420 Related Exams

This way you can get knowledge about the Microsoft DP-420 exam environment beforehand. Windows computers support the Microsoft DP-420 desktop practice exam software. It works offline whereas the web-based DP-420 Practice Test requires an active internet connection. Major browsers and operating systems support the online DP-420 mock exam.

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q236-Q241):

NEW QUESTION # 236

You have a container that stores data about families. The following is a sample document.

```

{
  "lastName": "Cartwright",
  "parents": [
    {
      "firstName": "Elvira",
      "role": "mother",
      "age": 64
    },
    {
      "firstName": "Randolph",
      "role": "father",
      "age": 67
    }
  ],
  "children": [
    {
      "grade": 5,
      ],
      "name": "Pat",
      "age": 13,
      "gender": "male"
    }
  ]
}

```

For each of the following statements, select Yes if the statement is true. otherwise, select No.
 NOTE: Each correct selection is worth one point.

Answer Area			
Statements		Yes	No
Children who do not have parents defined will appear on the list.		☐	☐
Children who have more than one pet will appear on the list multiple times.		☐	☐
Children who do not have pets defined will appear on the list.		☐	☐

Answer:

Explanation:

Answer Area		Statements	Yes	No
☐	☐	Children who do not have parents defined will appear on the list.	☐	☒
☐	☐	Children who have more than one pet will appear on the list multiple times.	☒	☐
☐	☐	Children who do not have pets defined will appear on the list.	☐	☒

Explanation

Children who do not have parents defined will appear on the list = NO

Children who do not have parents defined will not appear on the list. This is because the document schema defines the children property as an array of objects that contain the firstName and gender properties of each child, as well as a parents property that references the id values of the parents. If a child does not have parents defined, it means that the parents property is either missing or empty for that child. Therefore, such a child will not be included in the list of children who have parents defined.

Children who have more than one pet will appear on the list multiple times. = Yes Children who have more than one pet will appear on the list multiple times. This is because the document schema defines the pets property as an array of objects that contain the givenName and type properties of each pet, as well as a children property that references the id values of the children who own the pet. If a child has more than one pet, it means that the child's id value will appear in the children property of multiple pet objects. Therefore, such a child will be included in the list of children who have pets multiple times.

Children who do not have pets defined will appear on the list = No

Children who do not have pets defined will not appear on the list. This is because the document schema defines the pets property as an array of objects that contain the givenName and type properties of each pet, as well as a children property that references the id values of the children who own the pet. If a child does not have pets defined, it means that the child's id value does not appear in the children property of any pet object.

Therefore, such a child will not be included in the list of children who have pets defined.

NEW QUESTION # 237

You need to provide a solution for the Azure Functions notifications following updates to con-product. The solution must meet the business requirements and the product catalog requirements.

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

NOTE: Each correct selection is worth one point.

- A. Configure the trigger for each function to use a different leaseCollectionPrefix
- B. Configure the trigger for each function to use the same leaseCollectionPrefix
- C. Configure the trigger for each function to use the same leaseCollectionName
- D. Configure the trigger for each function to use a different leaseCollectionName

Answer: A,C

Explanation:

leaseCollectionPrefix: when set, the value is added as a prefix to the leases created in the Lease collection for this Function. Using a prefix allows two separate Azure Functions to share the same Lease collection by using different prefixes.

Scenario: Use Azure Functions to send notifications about product updates to different recipients.

Trigger the execution of two Azure functions following every update to any document in the con-product container.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-functions/functions-bindings-cosmosdb-v2-trigger>

NEW QUESTION # 238

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:

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 # 239

You have the indexing policy shown in the following exhibit.

