

DSCI 551 Lab 4

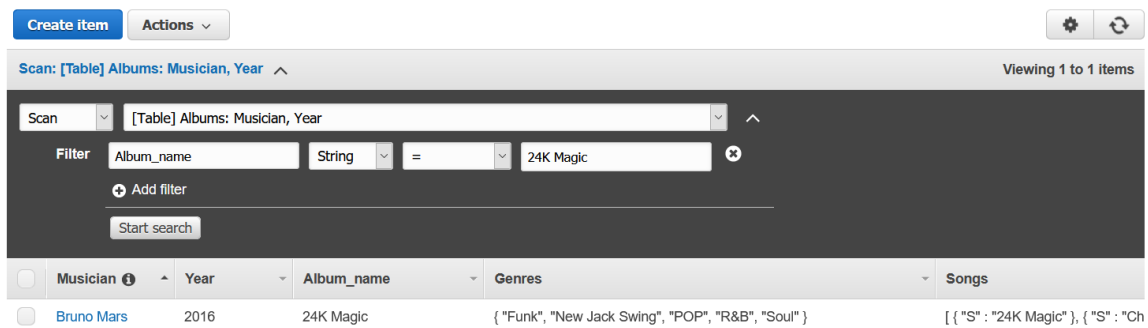
Jiahao Sun

Screenshot of the contents of the item:



Screenshot of an example of searching using “scan” and “query”:

Scan:



Query:

Create item

Actions

Query: [Table] Albums: Musician, Year

Viewing 1 to 1 items

Query

[Table] Albums: Musician, Year

Partition key

Musician

String

=

Bruno Mars

Sort key

Year

Number

=

2012

Add filter

Sort

Ascending

Descending

Attributes

All

Projected

<input type="checkbox"/>	Musician	Year	Album_name	Genres	Songs
<input type="checkbox"/>	Bruno Mars	2012	Unorthodox Jukebox	{ "POP", "disco", "reggae", "rock" }	[{ "S" : "Young Girls" }, { "S" : "L

Contents of an item in Json format:

Text

☒ DynamoDB JSON

```
1 {
2   "Album_name": {
3     "S": "Unorthodox Jukebox"
4   },
5   "Genres": {
6     "SS": [
7       "POP",
8       "disco",
9       "reggae",
10      "rock"
11    ]
12  },
13  "Musician": {
14    "S": "Bruno Mars"
15  },
16  "Songs": {
17    "L": [
18      {
19        "S": "Young Girls"
20      },
21      {
22        "S": "Locked Out of Heaven"
23      },
24      {
25        "S": "Gorilla"
26      },
27      {
28        "S": "Treasure"
29      }
30    ]
31  }
32 }
```

```
{
  "Album_name": {
    "S": "Unorthodox Jukebox"
  },
  "Genres": {
    "SS": [
      "POP",
```

```
    "disco",
    "reggae",
    "rock"
  ]
},
"Musician": {
  "S": "Bruno Mars"
},
"Songs": {
  "L": [
    {
      "S": "Young Girls"
    },
    {
      "S": "Locked Out of Heaven"
    },
    {
      "S": "Gorilla"
    },
    {
      "S": "Treasure"
    },
    {
      "S": "Moonshine"
    },
    {
      "S": "When I Was Your Man"
    },
    {
      "S": "Natalie"
    }
  ]
}
```

```
    },
    {
      "S": "Show Me"
    },
    {
      "S": "Money Make Her Smile"
    },
    {
      "S": "If I Knew"
    }
  ]
},
"Technical_and_composing_credits": {
  "M": {
    "background_vocals": {
      "L": [
        {
          "S": "Jeff Bhasker"
        },
        {
          "S": "Mark Ronson"
        }
      ]
    }
  },
  "production": {
    "L": [
      {
        "S": "The Smeezingtons"
      },
      {
```

```
        "S": "Benny Blanco "
    }
]
}
},
"Year": {
    "N": "2012"
}
}
```

Explanation on the difference between “scan” and “query”:

Using query, we need to specify the key. Both the partition key and the sort key need to be specified. However, scanning does not need to enter keys. We can use scanning by entering any filter of the attributes.