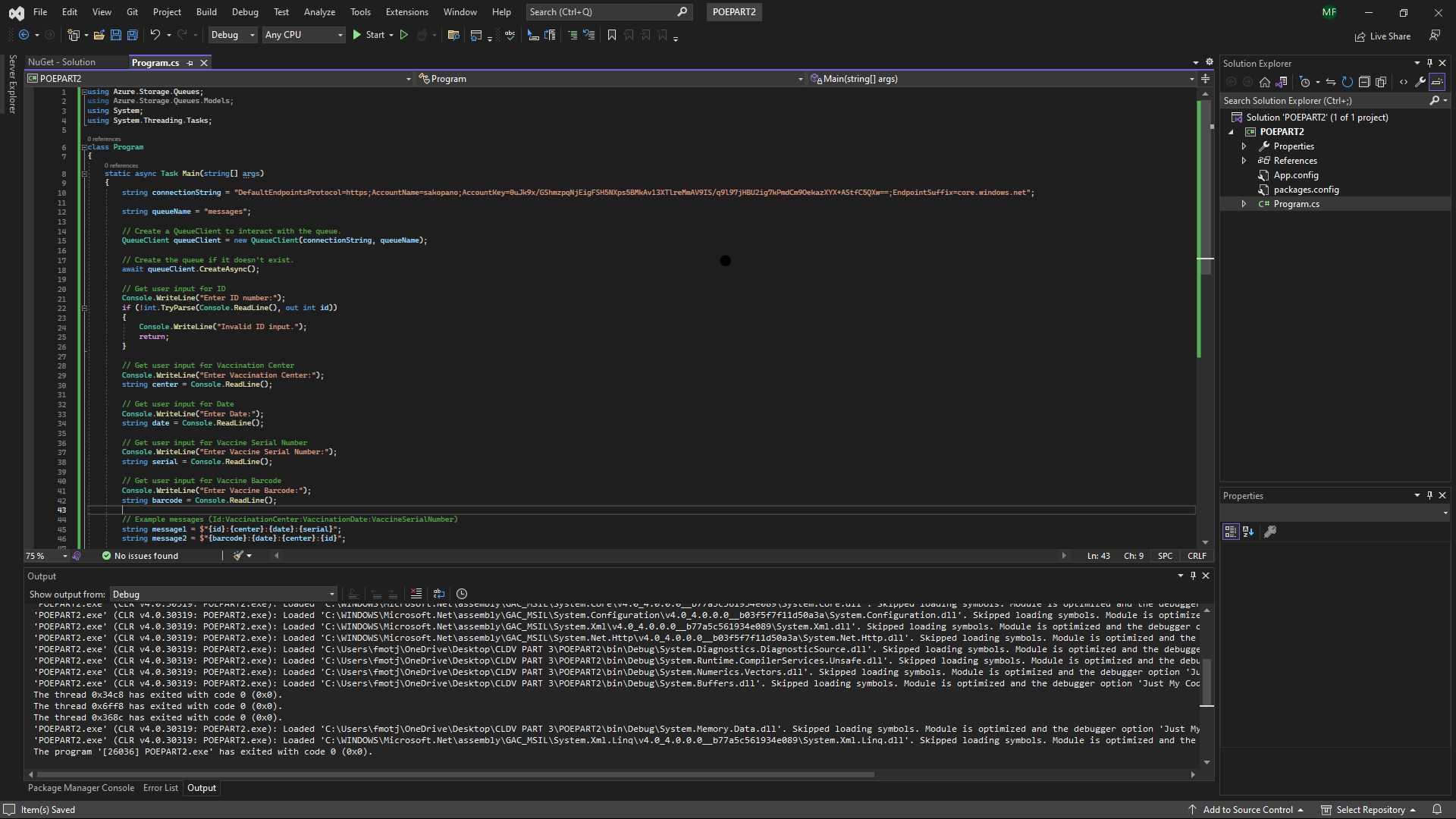
Motjoka Fanana ST10089515 CLDV6212 POE PART 2

