

# 100% Pass-Rate New DP-420 Exam Name & Leader in Qualification Exams & Well-Prepared Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB



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**Exam Code:** DP-420  
**Exam Name:** Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB  
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## What is the Microsoft DP-420 Certification Exam and why it is created?

DP-420 Certification Exam is also known as Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB (beta). DP-420 Certification Exam is authorized by Microsoft and is an IT professional certification exam that is designed to test the knowledge and skills of the candidates for designing and implementing cloud-native applications using Microsoft Azure Cosmos DB database technologies. This certification exam is a part of the Microsoft IT Professional certification program and is the final certification exam for Azure SQL Database Administration. **DP-420 Dumps** is the most reliable and easiest way to pass the DP-420 Exam.

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Microsoft DP-420 (Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB) Exam is a certification exam that validates the skills and knowledge of developers in designing and implementing cloud-native applications using Microsoft Azure Cosmos DB. DP-420 Exam is intended for individuals who have experience in developing and deploying applications on Microsoft Azure and are looking to enhance their skills in designing and implementing cloud-native applications using Cosmos DB.

## Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q124-Q129):

### NEW QUESTION # 124

You have an Azure Cosmos DB container named container1.

You need to insert an item into container1. The solution must ensure that the item is deleted automatically after two hours.

How should you complete the item definition? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation

### NEW QUESTION # 125

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

You are designing an application that will use db1.

In db1, you are creating a new container named coll1 that will store in coll1.

The following is a sample of a document that will be stored in coll1.

The application will have the following characteristics:

- \* New orders will be created frequently by different customers.

- \* Customers will often view their past order history.

You need to select the partition key value for coll1 to support the application. The solution must minimize costs.

To what should you set the partition key?

- A. orderId
- B. customerId
- C. id
- **D. orderDate**

**Answer: D**

Explanation:

Explanation

Based on the characteristics of the application and the provided document structure, the most suitable partition key value for coll1 in the given scenario would be the customerId, Option B.

The application frequently creates new orders by different customers and customers often view their past order history. Using customerId as the partition key would ensure that all orders associated with a particular customer are stored in the same partition.

This enables efficient querying of past order history for a specific customer and reduces cross-partition queries, resulting in lower costs and improved performance.

A partition key is a JSON property (or path) within your documents that is used by Azure Cosmos DB to distribute data among multiple partitions<sup>3</sup>. A partition key should have a high cardinality, which means it should have many distinct values, such as hundreds or thousands<sup>1</sup>. A partition key should also align with the most common query patterns of your application, so that you can efficiently retrieve data by using the partition key value<sup>1</sup>.

Based on these criteria, one possible partition key that you could use for coll1 is B. customerId.

This partition key has the following advantages:

It has a high cardinality, as each customer will have a unique ID<sup>3</sup>.

It aligns with the query patterns of the application, as customers will often view their past order history<sup>3</sup>.

It minimizes costs, as it reduces the number of cross-partition queries and optimizes the storage and throughput utilization<sup>1</sup>.

This partition key also has some limitations, such as:

It may not be optimal for scenarios where orders need to be queried independently from customers or aggregated by date or other criteria<sup>3</sup>.

It may result in hot partitions or throttling if some customers create orders more frequently than others or have more data than others<sup>1</sup>.

It may not support transactions across multiple customers, as transactions are scoped to a single logical partition<sup>2</sup>.

Depending on your specific use case and requirements, you may need to adjust this partition key or choose a different one. For example, you could use a synthetic partition key that concatenates multiple properties of an item<sup>2</sup>, or you could use a partition key with a random or pre-calculated suffix to distribute the workload more evenly<sup>2</sup>.

### NEW QUESTION # 126

You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account named account1 and a Log Analytics

workspace named Workspace1. Workspace 1 stores the logs of account1.

You need to identify which operations used the most request units per second (RU/s) during the last 24 hours.

How should you complete the query? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point

**Answer:**

Explanation:

Explanation:

### NEW QUESTION # 127

You are creating a database in an Azure Cosmos DB Core (SQL) API account. The database will be used by an application that will provide users with the ability to share online posts. Users will also be able to submit comments on other users' posts.

You need to store the data shown in the following table.

The application has the following characteristics:

Users can submit an unlimited number of posts.

The average number of posts submitted by a user will be more than 1,000.

Posts can have an unlimited number of comments from different users.

The average number of comments per post will be 100, but many posts will exceed 1,000 comments.

Users will be limited to having a maximum of 20 interests.

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

Box 1: Yes

Non-relational data increases write costs, but can decrease read costs.

Box 2: Yes

Non-relational data increases write costs, but can decrease read costs.

Box 3: No

Non-relational data increases write costs, but can decrease read costs.

### NEW QUESTION # 128

You have an Azure Cosmos DB container named container1 that has a provisioned throughput and two physical partitions. You monitor the following metrics for container1

\* Normalized RU consumption

\* The percentage of requests that have an HTTP status code of 429

You need to confirm that container1 is configured to maximize resource utilization.

What are the optimal values for each metric? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

Explanation:

### NEW QUESTION # 129

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