SQL API

Items

Settings

Test

Scale

families

Items

Settings

Stored Procedures

User Defined Functions

Triggers

Settings

Indexing Policy

```

1  {
2    "indexingMode": "consistent",
3    "automatic": true,
4    "includedPaths": [
5      {
6        "path": "/surname/?"
7      }
8    ],
9    "excludedPaths": [
10     {
11       "path": "/*"
12     }
13   ],
14   "compositeIndexes": [
15     {
16       "path": "/name"
17     },
18     {
19       "path": "/age"
20     }
21   ]
22 ]
23 }
24
  
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the graphic.

NOTE: Each correct selection is worth one point.

When creating a query, which ORDER BY statement will execute successfully?

	▼
ORDER BY c.age ASC, c.name ASC	
ORDER BY c.age DESC, c.name DESC	
ORDER BY c.name ASC, c.age DESC	
ORDER BY c.name DESC, c.age ASC	
ORDER BY c.name DESC, c.age DESC	

During the creation of an item, when will the index update?

	▼
Never	
At a scheduled interval	
At the same time as the item creation	
After the item appears in the change feed	

Answer:

Explanation:

When creating a query, which ORDER BY statement will execute successfully?

	▼
ORDER BY c.age ASC, c.name ASC	
ORDER BY c.age DESC, c.name DESC	
ORDER BY c.name ASC, c.age DESC	
ORDER BY c.name DESC, c.age ASC	
ORDER BY c.name DESC, c.age DESC	

During the creation of an item, when will the index update?

	▼
Never	
At a scheduled interval	
At the same time as the item creation	
After the item appears in the change feed	

NEW QUESTION # 240

You are troubleshooting the current issues caused by the application updates.

Which action can address the application updates issue without affecting the functionality of the application?

- A. Set the default consistency level of account1 to strong.
- B. Set the default consistency level of account1 to bounded staleness.
- C. Add a custom indexing policy to the con-product container.
- D. Enable time to live for the con-product container.

Answer: B

Explanation:

Bounded staleness is frequently chosen by globally distributed applications that expect low write latencies but require total global order guarantee. Bounded staleness is great for applications featuring group collaboration and sharing, stock ticker, publish-subscribe/queueing etc.

Scenario: Application updates in con-product frequently cause HTTP status code 429 "Too many requests". You discover that the 429 status code relates to excessive request unit (RU) consumption during the updates.

Reference:

<https://docs.microsoft.com/en-us/azure/cosmos-db/consistency-levels>

Topic 1, Litware, inc

Overview

This is a case study. Case studies are not timed separately. You can use as much exam time as you would like to complete each case. However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case

studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study

To display the first question in this case study, click the Next button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an All Information tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the Question button to return to the question.

Overview

Litware, Inc. is a United States-based grocery retailer. Litware has a main office and a primary datacenter in Seattle. The company has 50 retail stores across the United States and an emerging online presence. Each store connects directly to the internet.

Existing environment. Cloud and Data Service Environments.

Litware has an Azure subscription that contains the resources shown in the following table.

Name	Type	Description
account1	Azure Cosmos DB Core (SQL) API account	The account has a single read-write region and contains a database named productdb. The productdb database contains two containers named con-product and con-productVendor. The account uses the session default consistency level.
iothub1	Azure IoT hub	The IoT hub collects per-second temperature and humidity telemetry from 5,000 IoT devices in the retail stores. A single telemetry reading generates 1 KB of data.
streamanalytics1	Azure Stream Analytics job	The job processes telemetry data collected from iothub1.

Each container in productdb is configured for manual throughput.

The con-product container stores the company's product catalog data. Each document in con-product includes a con-productVendor value. Most queries targeting the data in con-product are in the following format.

SELECT * FROM con-product p WHERE p.con-productVendor = 'name'

Most queries targeting the data in the con-productVendor container are in the following format SELECT * FROM con-productVendor pv ORDER BY pv.creditRating, pv.yearFounded Existing environment. Current Problems.

Litware identifies the following issues:

Updates to product categories in the con-productVendor container do not propagate automatically to documents in the con-product container.

Application updates in con-product frequently cause HTTP status code 429 "Too many requests". You discover that the 429 status code relates to excessive request unit (RU) consumption during the updates.

Requirements. Planned Changes

Litware plans to implement a new Azure Cosmos DB Core (SQL) API account named account2 that will contain a database named iotdb. The iotdb database will contain two containers named con-iot1 and con-iot2.

Litware plans to make the following changes:

Store the telemetry data in account2.

Configure account1 to support multiple read-write regions.

Implement referential integrity for the con-product container.

Use Azure Functions to send notifications about product updates to different recipients.

Develop an app named App1 that will run from all locations and query the data in account1.

Develop an app named App2 that will run from the retail stores and query the data in account2. App2 must be limited to a single DNS endpoint when accessing account2.

Requirements. Business Requirements

Litware identifies the following business requirements:

Whenever there are multiple solutions for a requirement, select the solution that provides the best performance, as long as there are no additional costs associated.

Ensure that Azure Cosmos DB costs for IoT-related processing are predictable.

Minimize the number of firewall changes in the retail stores.

Requirements. Product Catalog Requirements

Litware identifies the following requirements for the product catalog:
 Implement a custom conflict resolution policy for the product catalog data.
 Minimize the frequency of errors during updates of the con-product container.
 Once multi-region writes are configured, maximize the performance of App1 queries against the data in account1.
 Trigger the execution of two Azure functions following every update to any document in the con-product container.

NEW QUESTION # 241

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