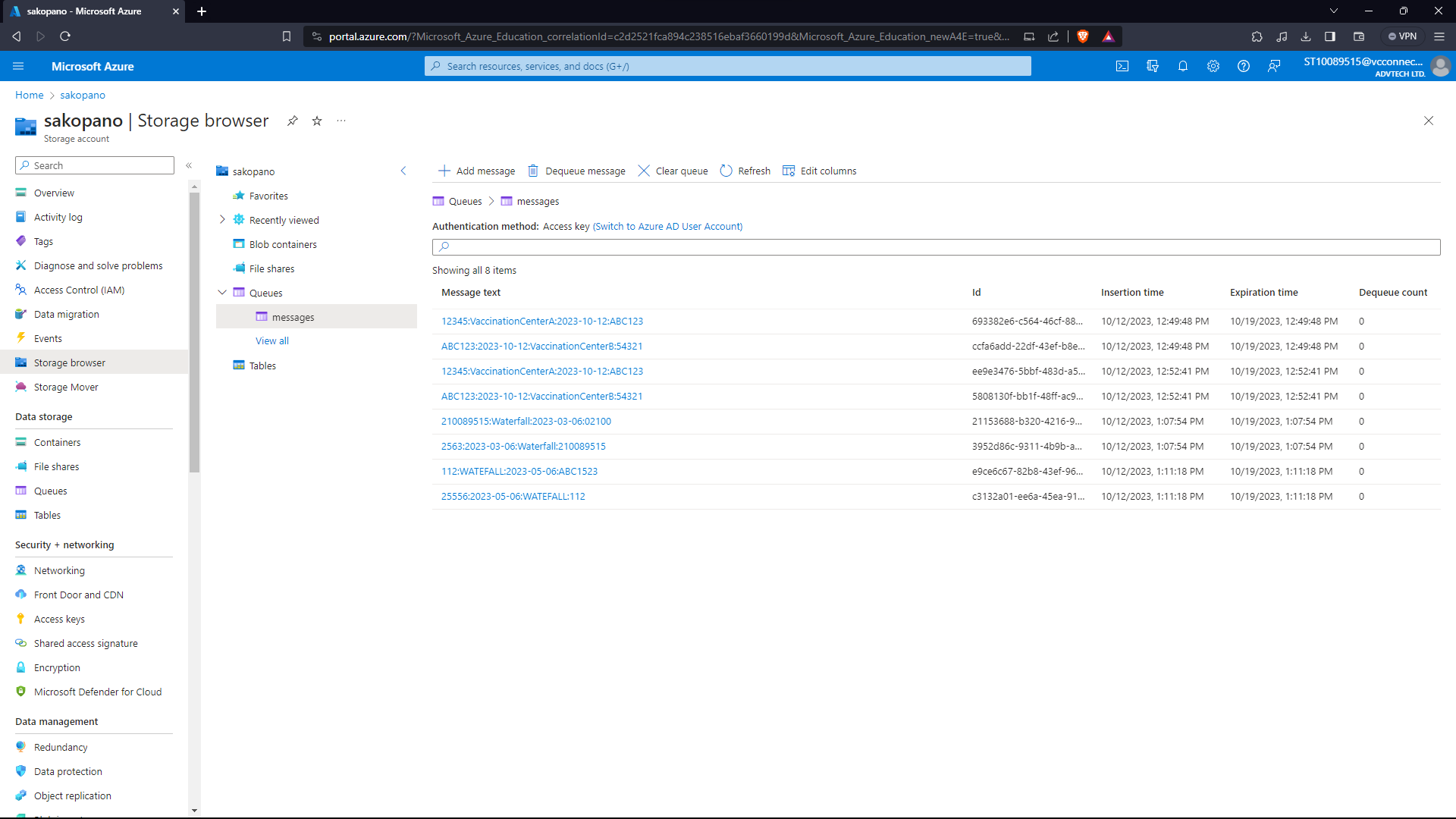
QUESTION A

FUNCTION CODE:



