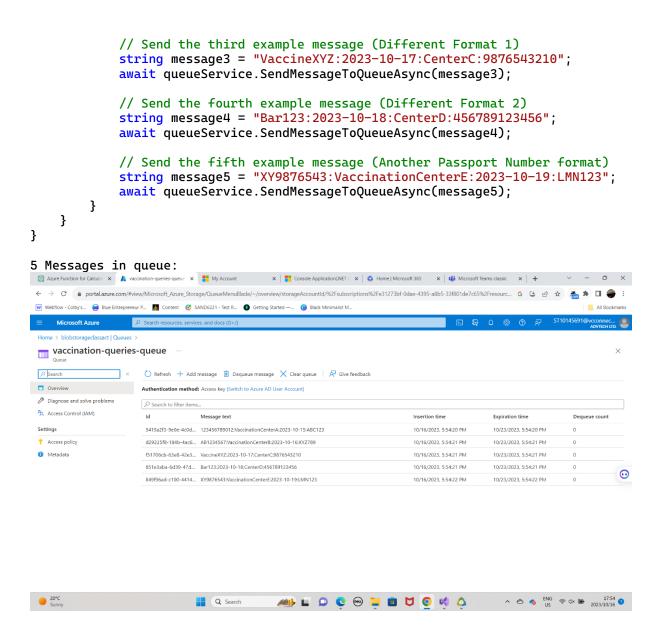
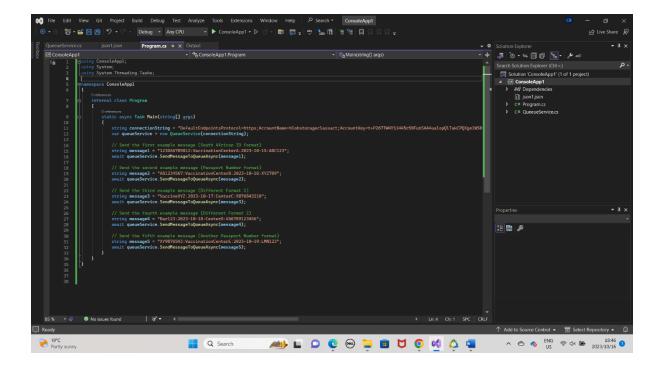
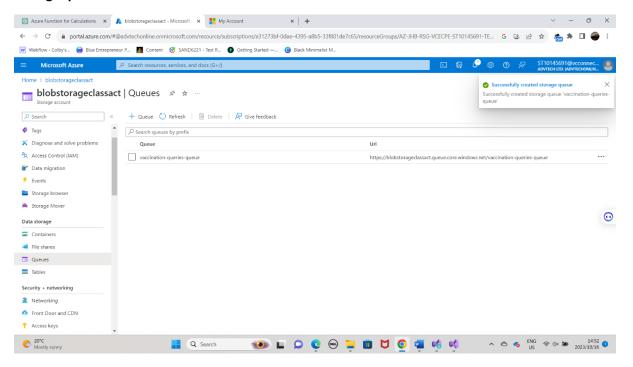
```
Part A:
using Azure.Storage.Queues;
using ConsoleApp1;
using System;
using System.Numerics;
using System.Threading.Tasks;
namespace ConsoleApp1
    internal class QueueService
        private readonly QueueClient _queueClient;
        public QueueService(string connectionString)
            _queueClient = new QueueClient(connectionString, "vaccination-
queries-queue");
        public async Task SendMessageToQueueAsync(string message)
            await _queueClient.SendMessageAsync(message);
            Console.WriteLine("Message sent to the queue: " + message);
        }
    }
}
  "ConnectionStrings": {
    "AzureStorage":
"DefaultEndpointsProtocol=https; AccountName=blobstorageclassact; AccountKey=t+P267
TW4YSi445r50FubSAA4ualopQlTakCPQXge1WS0/qTyKNj7n/Wmqn8EQwNbdZVaH0APMo++AStnYr+Dw=
=; EndpointSuffix=core.windows.net"
  }
using ConsoleApp1;
using System;
using System.Threading.Tasks;
namespace ConsoleApp1
{
    internal class Program
        static async Task Main(string[] args)
            string connectionString =
"DefaultEndpointsProtocol=https; AccountName=blobstorageclassact; AccountKey=t+P267
TW4YSi445r50FubSAA4ualopOlTakCPOXge1WS0/gTvKNj7n/Wmgn8EOwNbdZVaH0APMo++AStnYr+Dw=
=;EndpointSuffix=core.windows.net"; // Replace with your actual connection string
            var queueService = new QueueService(connectionString);
            // Send the first example message (South African ID format)
            string message1 = "123456789012:VaccinationCenterA:2023-10-
15:ABC123";
            await queueService.SendMessageToQueueAsync(message1);
            // Send the second example message (Passport Number format)
            string message2 = "AB1234567:VaccinationCenterB:2023-10-16:XYZ789";
            await queueService.SendMessageToQueueAsync(message2);
```

