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**QUESTION 1****HOTSPOT**

A company develops a series of mobile games. All games use a single leaderboard service. You have the following requirements:

Code should be scalable and allow for growth.

Each record must consist of a playerId, gameId, score, and time played.

When users reach a new high score, the system will save the new score using the SaveScore function below.

Each game is assigned an Id based on the series title.

You have the following code. (Line numbers are included for reference only.)

```
01 public void SaveScore(string gameId, string playerId, int score, long timePlayed)
02 {
03     CloudStorageAccount storageAccount = CloudStorageAccount.Parse(connectionString);
04     CloudTableClient tableClient = storageAccount.CreateCloudTableClient();
05     CloudTable table = tableClient.GetTableReference("scoreTable");
06     table.CreateIfNotExists();
09     table.Execute(insertOperation);
10 }
11 public class PlayerScore : TableEntity
12 {
13     public PlayerScore(string gameId, string playerId, int score, long timePlayed)
14     {
15         this.PartitionKey = gameId;
16         this.RowKey = playerId;
17         Score = score;
18         TimePlayed = timePlayed;
19     }
20     public int Score { get; set; }
21     public long TimePlayed { get; set; }
22 }
```

You store customer information in an Azure Cosmos database. The following data already exists in the database:



PartitionKey	RowKey	Email
Harp	Walter	wharp@contoso.com
Smith	Steve	ssmith@contoso.com
Smith	Jeff	jsmith@contoso.com

```

01 CloudTableClient tableClient = account.CreateCloudTableClient();
02 CloudTable table = tableClient.GetTableReference("people");
03 TableQuery<CustomerEntity> query = new TableQuery<CustomerEntity>();
04 .Where(TableQuery.CombineFilters(
05     TableQuery.GenerateFilterCondition(PartitionKey, QueryComparisons.Equal, "Smith"),
06     TableOperators.And, TableQuery.GenerateFilterCondition(Email, QueryComparisons.Equal, "ssmith@contoso.com")
07 ));
08 await table.ExecuteQuerySegmentedAsync<CustomerEntity>(query, null);

```

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

Hot Area:

Answer Area



The code will work with Cosmos DB.

Yes	No
<input type="radio"/>	<input type="radio"/>

The save score function will update and replace a record if one already exists with the same playerId and gameId.

<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------

The data for the game will be automatically partitioned.

<input type="radio"/>	<input type="radio"/>
-----------------------	-----------------------

Correct Answer:

Answer Area



The code will work with Cosmos DB.

Yes	No
<input type="radio"/>	<input checked="" type="radio"/>

The save score function will update and replace a record if one already exists with the same playerId and gameId.

<input checked="" type="radio"/>	<input type="radio"/>
----------------------------------	-----------------------

The data for the game will be automatically partitioned.

<input checked="" type="radio"/>	<input type="radio"/>
----------------------------------	-----------------------

QUESTION 2

HOTSPOT

You need to implement the Log policy.

How should you complete the EnsureLogging method in EventGridController.cs? To answer, select the appropriate options in the answer area.



NOTE: Each correct selection is worth one point.

Hot Area:

```
var client = new WebsiteManagementClient(. . .);
var id = ParseResourceId(resource);
var appSettings = new StringDictionary(name: "properties",
    properties: new Dictionary<string, string> {
        {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStorageAccounts["
            logs
            logdrop
        "]}

        {"DIAGNOSTICS_AZUREBLOBRETENTIONDAYS",
            15
            30
        })
    });
client.WebApps.
    UploadLoggingSettings
    UpdateApplicationSettings
    id.resourceGroup,
    id.name, appSettings);
```

Correct Answer:

```
var client = new WebsiteManagementClient(. . .);
var id = ParseResourceId(resource);
var appSettings = new StringDictionary(name: "properties",
    properties: new Dictionary<string, string> {
        {"DIAGNOSTICS_AZUREBLOBCONTAINERSASURL", BlobStorageAccounts["
            logs
            logdrop
        "]}

        {"DIAGNOSTICS_AZUREBLOBRETENTIONDAYS",
            15
            30
        })
    });
client.WebApps.
    UploadLoggingSettings
    UpdateApplicationSettings
    id.resourceGroup,
    id.name, appSettings);
```

Box 1: logdrop

All log files should be saved to a container named logdrop.



Box 2: 15

Logs must remain in the container for 15 days.

Box 3: UpdateApplicationSettings

All Azure App Service Web Apps must write logs to Azure Blob storage.

References:

<https://blog.hompus.nl/2017/05/29/adding-application-logging-blob-to-a-azure-web-app-service-using-powershell>

QUESTION 3

HOTSPOT

You have an Azure Batch project that processes and converts files and stores the files in Azure storage. You are developing a function to start the batch job.

You add the following parameters to the function.

Parameter name	Description
<code>fileTasks</code>	a list of tasks to be run
<code>jobId</code>	the identifier that must be assigned to the job
<code>outputContainerSasUrl</code>	a storage SAS URL to store successfully converted files
<code>failedContainerSasUrl</code>	a storage SAS URL to store copies of files that failed to convert.