A screenshot of a computer program

Description automatically generated



QUESTION B

FUNCTION CODE: using System;

using Microsoft.Azure.WebJobs;

using Microsoft.Azure.WebJobs.Host;

using Microsoft.Data.SqlClient;

using Microsoft.Extensions.Logging;

namespace QuestionB\_MessageQueue

{

public class Function1

{

[FunctionName("Function1")]

public void Run([QueueTrigger("message-queue", Connection = "MyQueueCon")] string myQueueItem, ILogger log)

{

string Connstri = "Server=tcp:queuestorageserver1.database.windows.net,1433;Initial Catalog=dbQueues;Persist Security Info=False;User ID=kops;Password=Dbzgt1103;MultipleActiveResultSets=False;Encrypt=True;TrustServerCertificate=False;Connection Timeout=30;";

try

{

string[] attributes = myQueueItem.Split(':');

string id = attributes[0];

string center = attributes[1]; // Assuming center is the second attribute

string vaccinationDate = attributes[2]; // Assuming vaccination date is the third attribute

string serialNumber = attributes[3]; // Assuming serial number is the fourth attribute

// PROCESS THE MESSAGE

log.LogInformation($"Processing queue ID: {myQueueItem}");

using (SqlConnection connection = new SqlConnection(Connstri))

{

connection.Open();

using (SqlCommand command = connection.CreateCommand())

{

command.CommandText = "INSERT INTO MessagesC (Id, CENTER, VACCINATION\_DATE, Serial\_Number) VALUES (@Id, @Center, @VaccinationDate, @SerialNumber)";

command.Parameters.AddWithValue("@Id", id);

command.Parameters.AddWithValue("@Center", center);

command.Parameters.AddWithValue("@VaccinationDate", vaccinationDate);

command.Parameters.AddWithValue("@SerialNumber", serialNumber);

command.ExecuteNonQuery();

}

}

log.LogInformation($"Queue Message Added To the 'MessagesC' Table successfully, Id = {id}");

}

catch (Exception ex)

{

log.LogError($"Error processing queue message: {ex.Message}");