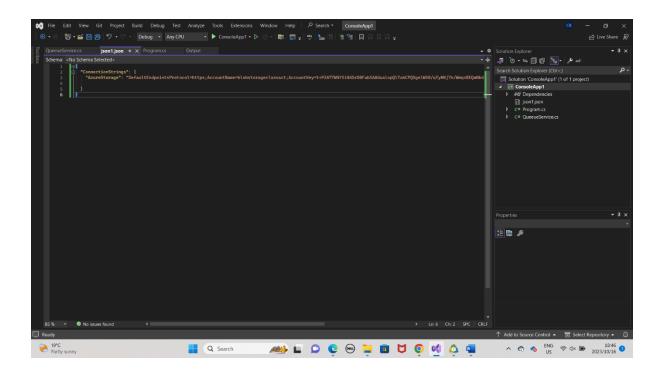


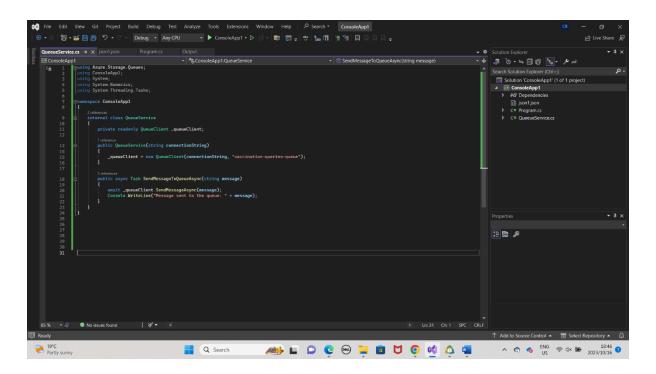
https://portal.azure.com/#@advtechonline.onmicrosoft.com/resource/subscriptions/e31273bf-0dae-4395-a8b5-33f801de7c65/resourceGroups/AZ-JHB-RSG-VCECPE-ST10145691-TER/providers/Microsoft.Storage/storageAccounts/blobstorageclassact/overview



Storage queue created:







Part B:

Changing from http trigger to queee trigger: function.json file

```
{
     "bindings": [
         {
               "name": "myQueueItem",
              "type": "queueTrigger",
              "direction": "in",
               "queueName": " vaccination-queries-queue", // Replace with the name of your Azure
Storage Queue
               "connection": "AzureWebJobsStorage"
         }
    ]
🖸 Azure Function for Calculai X 🛕 Errors - Microsoft Azure X 🚦 My Account X 🚦 Console Application (.NET C X | 💲 Home | Microsoft 365 X | 🐗 General (VCNIMB_BCAD2_C X | + V - D X
    ← → C 🛍 portal.azure.com/#create/Microsoft.SQLDatabase
    W Webflow - Colby's... ■ Blue Entrepreneur P...   Content  

SAND6221 - Test R... ■ Getting Started —... ● Black Minimalist M...

        ≡ Microsoft Azure

        ╭ Search resources, services, and docs (G+/)

      Home > Create a resource > Marketplace > SQL Database >
                                                                                                                                                                                                                                                                      Errors
     Create SQL Database ....
                                                                                                                                                                                                                                                                        Summary Raw Error
         igotimes Validation failed. Click here to view details. 
ightarrow
                                                                                                                                                                                                                                                                             ERROR DETAILS
                                                                                                                                                                                                                                                                                                                                                                                                           D
                                                                                                                                                                                                                                                                                   Resource 'VaccinationDatabasePart2' was disallowed by policy. (Code: RequestDisallowedByPolicy)
        Transparent data encryption (Server level) Service-managed key selected
                                                                                                                                                                                                                                                                                     Policy: Auzre SQL Tier
       Database level customer-managed key
Database level user assigned managed
identity

Not configured
Not configured
                                                                                                                                                                                                                                                                                      Policy: Azure SQL Server SKU test
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        Advanced data security
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        Always encrypted with secure enclaves Not configured
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        Digest Storage
                                                                       Disabled
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       Additional settings
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New Support Request ☑
       Use existing data
                                                                       SQL_Latin1_General_CP1_CI_AS
                                                                       System default (5pm to 8am)
      Create < Previous Download a template for automation
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```