You must ensure that converted files are placed in the container referenced by the `outputContainerSasUrl` parameter. Files which fail to convert are placed in the container referenced by the `failedContainerSasUrl` parameter.

You need to ensure the files are correctly processed.

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

NOTE: Each correct selection is worth one point.

Hot Area:



Answer Area

```

public list<CloudTasks> StartTasks(List<FileTask> fileTasks, string jobId,
string outputContainerSasUrl, string failedContainerSasUrl)
{
    BatchSharedKeyCredentials sharedKeyCredentials =
        new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName,
batchAccountKey);
    List<CloudTask> tasks = new List<CloudTask>();
    using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
    {
        CloudJob = batchClient.JobOperations. 

|           |
|-----------|
| GetJob    |
| GetTask   |
| EnableJob |
| CreateJob |

 ();

        job.Id = jobId,
        job.PoolInformation = new PoolInformation { PoolId = poolId };
        job.Commit();
        fileTasks.ForEach((fileTask) =>
        {
            string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
            CloudTask task = new CloudTask (taskId, fileTask.Command);
            List<OutputFile> outputFileList = new List<OutputFile>();
            OutputFileBlobContainerDestination outputContainer =
                new OutputFileBlobContainerDestination(outputContainerSasUrl);
            OutputFileBlobContainerDestination failedContainer =
                new OutputFileBlobContainerDestination (failedContainerSasUrl);
            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination(outputContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition. 

|                |  |
|----------------|--|
| TaskSuccess    |  |
| TaskFailure    |  |
| TaskCompletion |  |

 ));

            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination (failedContainer),
                new OutputFileUploadOptions (OutputFileUploadCondition, 

|                |  |
|----------------|--|
| TaskSuccess    |  |
| TaskFailure    |  |
| TaskCompletion |  |

 ));

            task. 

|               |  |
|---------------|--|
| OutputFiles   |  |
| FilesToStage  |  |
| ResourceFiles |  |
| StageFiles    |  |

 =outputFileList;

            task.Add(task);
        });
    }
    return tasks,
}

```

Correct Answer:



Answer Area

```

public list<CloudTasks> StartTasks(List<FileTask> fileTasks, string jobId,
string outputContainerSasUrl, string failedContainerSasUrl)
{
    BatchSharedKeyCredentials sharedKeyCredentials =
        new BatchSharedKeyCredentials(batchAccountUrl, batchAccountName,
batchAccountKey);
    List<CloudTask> tasks = new List<CloudTask>();
    using (BatchClient batchClient = BatchClient.Open(sharedKeyCredentials))
    {
        CloudJob = batchClient.JobOperations.


|           |
|-----------|
| GetJob    |
| GetTask   |
| EnableJob |
| CreateJob |


        ();

        job.Id = jobId,
        job.PoolInformation = new PoolInformation { PoolId = poolId };
        job.Commit();
        fileTasks.ForEach((fileTask) =>
        {
            string taskId = $"Task{DateTime.Now.ToFileTimeUtc().ToString()}";
            CloudTask task = new CloudTask (taskId, fileTask.Command);
            List<OutputFile> outputFileList = new List<OutputFile>();
            OutputFileBlobContainerDestination outputContainer =
                new OutputFileBlobContainerDestination(outputContainerSasUrl);
            OutputFileBlobContainerDestination failedContainer =
                new OutputFileBlobContainerDestination (failedContainerSasUrl);
            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination(outputContainer),
                new OutputFileUploadOptions(OutputFileUploadCondition.


|                |  |
|----------------|--|
| TaskSuccess    |  |
| TaskFailure    |  |
| TaskCompletion |  |


                ));

            outputFileList.Add(new OutputFile (fileTask.Output,
                new OutputFileDestination (failedContainer),
                new OutputFileUploadOptions (OutputFileUploadCondition,


|                |  |
|----------------|--|
| TaskSuccess    |  |
| TaskFailure    |  |
| TaskCompletion |  |


                ));

            task.


|               |
|---------------|
| OutputFiles   |
| FilesToStage  |
| ResourceFiles |
| StageFiles    |


            =outputFileList;

            task.Add(task);
        });
    }
    return tasks,
}

```

Box 1: CreateJob

Box 2: TaskSuccess

TaskSuccess: Upload the file(s) only after the task process exits with an exit code of 0.

Incorrect: TaskCompletion: Upload the file(s) after the task process exits, no matter what the exit code was.

Box 3: TaskFailure



TaskFailure:Upload the file(s) only after the task process exits with a nonzero exit code.

Box 4: OutputFiles

To specify output files for a task, create a collection of OutputFile objects and assign it to the CloudTask.OutputFiles property when you create the task.

References:

<https://docs.microsoft.com/en-us/dotnet/api/microsoft.azure.batch.protocol.models.outputfileuploadcondition>

<https://docs.microsoft.com/en-us/azure/batch/batch-task-output-files>

QUESTION 4

You develop an Azure web app. You monitor performance of the web app by using Application Insights.

