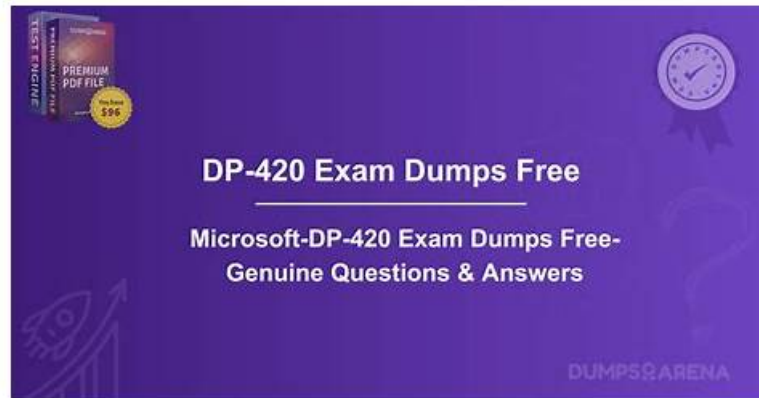


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This Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB (DP-420) software has a simple-to-use interface. By using the DP-420 practice exam software, you can evaluate your mistakes at the end of every take and overcome them. Our software helps you to get familiar with the format of the original DP-420 test. Software lets you customize your Microsoft DP-420 Practice Exam's duration and question numbers as per your practice needs. You just need an active internet connection to confirm the license of your product. All Windows-based computers support this DP-420 practice exam software.

Microsoft DP-420 exam is an excellent opportunity for IT professionals to showcase their skills and knowledge in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. With the increasing demand for cloud-native applications, passing DP-420 Exam will not only validate your expertise but also help you stay competitive in the job market.

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The DP-420 exam covers various topics, including designing and implementing data partitioning strategies, designing and implementing global distribution strategies, designing and implementing server-side programming models, and designing and optimizing queries. DP-420 exam is available in multiple languages, including English, Spanish, French, German, Japanese, Chinese (Simplified and Traditional), and Korean.

A section outlining the topics of a Microsoft DP-420 Certification Exam

DP-420 Dumps cover the following topics of the Microsoft DP-420 Certification Exam:

- Integrate an Azure Cosmos DB solution: 10%
- Optimize an Azure Cosmos DB solution: 20%
- Design and implement data distribution: 10%
- Maintain an Azure Cosmos DB solution: 20%
- Design and execute information models: 40%

Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q80-Q85):

NEW QUESTION # 80

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.

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. ☐
- B. ☒
- C. ☐
- D. ☒

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.

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

NEW QUESTION # 81

You have an Azure subscription. The subscription contains an Azure Cosmos DB for NoSQL account named account1 that hosts a container named Devices. Devices has a partition key named type.

You are evaluating the resource utilization of the query. How will the query be executed?

- A. as an in-partition query
- B. as a parallel cross-partition query
- C. as a cross-partition query

Answer: C

NEW QUESTION # 82

You have a container named container1 in an Azure Cosmos DB for NoSQL account.

You need to provide a user named User1 with the ability to insert items into container1 by using role-based access. The solution must use the principle of least privilege.

Which roles should you assign to User1?

- A. Cosmos DB Operator only
- B. DocumentDB Account Contributor only
- C. DocumentDB Account Contributor and Cosmos DB Built-in Data Contributor
- D. Cosmos DB Built-in Data Contributor only

Answer: D

Explanation:

Explanation

The Cosmos DB Built-in Data Contributor role provides the necessary permissions to insert items into a container in an Azure Cosmos DB for NoSQL account. This role grants the minimum required privileges for the described task, adhering to the principle of least privilege.

NEW QUESTION # 83

You have an Apache Spark pool in Azure Synapse Analytics that runs the following Python code in a notebook.

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:

Explanation:

Explanation

New and updated orders will be added to contoso-erp.orders: Yes

The code performs bulk data ingestion from contoso-app: No

Both contoso-app and contoso-erp have Analytics store enabled: Yes

The code uses the `spark.readStream` method to read data from a container named orders in a database named contoso-app. The data is then filtered by a condition and written to another container named orders in a database named contoso-erp using the `spark.writeStream` method. The write mode is set to "append", which means that new and updated orders will be added to the destination container1.

The code does not perform bulk data ingestion from contoso-app, but rather stream processing. Bulk data ingestion is a process of loading large amounts of data into a data store in batches. Stream processing is a process of continuously processing data as it arrives in real-time2.

Both contoso-app and contoso-erp have Analytics store enabled, because they are both accessed by Spark pools using the `spark.cosmos.oltp` method. This method requires that the containers have Analytics store enabled, which is a feature that allows Spark pools to query data stored in Azure Cosmos DB containers using SQL APIs3.

NEW QUESTION # 84

You have a database in an Azure Cosmos DB Core (SQL) API account.

You plan to create a container that will store employee data for 5,000 small businesses. Each business will have up to 25 employees.

Each employee item will have an emailAddress value.

You need to ensure that the emailAddress value for each employee within the same company is unique.

To what should you set the partition key and the unique key? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Explanation

Box 1: CompanyID

After you create a container with a unique key policy, the creation of a new or an update of an existing item resulting in a duplicate within a logical partition is prevented, as specified by the unique key constraint. The partition key combined with the unique key guarantees the uniqueness of an item within the scope of the container.

For example, consider an Azure Cosmos container with Email address as the unique key constraint and CompanyID as the partition key. When you configure the user's email address with a unique key, each item has a unique email address within a given CompanyID. Two items can't be created with duplicate email addresses and with the same partition key value.

Box 2: emailAddress

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

NEW QUESTION # 85

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