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**Assignment: dynamo dB queries\*/**

**1. Create customer table Customer**

**(Cust\_id,Cust\_name,address,city,state,zipcode)**

var params = {

TableName : "Customer",

KeySchema: [

{ AttributeName: "Cust\_id", KeyType: "HASH" }, //Partition key

{ AttributeName: "Cust\_name", KeyType: "RANGE" } //Sort key

],

AttributeDefinitions: [

{ AttributeName: "Cust\_id", AttributeType: "S" },

{ AttributeName: "Cust\_name", AttributeType: "S" }

],

ProvisionedThroughput: {

ReadCapacityUnits: 1,

WriteCapacityUnits: 1

}

};

dynamodb.createTable(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

**Output:**

{

"TableDescription": {

"AttributeDefinitions": [

{

"AttributeName": "Cust\_id",

"AttributeType": "S"

},

{

"AttributeName": "Cust\_name",

"AttributeType": "S"

}

],

"TableName": "Customer",

"KeySchema": [

{

"AttributeName": "Cust\_id",

"KeyType": "HASH"

},

{

"AttributeName": "Cust\_name",

"KeyType": "RANGE"

}

],

"TableStatus": "ACTIVE",

"CreationDateTime": "2017-01-25T13:26:19.132Z",

"ProvisionedThroughput": {

"LastIncreaseDateTime": "1970-01-01T00:00:00.000Z",

"LastDecreaseDateTime": "1970-01-01T00:00:00.000Z",

"NumberOfDecreasesToday": 0,

"ReadCapacityUnits": 1,

"WriteCapacityUnits": 1

},

"TableSizeBytes": 0,

"ItemCount": 0,

"TableArn": "arn:aws:dynamodb:ddblocal:000000000000:table/Customer"

}

}

**2. Insert Items in Customer table**

var params = {

TableName: "Customer",

Item: {

"Cust\_id":"101",

"Cust\_name":"Samkit",

"Address":"Wanwadi",

"City": "Pune",

"State": "Maharashtra",

"Zipcode": "411040",

} };

dynamodb.putItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

var params = {

TableName: "Customer",

Item: {

"Cust\_id":"102",

"Cust\_name":"Ninad",

"Address":"Bibewadi",

"City": "Pune",

"State": "Maharashtra",

"Zipcode": "411043",

} };

dynamodb.putItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

var params = {

TableName: "Customer",

Item: {

"Cust\_id":"103",

"Cust\_name":"Reeta",

"Address":"Camp",

"City": "Pune",

"State": "Maharashtra",

"Zipcode": "411001",

} };

dynamodb.putItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

var params = {

TableName: "Customer",

Item: {

"Cust\_id":"104",

"Cust\_name":"Neha",

"Address":"Malad",

"City": "Mumbai",

"State": "Maharashtra",

"Zipcode": "4110042",

} };

dynamodb.putItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

**Output:**

{}

{}

{}

{}

**3. List all inserted items form customer.**

var params = {

TableName: "Customer"

};

dynamodb.scan(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

**Output:**

{

"Items": [

{

"Cust\_name": "Samkit",

"Zipcode": "411040",

"City": "Pune",

"Cust\_id": "101",

"Address": "Wanwadi",

"State": "Maharashtra"

},

{

"Cust\_name": "Reeta",

"Zipcode": "411001",

"City": "Pune",

"Cust\_id": "103",

"Address": "Camp",

"State": "Maharashtra"

},

{

"Cust\_name": "Ninad",

"Zipcode": "411043",

"City": "Pune",

"Cust\_id": "102",

"Address": "Bibewadi",

"State": "Maharashtra"

},

{

"Cust\_name": "Neha",

"Zipcode": "4110042",

"City": "Mumbai",

"Cust\_id": "104",

"Address": "Malad",

"State": "Maharashtra"

}

],

"Count": 4,

"ScannedCount": 4

}

**4. List details of customer whose customer id is 102 and name Ninad**

var params = {

TableName: "Customer",

Key: { "Cust\_id": "102",

"Cust\_name": "Ninad"

} };

dynamodb.getItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));});

**Output:**

{

"Item": {

"Cust\_name": "Ninad",

"Zipcode": "411043",

"City": "Pune",

"Cust\_id": "102",

"Address": "Bibewadi",

"State": "Maharashtra"

}

}

**5. Give the address and zipcode of customer whose customer id is 102 and name “Ninad”.**

var params = { TableName: "Customer",

Key: { "Cust\_id": "102",

"Cust\_name":"Ninad"},

ProjectionExpression: "Zipcode,Address",

};

dynamodb.getItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));});

**Output:**

{

"Item": {

"Address": "Bibewadi",

"Zipcode": "411043"

