DBT ASSIGNMENT 4

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2. DynamoDB-

Listing all the tables initially gives an empty list-

```
C:\WINDOWS\system32>aws dynamodb list-tables
{
    "TableNames": []
}
C:\WINDOWS\system32>
```

 Creating a table, Musician, and adding two attributes, musician_id (PK) and stage_name (sort key), along with their types-

aws dynamodb create-table --table-name Musician --attribute-definitions
AttributeName=musician_id,AttributeType=S
AttributeName=stage_name,AttributeType=S --key-schema
AttributeName=musician_id,KeyType=HASH
AttributeName=stage_name,KeyType=RANGE --provisioned-throughput
ReadCapacityUnits=1,WriteCapacityUnits=1

Listing the tables again, the newly created Musician table is seen-

```
C:\WINDOWS\system32>aws dynamodb list-tables
{
    "TableNames": [
        "Musician"
    ]
}
C:\WINDOWS\system32>_
```

Insertion into Musician using put command-

aws dynamodb put-item --table-name Musician --item file://insert.json aws dynamodb put-item --table-name Musician --item file://insert2.json

```
D:\PES_Stuff\SEM_5_STUFF\DBT\Assignments\Assignment4>aws dynamodb put-item --table-name Musician --item file://in
sert.json
D:\PES_Stuff\SEM_5_STUFF\DBT\Assignments\Assignment4>
```

Both the items have been inserted.

```
D:\PES_Stuff\SEM_5_STUFF\DBT\Assignments\Assignment4>aws dynamodb scan --table-name Musician
      "Items": [
                 "musician_id": {
    "S": "mus1"
                  "no_of_albums": {
    "N": "6"
                   best_songs": {
                            "song1",
"song2"
                    stage_name": {
"S": "Roxy"
                   age": {
"N": "20"
                 "awards": {
    "S": "musicAward"
                   musician_id": {
    "S": "mus2"
                  "no_of_albums": {
    "N": "8"
                  "best_songs": {

"SS": [

"song3",

"song4"
```

Retrieve the stage name of the item where musician id is mus1-

aws dynamodb query --table-name Musician --projection-expression "stage_name" --key-condition-expression "musician_id = :v1" --expression-attribute-values file://query1.json --return-consumed-capacity TOTAL

Update using put command-

Updating the first item to include an award attribute-

aws dynamodb putitem --table-name Musician --item file://update1.json

It has been updated, the new field has been added to item 1.

 Update using update command-Update Trixie's number of albums to 10-

aws dynamodb update-item --table-name Musician --key file://key.json --update-expression "SET #V = :v" --expression-attribute-names file://u1.json --expression-attribute-values file://u2.json --return-values ALL_NEW

```
D:\PES_Stuff\SEM_5_STUFF\DBT\Assignments\Assignment4>aws dynamodb update-item --table-name Musician --key file://key.json --update-expression "SET #V = :v" --expression-attribute-names file://ul.json --expression-attribute-val ues file://ul.json --return-values ALL_NEW {

    "Attributes": {
        "awards": {
            "S": "musician_id": {
                "S": "music |
               "N": "10"
        },
        "best_songs": {
                "SS": [
                "song3",
                "song4"
        }
     },
     "stage_name": {
                "S": "Trixie"
     },
                "aee": {
                "N": "35"
     }
}

D:\PES_Stuff\SEM_5_STUFF\DBT\Assignments\Assignment4>__
```

It has been updated.

 Delete item where name is Roxy-

aws dynamodb delete-item
--table-name Musician --key
file://delete.json --returnconsumed-capacity TOTAL

It has been deleted.

delete the table Musician-

aws dynamodb delete-table --table-name Musician

The table has been deleted and hence, the list is empty.