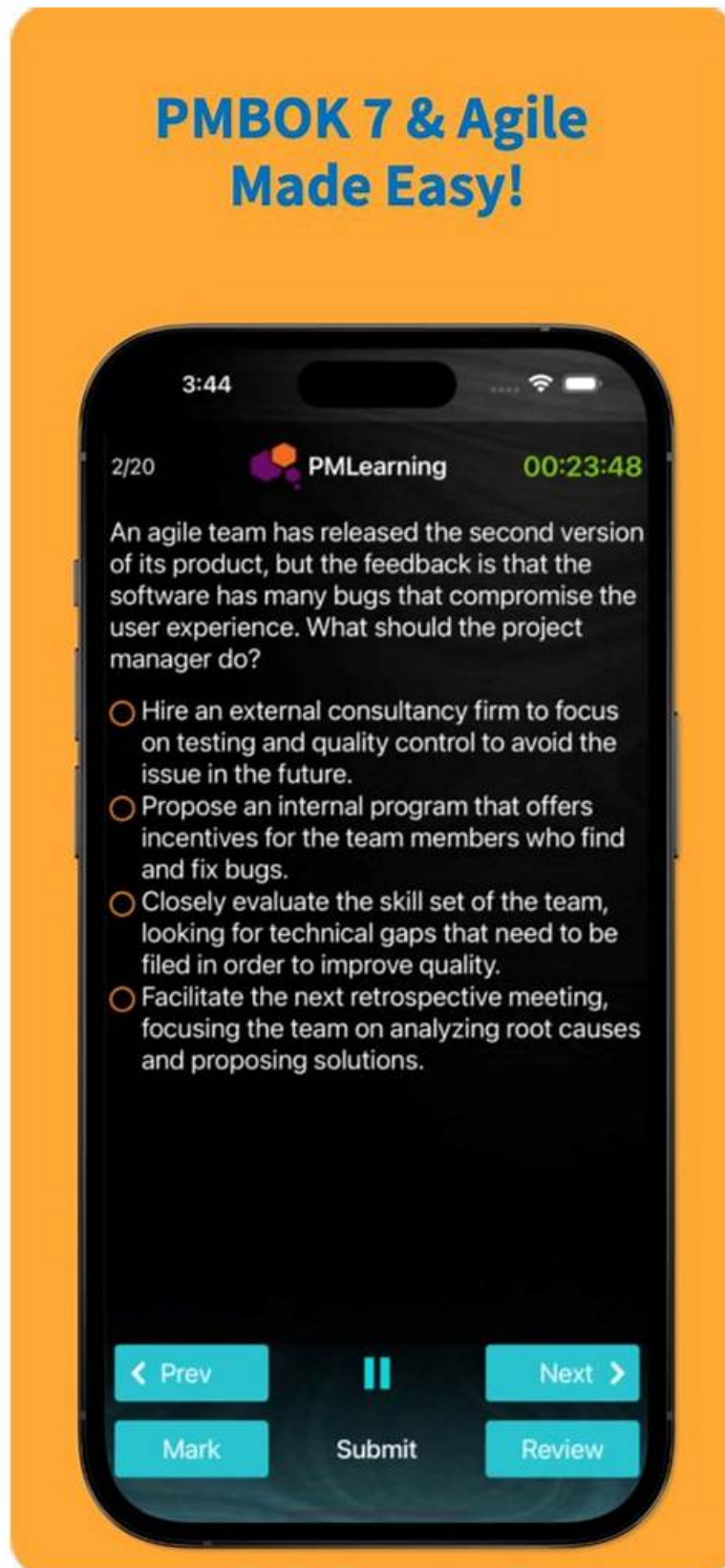


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Microsoft DP-420 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Maintain an Azure Cosmos DB Solution: This section covers monitoring, troubleshooting, and securing Azure Cosmos DB solutions. Developers master backup and restore procedures, implement data movement, and streamline processes using DevOps. These skills ensure operational reliability and safeguard data integrity in production environments.
Topic 2	<ul style="list-style-type: none">• Design and Implement Data Distribution: Microsoft developers delve into designing replication strategies and implementing multi-region writes for Azure Cosmos DB. These skills ensure high availability, fault tolerance, and enhanced global performance for distributed applications, making them vital for enterprise-grade solutions.
Topic 3	<ul style="list-style-type: none">• Design and Implement Data Models: This topic equips Microsoft developers to design and implement non-relational data models for Azure Cosmos DB for NoSQL, emphasizing partitioning strategies, database sizing, and scaling. Developers master connectivity using the Azure Cosmos DB SDK and SQL language for NoSQL, ensuring seamless data access. Additionally, server-side programming with JavaScript empowers robust solutions tailored to specific application needs.
Topic 4	<ul style="list-style-type: none">• Optimize an Azure Cosmos DB Solution: Developers gain expertise in optimizing query performance using Azure Cosmos DB for NoSQL APIs, implementing change feeds, and crafting effective indexing strategies. This topic ensures solutions are performant, scalable, and adaptive to evolving data requirements, enhancing application responsiveness.
Topic 5	<ul style="list-style-type: none">• Integrate an Azure Cosmos DB Solution: This topic focuses on enabling analytical workloads and integrating Azure Cosmos DB across services. Developers learn to leverage cross-service integrations for cohesive solutions, driving advanced analytics and operational efficiency in cloud-native applications.

