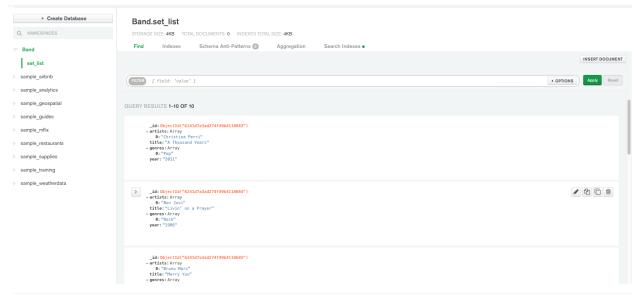
Mattia Danese CS20 - Web Programming Professor DiOrio Assignment 13: NoSQL Practice

Questions

- The tools needed to work with an SQL and noSQL database are:
 - o SQL: MySQL, Oracle, SQL query language, PHP, CPanel Hosting
 - o noSQL: Couchbase, MongoDB Atlas, MongoDB Shell (JavaScript)
- After working with both types of databases, I do not think I outright choose one database type over the other because I like certain things from both types. I think SQL databases are more intuitive as they are set up as actual tables with columns and records. I also prefer querying in SQL. However, having records, or rather documents, be in JSON format in noSQL databases makes them a lot easier and preferable to use with actual projects and applications. I am much more accustomed to SQL databases; however, if I had to pick I would choose noSQL databases just because of the integrated JSON data format.

Part 1



• Select Database

Atlas atlas-z9wpsk-shard-0 [primary] local> use Band switched to db Band Atlas atlas-z9wpsk-shard-0 [primary] Band>

• Show all data from all songs

```
Atlas atlas-z9wpsk-shard-0 [primary] Band> db.set list.find()
  id: ObjectId("6241d7a3ad274f49b4118683"),
  artists: [ 'Christina Perri' ],
  title: 'A Thousand Years',
  genres: ['Pop'],
  year: '2011'
  id: ObjectId("6241d7a3ad274f49b4118684"),
  artists: [ 'Bon Jovi' ],
  title: "Livin' on a Prayer",
  genres: ['Rock'],
  year: '1986'
 },
  id: ObjectId("6241d7a3ad274f49b4118685"),
  artists: [ 'Bruno Mars' ],
  title: 'Marry You',
  genres: ['R&B/Soul'],
  year: '2011'
 },
  id: ObjectId("6241d7a3ad274f49b4118686"),
  artists: [ 'Ed Sheeran'],
  title: 'Perfect',
  genres: ['Pop'],
  year: '2017'
 },
```

```
id: ObjectId("6241d7a3ad274f49b4118687"),
artists: [ 'John Legend' ],
 title: 'All of Me',
 genres: ['R&B/Soul'],
 year: '2013'
},
 _id: ObjectId("6241d7a3ad274f49b4118688"),
artists: [ 'Bad Bunny', 'Sech' ],
 title: 'Ignorantes',
 genres: [ 'Reggaetón' ],
 year: '2020'
},
 _id: ObjectId("6241d7a3ad274f49b4118689"),
 artists: ['Louis Armstrong'],
 title: 'What a Wonderful World',
 genres: [ 'Holiday' ],
 year: '1968'
},
 id: ObjectId("6241d7a3ad274f49b411868a"),
 artists: ['The Beatles'],
 title: 'I Want to Hold Your Hand',
 genres: [
  'R&B/Soul',
  'Alternative/Indie',
  "Children's Music",
  'Folk',
  'Pop',
  'Rock'
 ],
year: '1964'
 id: ObjectId("6241d7a3ad274f49b411868b"),
 artists: [ 'Miles Davis' ],
 title: 'All Blues',
 genres: [ 'Jazz' ],
 year: '1959'
```

```
},
{
    _id: ObjectId("6241d7a3ad274f49b411868c"),
    artists: [ 'Jack Brooks', 'Harry Warren' ],
    title: "That's Amore",
    genres: [ 'Pop', 'Holiday' ],
    year: '1953'
}
]
Atlas atlas-z9wpsk-shard-0 [primary] Band>
```

• Show all song titles from a particular genre (pop)

```
Atlas atlas-z9wpsk-shard-0 [primary] Band> db.set_list.find({genres: "Pop"}, {title: 1, _id: 0})
[
{ title: 'A Thousand Years' },
{ title: 'Perfect' },
{ title: 'I Want to Hold Your Hand' },
{ title: "That's Amore" }
]
Atlas atlas-z9wpsk-shard-0 [primary] Band>
```