

2026 Reliable DP-420–100% Free Preparation Store | Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Latest Study Guide



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Microsoft DP-420 Exam Syllabus Topics:

Section	Objectives
Design and implement data distribution	- Partitioning and scaling 1. Logical and physical partitions 2. Throughput (RU/s) planning
	- Replication and consistency 1. Consistency levels 2. Multi-region replication

	- Data pipelines and analytics • 1. Synapse integration • 2. Data movement patterns
Integrate Azure Cosmos DB with Azure services	- Event-driven architectures • 1. Change Feed processing • 2. Integration with Azure Functions - Performance optimization • 1. Query performance tuning • 2. RU consumption optimization
Optimize and maintain Cosmos DB solutions	- Monitoring and troubleshooting • 1. Diagnostics and logging • 2. Alerts and metrics - Design indexing strategies • 1. Indexing policies • 2. Query optimization considerations
Design and implement data models for Azure Cosmos DB	- Model data for NoSQL workloads • 1. Partitioning strategies • 2. Data modeling patterns (embed vs reference)

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q35-Q40):

NEW QUESTION # 35

You have an Azure Cosmos DB container named owners. Each item in owners represents an owner and their pets. The following is a sample of the JSON

```

{
  "id": "1",
  "ownerName": "Fred",
  "pets": [
    {
      "petName": "Fluffy",
      "age": 1
    },
    {
      "petName": "Bouncy",
      "age": 3
    },
    {
      "petName": "Hairy",
      "age": 10
    }
  ]
}

```

You are writing a query that will retrieve the average age of each pet owned by each owner, if the pet is older than two years. How should you complete the query? To answer, drag the appropriate values to the correct targets. Each value 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.

Values

AS

COUNT

IN

JOIN

SUM

VALUE

Answer Area

```

SELECT c.ownerName, AVG(PetAges)
FROM c
JOIN (Select [ ] (p.age) FROM p [ ] c.pets WHERE p.age > 2) PetAges
GROUP BY c.ownerName

```

Answer:

Explanation:

Values

AS

COUNT

IN

JOIN

SUM

VALUE

Answer Area

```

SELECT c.ownerName, AVG(PetAges)
FROM c
JOIN (Select [VALUE] (p.age) FROM p [IN] c.pets WHERE p.age > 2) PetAges
GROUP BY c.ownerName

```

NEW QUESTION # 36

You have an Azure Cosmos DB Core (SQL) API account named account1. In account1, you run the following query in a container that contains 100GB of data.

```

SELECT *
FROM c
WHERE LOWER(c.categoryid) = "hockey"

```

You view the following metrics while performing the query.

Retrieved Document Count	:	45,654
Retrieved Document Size	:	543,765,234 bytes
Output Document Count	:	12
Output Document Size	:	451 bytes
Index Utilization	:	0.00 %
Total Query Execution Time	:	2,400.34 milliseconds
Query Preparation Times		
Query Compilation Time	:	0.09 milliseconds
Logical Plan Build Time	:	0.04 milliseconds
Physical Plan Build Time	:	0.03 milliseconds
Query Optimization Time	:	0.01 milliseconds
Index Lookup Time	:	0.00 milliseconds
Document Load Time	:	3,167.26 milliseconds
Runtime Execution Times		
Query Engine Times	:	299.16 milliseconds
System Function Execution Time	:	79.34 milliseconds
User-defined Function Execution Time	:	0.00 milliseconds
Document Write Time	:	0.01 milliseconds
Client Side Metrics		
Retry Count	:	0
Request Charge	:	3,898.95 RUs

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 query performs a cross-partition query	☐	☐
The query uses an index	☐	☐
Recreating the container with the partition key set to /categoryId will improve the performance of the query	☐	☐

Answer:

Explanation:

Statements	Yes	No
The query performs a cross-partition query	☐	☒
The query uses an index	☐	☒
Recreating the container with the partition key set to /categoryId will improve the performance of the query	☒	☐

NEW QUESTION # 37

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:

A function named Fn1 that reads the change feed of cn1

A function named Fn2 that reads the change feed of cn2
 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	☐	☐
Fn2 can check the _etag of item2 to see whether the item is an update or an insert	☐	☐
Fn3 will receive item3 from the change feed	☐	☐

Answer:

Explanation:

Statements	Yes	No
Fn1 will receive item1 from the change feed	☐	☒
Fn2 can check the _etag of item2 to see whether the item is an update or an insert	☐	☒
Fn3 will receive item3 from the change feed	☒	☐

Explanation:

Statements	Yes	No
Fn1 will receive item1 from the change feed	☐	☒
Fn2 can check the _etag of item2 to see whether the item is an update or an insert	☐	☒
Fn3 will receive item3 from the change feed	☒	☐

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>

NEW QUESTION # 38

You have an Azure Cosmos DB for NoSQL account.

You need to create an Azure Monitor query that lists recent modifications to the regional failover policy. Which Azure Monitor table should you query?

- A. CDBPartitionKeyStatistics
- **B. CDBControlPlaneRequests**
- C. CDBDataPlaneRequests
- D. CDBQueryRunTimeStatistics

Answer: B

NEW QUESTION # 39

You are developing an application that will use an Azure Cosmos DB Core (SQL) API account as a data source. You need to create a report that displays the top five most ordered fruits as shown in the following table.

Name	Type	Orders
apple	fruit	1,000
orange	fruit	600
banana	fruit, exotic	400
plum	fruit	300
mango	fruit, exotic	200

A collection that contains aggregated data already exists. The following is a sample document:

```
{
  "name": "apple",
  "type": ["fruit", "exotic"],
  "orders": 10000
}
```

Which two queries can you use to retrieve data for the report? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A.

```
SELECT TOP 5 i.name, i.types, i.orders
FROM items i
WHERE EXISTS(SELECT VALUE t FROM t IN i.types WHERE t.name = 'fruit')
ORDER BY i.orders, i.types
```

- **B.**

```
SELECT TOP 5 i.name, i.types, i.orders
FROM items i
WHERE ARRAY_CONTAINS(i.types, {name: 'fruit'})
ORDER BY i.orders DESC
```

- C.

```
SELECT TOP 5 i.name, i.types, i.orders
FROM items i
WHERE EXISTS(SELECT VALUE t FROM t IN i.types WHERE t.name = 'fruit')
ORDER BY i.types DESC
```

- **D.**

```
SELECT TOP i.name, i.types, i.orders
FROM items i
WHERE EXISTS (SELECT VALUE t FROM t IN i.types WHERE t.name = 'fruit')
ORDER BY i.orders DESC
```

Answer: B,D

Explanation:

ARRAY_CONTAINS returns a Boolean indicating whether the array contains the specified value.

You can check for a partial or full match of an object by using a boolean expression within the command.

Incorrect Answers:

A: Default sorting ordering is Ascending. Must use Descending order.

C: Order on Orders not on Type.

Reference: <https://docs.microsoft.com/en-us/azure/cosmos-db/sql/sql-query-array-contains>

NEW QUESTION # 40

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