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Microsoft Designing and Implementing Cloud-Native Applications Using Microsoft Azure Cosmos DB Sample Questions (Q33-Q38):

NEW QUESTION # 33

You have a container named container1 in an Azure Cosmos DB Core (SQL) API account. Upserts of items in container1 occur every three seconds.

You have an Azure Functions app named function1 that is supposed to run whenever items are inserted or replaced in container1. You discover that function1 runs, but not on every upsert.

You need to ensure that function1 processes each upsert within one second of the upsert.

Which property should you change in the Function.json file of function1?

- A. leaseCollectionsThroughput
- B. maxItemsPerInvocation
- C. feedPollDelay
- D. checkpointInterval

Answer: C

Explanation:

With an upsert operation we can either insert or update an existing record at the same time.

FeedPollDelay: The time (in milliseconds) for the delay between polling a partition for new changes on the feed, after all current changes are drained. Default is 5,000 milliseconds, or 5 seconds.

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

NEW QUESTION # 34

You have an Azure subscription that contains an Azure Cosmos DB for NoSQL account. You create a container and assign the following indexing policy.



You run the queries shown in the following table.

Name	Query
Query 1	SELECT name, age, city FROM c ORDER BY c.name, c.age DESC
Query 2	SELECT name, age, city FROM c ORDER BY c.name DESC, c.age
Query 3	SELECT name, age, city FROM WHERE c.age = 18 AND c.city = "Boston" ORDER BY c.name DESC, c.age

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
Query 1 can use the defined indexes.	<input type="radio"/>	<input type="radio"/>
Query 2 can use the defined indexes.	<input type="radio"/>	<input type="radio"/>
Query 3 can use the defined indexes.	<input type="radio"/>	<input type="radio"/>

Answer:

Explanation:

Answer Area		Yes	No
Query 1 can use the defined indexes.	<input type="radio"/>	<input checked="" type="radio"/>	
Query 2 can use the defined indexes.	<input type="radio"/>	<input checked="" type="radio"/>	
Query 3 can use the defined indexes.	<input checked="" type="radio"/>	<input type="radio"/>	

NEW QUESTION # 35

You have an app that stores data in an Azure Cosmos DB Core (SQL) API account. The app performs queries that return large result sets.

You need to return a complete result set to the app by using pagination. Each page of results must return 80 items.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions	Answer Area
Configure MaxItemCount in QueryRequestOptions	
Run the query and provide a continuation token	
Configure MaxBufferedItemCount in QueryRequestOptions	
Append the results to a variable	
Run the query and increment MaxItemCount	

Answer:

Explanation:

Actions	Answer Area
Configure MaxItemCount in QueryRequestOptions	Configure MaxItemCount in QueryRequestOptions
Run the query and provide a continuation token	Run the query and provide a continuation token
Configure MaxBufferedItemCount in QueryRequestOptions	
Append the results to a variable	Append the results to a variable
Run the query and increment MaxItemCount	

Explanation:

Actions	Answer Area
	Configure MaxItemCount in QueryRequestOptions
	Run the query and provide a continuation token
Configure MaxBufferedItemCount in QueryRequestOptions	Append the results to a variable
Run the query and increment MaxItemCount	

Step 1: Configure the MaxItemCount in QueryRequestOptions

You can specify the maximum number of items returned by a query by setting the `MaxItemCount`. The `MaxItemCount` is specified per request and tells the query engine to return that number of items or fewer.

Box 2: Run the query and provide a continuation token

In the .NET SDK and Java SDK you can optionally use continuation tokens as a bookmark for your query's progress. Azure Cosmos DB query executions are stateless at the server side and can be resumed at any time using the continuation token.

If the query returns a continuation token, then there are additional query results.

Step 3: Append the results to a variable

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

NEW QUESTION # 36

You have a database in an Azure Cosmos DB for NoSQL account that is configured for multi-region writes.

You need to use the Azure Cosmos DB SDK to implement the conflict resolution policy for a container. The solution must ensure that any conflict sent to the conflict feed.

Solution: You set `ConflictResolutionMode` to Custom and you use the default settings for the policy.

Does this meet the goal?

- A. Yes
- B. No

Answer: B

Explanation:

Explanation

Setting `ConflictResolutionMode` to Custom and using the default settings for the policy will not ensure that conflicts are sent to the conflict feed. You need to define a custom stored procedure using the

"`conflictingItems`" parameter to handle conflicts properly.

NEW QUESTION # 37

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:

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 # 38

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