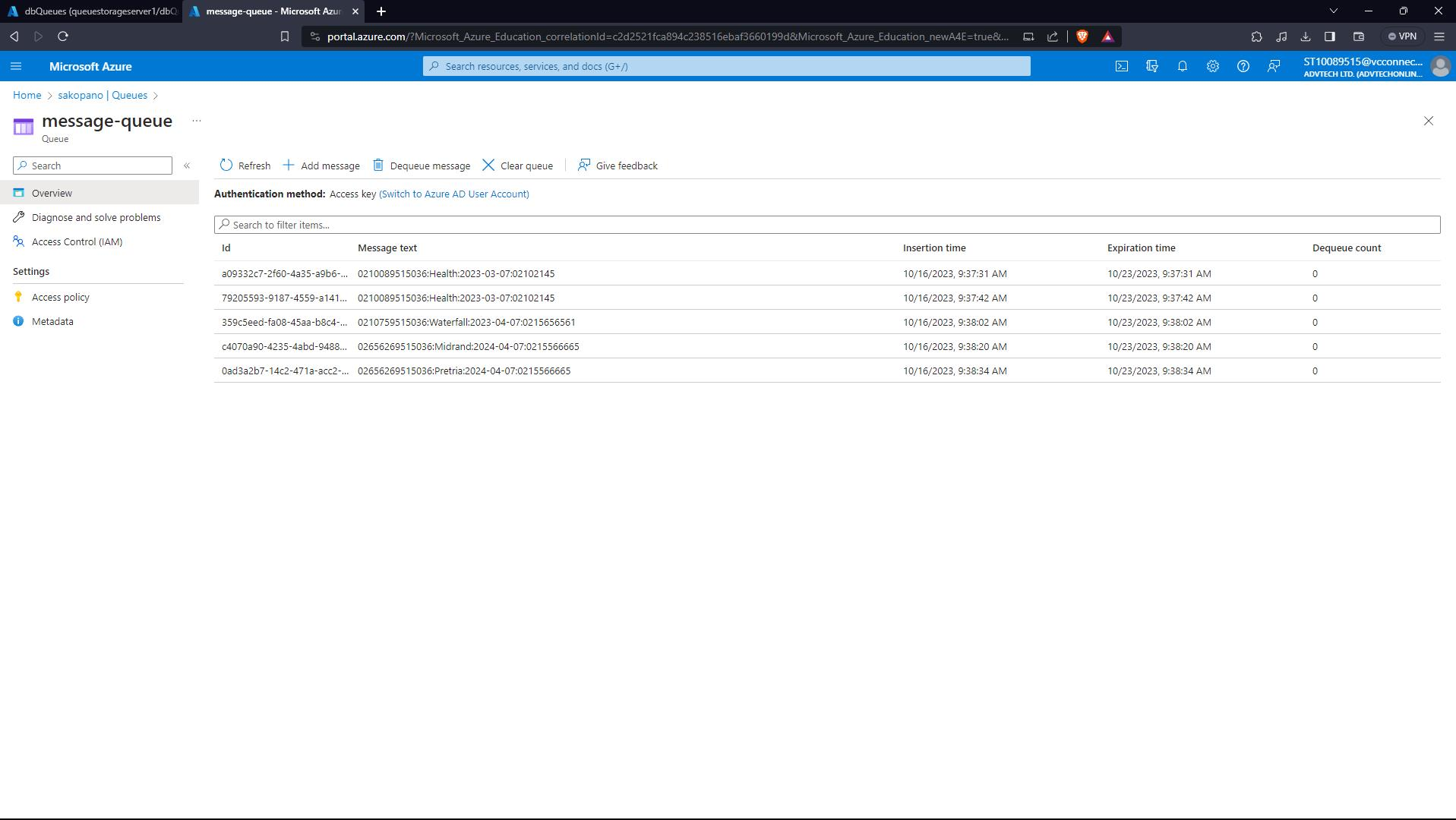
}

}

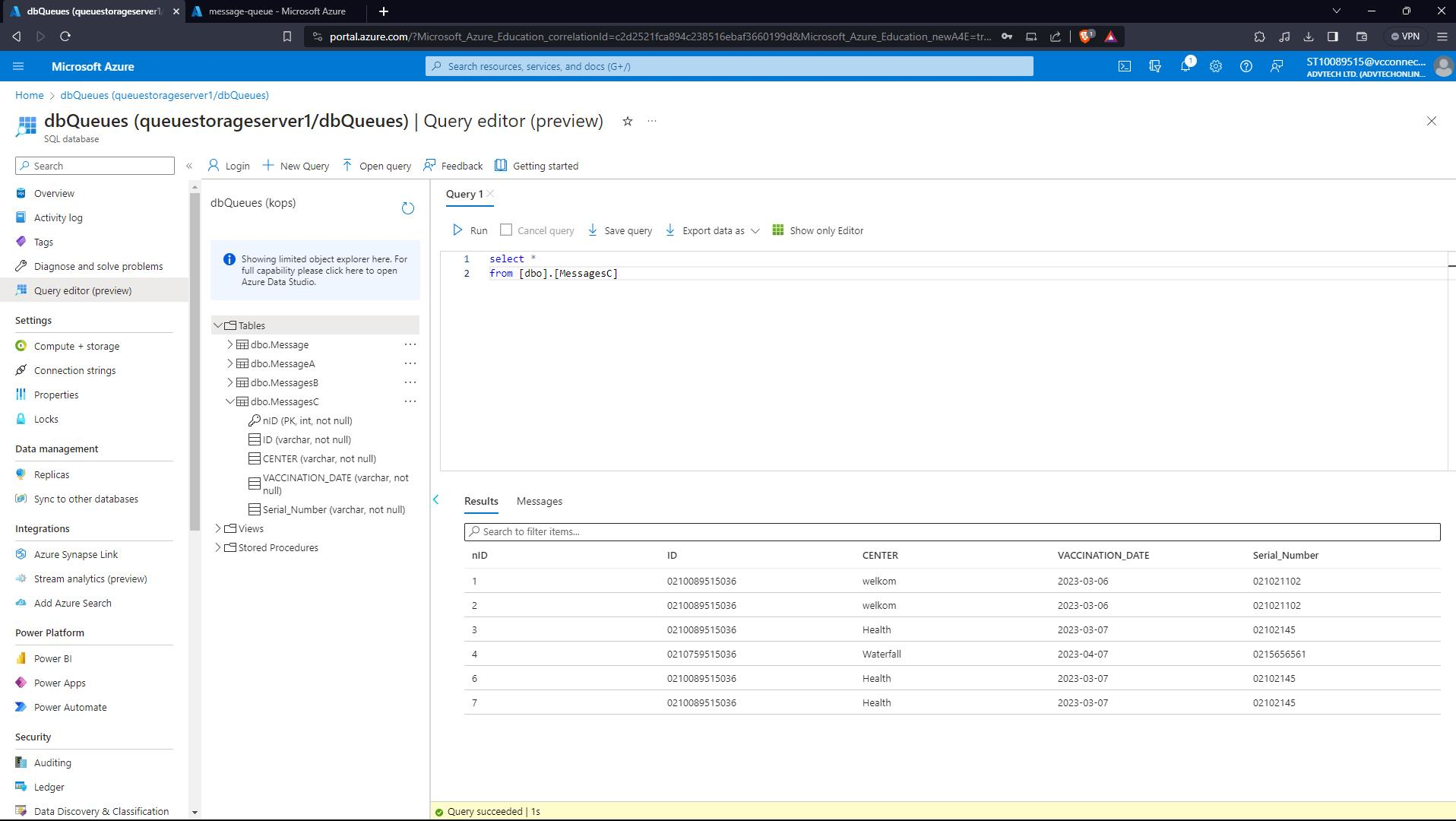
}

}

FIVE MESSAGE QUEUES IN AZURE:



FIVE MESSAGE QUEUES IN AZURE SQL DATABASE:



Reference:

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YOUTUBE LINK : <https://youtu.be/G5-pS-lidvs>

LINKS: <https://portal.azure.com/#@advtechonline.onmicrosoft.com/resource/subscriptions/d1788afb-2254-4f5f-8826-94750f6da544/resourceGroups/AZ-JHB-RSG-VCGPMD-ST10089515-TER/providers/Microsoft.Storage/storageAccounts/sakopano/storagebrowser>

<https://portal.azure.com/?Microsoft_Azure_Education_correlationId=c2d2521fca894c238516ebaf3660199d&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=43ef35bb-adbb-42a3-8f83-be02d75aab29#@advtechonline.onmicrosoft.com/resource/subscriptions/d1788afb-2254-4f5f-8826-94750f6da544/resourceGroups/AZ-JHB-RSG-VCGPMD-ST10089515-TER/providers/Microsoft.Sql/servers/queuestorageserver1/databases/dbQueues/queryEditor>

<https://portal.azure.com/?Microsoft_Azure_Education_correlationId=c2d2521fca894c238516ebaf3660199d&Microsoft_Azure_Education_newA4E=true&Microsoft_Azure_Education_asoSubGuid=43ef35bb-adbb-42a3-8f83-be02d75aab29#home>