}

}

**6. Give the city of customer whose customer id is 102 and name “Ninad”.**

var params = { TableName: "Customer",

Key: { "Cust\_id": "102",

"Cust\_name":"Ninad"},

ProjectionExpression: "City",

};

dynamodb.getItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));});

**Output:**

{

"Item": {

"City": "Pune"

}

}

**7. Display all details of customer whose List the customer id is 101.**

var params = {

TableName: "Customer",

KeyConditionExpression: "Cust\_id = :cust\_id",

ExpressionAttributeValues: {

":cust\_id": "101"

}

};

dynamodb.query(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

**Output:**

{

"Items": [

{

"Cust\_name": "Samkit",

"Zipcode": "411040",

"City": "Pune",

"Cust\_id": "101",

"Address": "Wanwadi",

"State": "Maharashtra"

}

],

"Count": 1,

"ScannedCount": 1

}

**8. Update customer table by adding one attribute Product.**

var params = {

TableName: "Customer",

Key: {

"Cust\_id":"101",

"Cust\_name":"Samkit"

},

UpdateExpression: "SET Product= :label",

ExpressionAttributeValues: {

":label": "Oreo"

},

ReturnValues: "ALL\_NEW"

};

dynamodb.updateItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

**Output:**

{

"Attributes": {

"Address": "Wanwadi",

"Cust\_id": "101",

"State": "Maharashtra",

"Cust\_name": "Samkit",

"Zipcode": "411040",

"Product": "Oreo",

"City": "Pune"

}

}

**9. Delete customer with customer id 104 and Name Neha**

var params = {

TableName: "Customer",

Key: {

Cust\_id: "104",

Cust\_name: "Neha"

}

};

dynamodb.deleteItem(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

**Output:**

{}

**List of all:**

**Output**

{

"Items": [

{

"Address": "Wanwadi",

"Cust\_id": "101",

"State": "Maharashtra",

"Cust\_name": "Samkit",

"Zipcode": "411040",

"Product": "Oreo",

"City": "Pune"

},

{

"Cust\_name": "Reeta",

"Zipcode": "411001",

"City": "Pune",

"Cust\_id": "103",

"Address": "Camp",

"State": "Maharashtra"

},

{

"Cust\_name": "Ninad",

"Zipcode": "411043",

"City": "Pune",

"Cust\_id": "102",

"Address": "Bibewadi",

"State": "Maharashtra"

}

],

"Count": 3,

"ScannedCount": 3

}

**Describe Table**

var params = {

TableName: "Customer"

};

dynamodb.describeTable(params, function(err, data) {

if (err)

console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));

});

{

"Table": {

"AttributeDefinitions": [

{

"AttributeName": "Cust\_id",

"AttributeType": "S"

},

{

"AttributeName": "Cust\_name",

"AttributeType": "S"

}

],

"TableName": "Customer",

"KeySchema": [

{

"AttributeName": "Cust\_id",

"KeyType": "HASH"

},

{

"AttributeName": "Cust\_name",

"KeyType": "RANGE"

}

],

"TableStatus": "ACTIVE",

"CreationDateTime": "2017-01-25T13:26:19.132Z",

"ProvisionedThroughput": {

"LastIncreaseDateTime": "1970-01-01T00:00:00.000Z",

"LastDecreaseDateTime": "1970-01-01T00:00:00.000Z",

"NumberOfDecreasesToday": 0,

"ReadCapacityUnits": 1,

"WriteCapacityUnits": 1

},

"TableSizeBytes": 237,

"ItemCount": 3,

"TableArn": "arn:aws:dynamodb:ddblocal:000000000000:table/Customer"

}

}

**Clean Up**

var params = { TableName: "Customer"};

dynamodb.deleteTable(params, function(err, data) {

if (err) console.log(JSON.stringify(err, null, 2));

else

console.log(JSON.stringify(data, null, 2));});

**Output:**

{

"TableDescription": {

"AttributeDefinitions": [

{

"AttributeName": "Cust\_id",

"AttributeType": "S"

},

{

"AttributeName": "Cust\_name",

"AttributeType": "S"

}

],

"TableName": "Customer",

"KeySchema": [

{

"AttributeName": "Cust\_id",

"KeyType": "HASH"

},

{

"AttributeName": "Cust\_name",

"KeyType": "RANGE"

}

],

"TableStatus": "ACTIVE",

"CreationDateTime": "2017-01-25T13:26:19.132Z",

"ProvisionedThroughput": {

"LastIncreaseDateTime": "1970-01-01T00:00:00.000Z",

"LastDecreaseDateTime": "1970-01-01T00:00:00.000Z",

"NumberOfDecreasesToday": 0,

"ReadCapacityUnits": 1,

"WriteCapacityUnits": 1

},

"TableSizeBytes": 237,

"ItemCount": 3,

"TableArn": "arn:aws:dynamodb:ddblocal:000000000000:table/Customer"

}

}