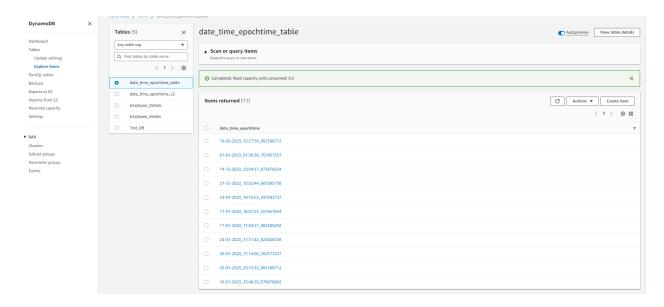
SQS

Problem statement:

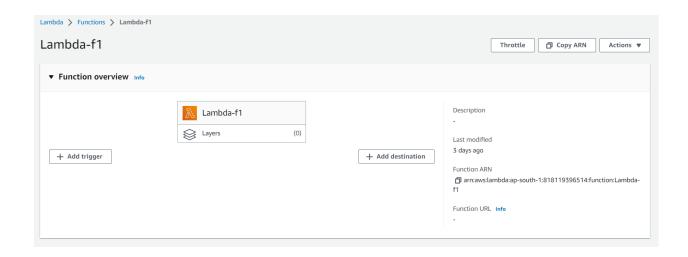
- 1. Create a dynamodb table having primary key as 'date_time_epochtime' and insert 10+ records in the table. For eg. 01-01-2023_15:02:44_166778993
- 2. Create two lambda functions forming the producer-consumer architecture using SQS queue in between.
- 3. Producer function will scan records from the dynamodb table and send a batch of 4 records at a time to the SQS queue.
- 4. Consumer function will be invoked by the latest SQS messages and should perform these actions:
- 1. It should split the record in date, time and epoch time.
- 2. Update the record in dynamodb table having these columns: date, time and epoch_time. Add one more column 'last_updated' that will contain the date_time of updating the data.

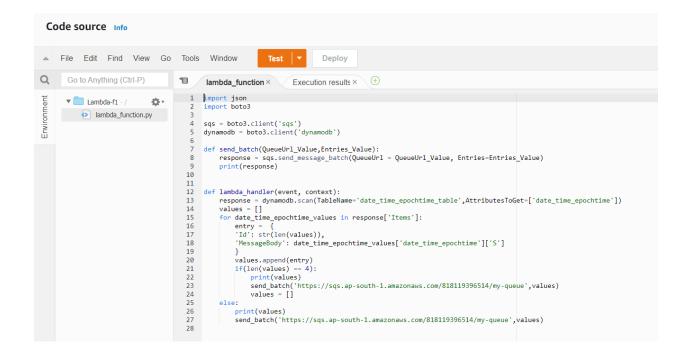
Solution:

Created a DynamoDB table with the following items which contains the combination of date_time_epochtime

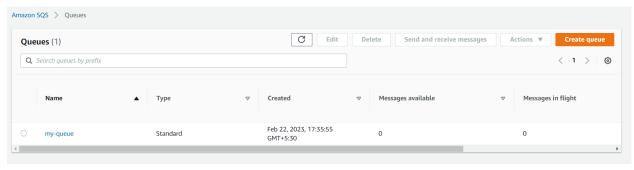


Created one lambda function that will retrieve items from the DynamoDB data_time_epochtime table and send to SQS as batch of 4 items each time

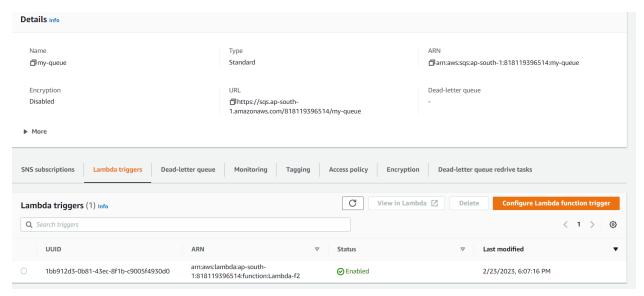




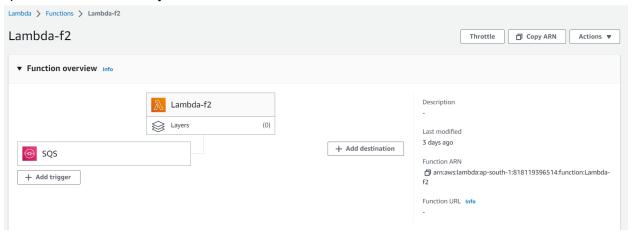
SQS:

