**DynamoDB queries with output**

**1. Create customer table Customer**

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

Create Table(Input)

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": "2016-01-20T03:54:13.069Z",

"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"

}

}

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**2. Insert Items in Customer table**

PutItem

var params = {

TableName: "Customer",

Item: {

"Cust\_id":"100",

"Cust\_name":"Ravi",

"Address":"Sinhgad Road",

"City": "Pune",

"State": "Maharashtra",

"Zipcode": "411041",

} };

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

if (err)

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

else

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

});

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**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": "Ravi Kumar",

"State": "Maharashtra",

"Zipcode": "411000",

"Cust\_id": "101",

"City": "Pune",

"Address": "Camp Road"

},

{

"Cust\_name": "Rakesh Kumar",

"State": "Maharashtra",

"Zipcode": "411043",

"Cust\_id": "102",

"City": "Pune",

"Address": "Kothrud"

},

{

"Cust\_name": "Ravi",

"State": "Maharashtra",

"Zipcode": "411041",

"Cust\_id": "100",

"City": "Pune",

"Address": "Sinhgad Road"

},

{

"Cust\_name": "Madhuri",

"State": "Maharashtra",

"Zipcode": "411042",

"Cust\_id": "104",

"City": "Pune",

"Address": "Swargate"

}

],

"Count": 4,

"ScannedCount": 4

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

“Rakesh kumar”.

var params = {

TableName: "Customer",

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

"Cust\_name": "Rakesh Kumar"

} };

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": "Rakesh Kumar",

"State": "Maharashtra",

"Zipcode": "411043",

"Cust\_id": "102",

"City": "Pune",

"Address": "Kothrud"

}

}

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

var params = { TableName: "Customer",

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

"Cust\_name":"Rakesh Kumar"},

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": {

"Zipcode": "411043",

"Address": "Kothrud"

}

}

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

var params = { TableName: "Customer",

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

"Cust\_name":"Rakesh Kumar"},

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"

}

}

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**8. Display all details of customer whose List the customer id is 100.**

var params = {

TableName: "Customer",

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

ExpressionAttributeValues: {

":cust\_id": "100"

}

};

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

if (err)

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

else

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

});

Ouput

{

"Items": [

{

"Cust\_name": "Ravi",

"State": "Maharashtra",

"Zipcode": "411041",

"Cust\_id": "100",

"City": "Pune",

"Address": "Sinhgad Road"

}

],

"Count": 1,

"ScannedCount": 1

}

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

var params = {

TableName: "Customer",

Key: {

"Cust\_id":"100",

"Cust\_name":"Ravi"

},

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));

});

Ouput

{

"Attributes": {

"Product": "Oreo",

"State": "Maharashtra",

"Cust\_id": "100",

"Address": "Sinhgad Road",

"Cust\_name": "Ravi",

"Zipcode": "411041",

"City": "Pune"

}

}

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**10.Delete customer with customer id 104 and Name Madhuri**

var params = {

TableName: "Customer",

Key: {

Cust\_id: "104",

Cust\_name: "Madhuri"

}

};

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

if (err)

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

else

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

});

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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));});