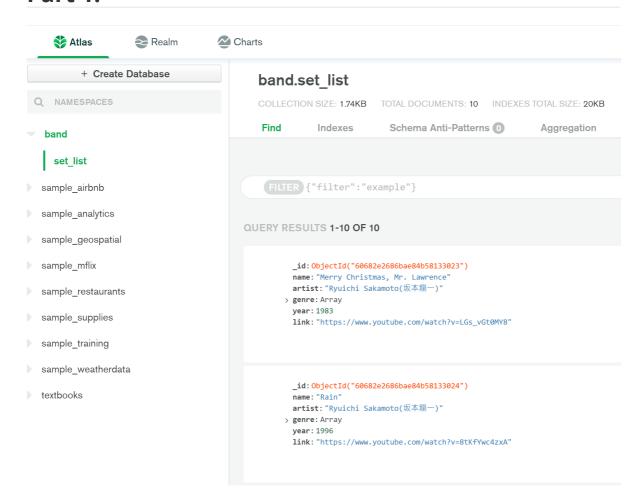
Assignment 12: NoSQL Practice

Student Name: Yuehan Dai

CS login: ydai05

Part 1:



```
_id: ObjectId("60682e2686bae84b58133028")
 name: "Faded"
 artist: "Alan Walker"
> genre: Array
 year: 2015
 link: "https://www.youtube.com/watch?v=60ItHLz5WEA"
 _id: ObjectId("60682e2686bae84b58133029")
 name: "Libertango"
 artist: "Yoyo Ma"
> genre: Array
 year: 1997
 link: "https://www.youtube.com/watch?v=WdoHeJBbNs0"
 _id: ObjectId("60682e2686bae84b5813302a")
 name: "Anatani Deawanakereba Kasetsutouka"
 artist: "Aimer"
> genre: Array
 year: 2012
 link: "https://www.youtube.com/watch?v=iA9Ctaqo3Zc"
 _id: ObjectId("60682e2686bae84b5813302b")
 name: "The Humming"
 artist: "Enya"
> genre: Array
 year: 2015
  link: "https://www.youtube.com/watch?v=FOP_PPavoLA"
```

```
_id: ObjectId("60682e2686bae84b58133025")
 name: "Lemon"
 artist: "Yonezu Kenshi(米津玄師)"
> genre: Array
 year: 2018
 link: "https://www.youtube.com/watch?v=7PowTFw-jAA"
 _id: ObjectId("60682e2686bae84b58133026")
 name: "Shape of My Heart"
 artist: "Sting"
> genre: Array
 year: 1993
 link: "https://www.youtube.com/watch?v=QK-Z1K67uaA"
 _id: ObjectId("60682e2686bae84b58133027")
 name: "Explosive"
 artist: "David Garrett"
> genre: Array
 year: 2015
 link: "https://www.youtube.com/watch?v=vZvwg1p20I4"
```

Part 2

Select the database

```
use band
```

Show all data from all songs

```
db.set_list.find()
```

Show all song titles from a particular genre

```
db.set_list.find({genre:"Instrumental"}, {name: 1, _id: 0})
```

or

```
db.set_list.find({"genre":"Instrumental"}, {name: 1, _id: 0})
```

Both of them works

Question

Identify the tools used to work with an SQL and a NoSQL database.

SQL: MySQL

<u>NoSQL</u>: I used the MongoDB compass to insert the data and the windows' terminal to connect MongoDB.

Which do you prefer working with, a SQL or a NoSQL database and why.

I prefer SQL rather than NoSQL. This is because the syntax of SQL is more direct and easy to read. Further, SQL allows inner join. For example, one books can have multiple authors and one author can have multiple books, and they can be all connected. However, NoSQL is more likely to be the folders, which means the authors can only be the subset of the books.