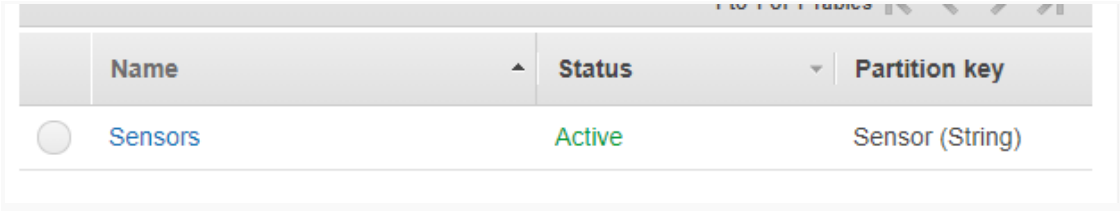
Kyra Samuel
SDEV400
Homework 2: Using DynamoDB
04/17/2021

Part 1

1. Create Table

```
aws dynamodb create-table \
    --table-name Sensors \
    --attribute-definitions \
        AttributeName=Sensor,AttributeType=S \
    --key-schema \
        AttributeName=Sensor,KeyType=HASH \
--provisioned-throughput \
        ReadCapacityUnits=25,WriteCapacityUnits=25
```

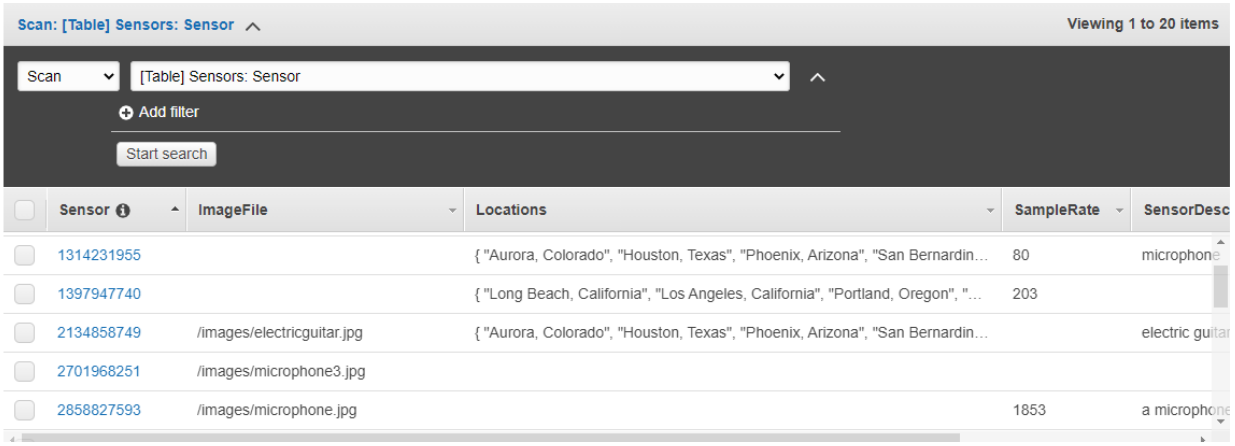

```
{
    "TableDescription": {
        "TableArn": "arn:aws:dynamodb:us-east-1:856610439518:table/Sensors",
        "AttributeDefinitions": [
            {
                "AttributeName": "Sensor",
                "AttributeType": "S"
            }
        ],
        "ProvisionedThroughput": {
            "NumberOfDecreasesToday": 0,
            "WriteCapacityUnits": 25,
            "ReadCapacityUnits": 25
        },
        "TableSizeBytes": 0,
        "TableName": "Sensors",
        "TableStatus": "CREATING",
        "TableId": "f3b66ad6-1c35-4e93-8919-33044c901655",
        "KeySchema": [
            {
                "KeyType": "HASH",
                "AttributeName": "Sensor"
            }
```

2. Fill Table

`aws dynamodb batch-write-item --request-items file://random.json`

```
vocstartsoft:~/environment $ aws dynamodb batch-write-item --request-items file://random.json
{
    "UnprocessedItems": {}
}
vocstartsoft:~/environment $
```



3. Scan Table

`aws dynamodb scan --table-name Sensors`

```
vocstartsoft:~/environment $ aws dynamodb scan --table-name Sensors
{
    "Count": 20,
    "Items": [
        {
            "ImageFile": {
                "S": "/images/electricguitar.jpg"
            },
            "SampleRate": {
                "N": "5605"
            },
            "Sensor": {
                "S": "6420945476"
            },
            "Locations": {
                "SS": [
                    "Phoenix, Arizona",
                    "San Bernardino, California"
                ]
            }
        },
        {
            "SensorDescription": {
                "S": "microphone"
            },
            "SampleRate": {
                "N": "80"
            }
```

Part 2

1. Create Table

```
vocstartsoft:~/environment $ python3 main.py
      MENU
1: Display Course Title
2: List Courses
3: Create Table
0: Exit Program

Enter '<' to return to the menu at any time.

Select an option: 3
      MENU
1: Display Course Title
2: List Courses
3: Create Table
0: Exit Program

Enter '<' to return to the menu at any time.

Select an option:
```

2. List Courses

```
Select an option: 2
MATH 246
MATH 301
SDEV 300
SDEV 400
CMIS 320
CMIS 440
CMIT 326
CMIT 424
CMSC 335
CMSC 412
      MENU
```

3. Display Course Title

```
vocstartsoft:~/environment $ python3 main.py
      MENU
1: Display Course Title
2: List Courses
3: Create Table
0: Exit Program

Enter '<' to return to the menu at any time.

Select an option: 1
Enter Subject: SDEV
Enter Course Number: 300
The title of SDEV 300 is Building Secure Python Applications.

Would you like to search for another title? (Y or N): Y
Enter Subject: CMIT
Enter Course Number: 326
The title of CMIT 326 is Cloud Technologies.

Would you like to search for another title? (Y or N): Y
Enter Subject: CMSC
Enter Course Number: 301
Invalid Course Number associated with Subject.
Please enter a valid course number.
Enter Course Number: 412
The title of CMSC 412 is Operating Systems.

Would you like to search for another title? (Y or N): N
      MENU
```

```
      MENU
1: Display Course Title
2: List Courses
3: Create Table
0: Exit Program

Enter '<' to return to the menu at any time.

Select an option: 0
Thanks for using the Catalog Search program.
vocstartsoft:~/environment $
```

Part 3

1. Delete Table

```
aws dynamodb delete-table --table-name “Courses”
```