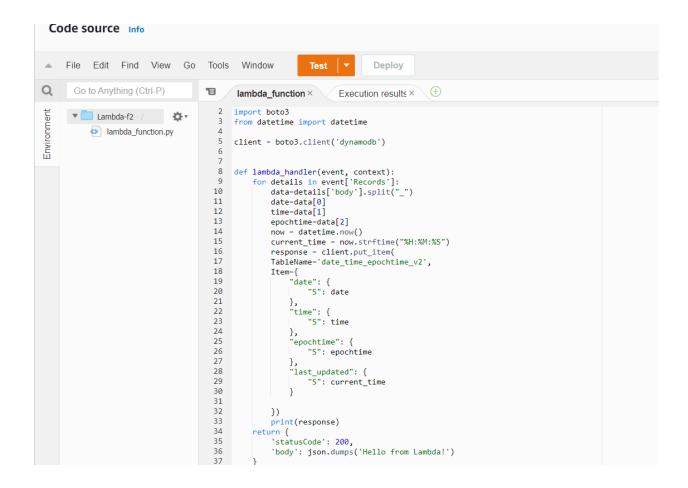


Added a trigger as lambda second function it will trigger when new msg is sent to the queue.

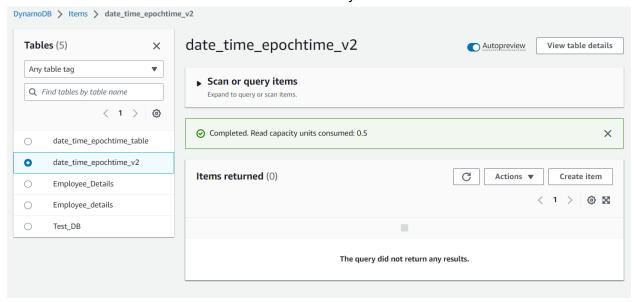


Created another lambda function which will trigger when new msg is sent to the queue it will split the time, data and epoch time data and also add the current time as last modified and it will update as items in the dynamo db table.

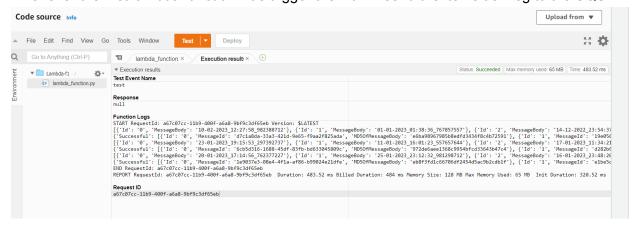




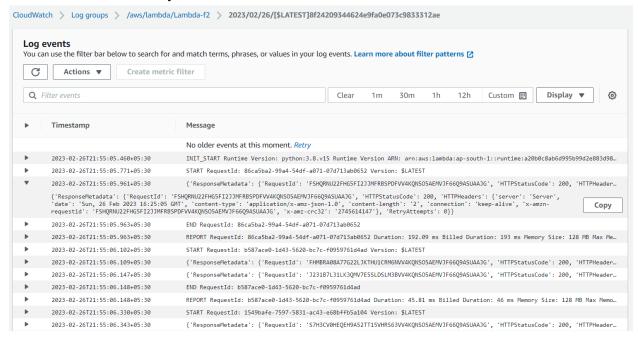
You can see there are no items at all in the second DynamoDB table



Whenever the first lambda function was trigger then it will send the items as msg to the SQS.



After sending the msg to the SQS then the second lambda function will be triggered it will split the time, data and epoch time data and also add the current time as last modified. it will update as items in the second DynamoDB table.



Finally items are updated in the second dynamo db table.