You need to ensure the cost for Application Insights does not exceed a preset budget.

What should you do?

- A. Implement ingestions sampling using the Application Insights SDK.
- B. Set a daily cap for the Application Insights instance.
- C. Implement ingestion sampling using the Azure portal.
- D. Implement adaptive sampling using the Azure portal.
- E. Implement adaptive sampling using the Application Insights SDK.

Correct Answer: E

Sampling is an effective way to reduce charges and stay within your monthly quota.

You can set sampling manually, either in the portal on the Usage and estimated costs page; or in the ASP.NET SDK in the .config file; or in the Java SDK in the ApplicationInsights.xml file, to also reduce the network traffic.

Adaptive sampling is the default for the ASP.NET SDK. Adaptive sampling automatically adjusts to the volume of telemetry that your app sends. It operates automatically in the SDK in your web app so that telemetry traffic on the network is

reduced.

Incorrect Answers:

B: You can use the daily volume cap to limit the data collected.

To change the daily cap, in the Configure section of your Application Insights resource, in the Usage and estimated costs pane, select Daily Cap.

References:

<https://docs.microsoft.com/en-us/azure/azure-monitor/app/sampling>



QUESTION 5

HOTSPOT

A company runs an international travel and bookings management service. The company plans to begin offering restaurant bookings.

You must develop a solution that uses Azure Search and meets the following requirements:

Users must be able to search for restaurants by name, description, location, and cuisine.

Users must be able to narrow the results further by location, cuisine, rating, and family-friendliness.

All words in descriptions must be included in searches.

You need to add annotations to the restaurant class.

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

NOTE: Each correct selection is worth one point.

Hot Area:



```
[SerializePropertyNameAsCamelCase]
public class Restaurant
{
    [Key, IsFilterable]
    public int RestaurantId { get; set; }
    [IsSearchable, IsFilterable, IsSortable]
    public string Name { get; set; }

    [IsSearchable.IsFilterable.IsSortable, IsFacetable]
    [IsFilterable.IsFacetable, Required]
    [IsSearchable]
    [IsSearchable, Required]
    public string location { get; set; }
    public string Phone { get; set; }

    [Required]
    [IsSearchable]
    [IsFilterable, IsFacetable, Required]
    [IsFilterable, IsFacetable, IsSortable]
    public string Description { get; set; }

    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable, Required]
    public double Rating { get; set; }

    [IsSearchable, IsFilterable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, Key, Required]
    public List<string> Cuisines { get; set; }

    [IsFilterable, IsSortable, Key, Required]
    [IsSearchable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key, IsSearchable]
    [IsFilterable, IsFacetable]
    public bool FamilyFriendly { get; set; }
}
```



Correct Answer:



```
[SerializePropertyNameAsCamelCase]
public class Restaurant
{
    [Key, IsFilterable]
    public int RestaurantId { get; set; }
    [IsSearchable, IsFilterable, IsSortable]
    public string Name { get; set; }

    [IsSearchable.IsFilterable.IsSortable, IsFacetable]
    [IsFilterable.IsFacetable, Required]
    [IsSearchable]
    [IsSearchable, Required]
    public string location { get; set; }
    public string Phone { get; set; }

    [Required]
    [IsSearchable]
    [IsFilterable, IsFacetable, Required]
    [IsFilterable, IsFacetable, IsSortable]
    public string Description { get; set; }

    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable, Required]
    public double Rating { get; set; }

    [IsSearchable, IsFilterable, IsFacetable]
    [IsFilterable, IsSortable, Key]
    [IsFilterable, IsSortable, IsSearchable]
    [IsFilterable, IsSortable, Key, Required]
    public List<string> Cuisines { get; set; }

    [IsFilterable, IsSortable, Key, Required]
    [IsSearchable, IsSortable, IsFacetable]
    [IsFilterable, IsSortable, Key, IsSearchable]
    [IsFilterable, IsFacetable]
    public bool FamilyFriendly { get; set; }
}
```



Box 1: [IsSearchable.IsFilterable.IsSortable,IsFacetable]

Location

Users must be able to search for restaurants by name, description, location, and cuisine.

Users must be able to narrow the results further by location, cuisine, rating, and family-friendliness.

Box 2: [IsSearchable.IsFilterable.IsSortable,Required]

Description

Users must be able to search for restaurants by name, description, location, and cuisine.

All words in descriptions must be included in searches.

Box 3: [IsFilterable,IsSortable,IsFaceTable]

Rating

Users must be able to narrow the results further by location, cuisine, rating, and family-friendliness.

Box 4: [IsSearchable.IsFilterable,IsFacetable]

Cuisines

Users must be able to search for restaurants by name, description, location, and cuisine.

Users must be able to narrow the results further by location, cuisine, rating, and family-friendliness.

Box 5: [IsFilterable,IsFacetable]

FamilyFriendly

Users must be able to narrow the results further by location, cuisine, rating, and family-friendliness.

References:

<https://www.henkboelman.com/azure-search-the-basics/>

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