```
Function code:
             using System;
             using Microsoft.Azure.WebJobs;
             using Microsoft.Extensions.Logging;
             public static void ProcessQueueMessage(
                [QueueTrigger("vaccination-queries-queue")] string myQueueItem, // Match the
parameter name with the one in function.json
                ILogger log)
            {
                log.LogInformation($"C# Queue trigger function processed: {myQueueItem}");
                // Process the message here
                // Example: Parse the message and insert it into an Azure SQL Database
            }
             🔞 Azure Function for Calculai: x 🙏 HttpTrigger1 - Microsoft A: x 🕌 My Account x | ដ Console Application(NET C: x | 😘 Home | Microsoft 365 x | 🐞 General (VCNM8,BCAD2,C: x | +
               🗧 🗦 C 👔 portal.azure.com/#view/WebsitesExtension/FunctionMenuBlade/~/code/resourceld/%2Fsubscriptions%2Fe31273bf-0dae~4395-a8b5-33f801de7c65%2FresourceGroups%2FAZ... 🗴 😉 🖄 🛣 🐌 🔲 🌑 :
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Blue Entrepreneur P... 

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Getting Started —... 

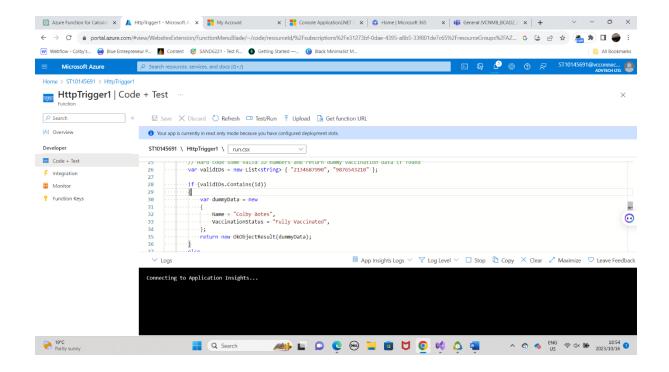
Black Minimalist M...
               Home > ST10145691 > HttpTrigger1
               HttpTrigger1 | Code + Test
                            « □ Save X Discard C Refresh □ Test/Run 7 Upload □ Get function URL

   Your app is currently in read only mode because you have configured deployment slo

                                            ST10145691 \ HttpTrigger1 \ run.csx
                                           using Microsoft.AspNetCore.NVc;
using Microsoft.Azure.WebJobs;
using Microsoft.Azure.WebJobs.Extensions.Http;
using Microsoft.Azure.WebJobs.Extensions.Http;
using Microsoft.Extensions.logging;
using System.Collections.Generic;
using System.Collections.Generic;
             Code + Test
               Monitor
               † Function Keys
                                                                                                                                                                               0
                                               public - static - class - VaccinationStatusFunction

      ■ App Insights Logs ∨
      ∇ Log Level ∨
      □ Stop
      ♠ Copy
      X Clear
      ✓ Maximize
      ♥ Leave Feedback

                                            Connecting to Application Insights...
               Partly sunny
```



URL: https://st10145691.azurewebsites.net