**SOURCE CODE**

Disini saya menggunakan metode menyimpan kedalam file.js agar lebih mudah saat membuat database dan collection serta memasukkan data kedalam collection

const dbName **=** "rafiansyahMusicDB";

const conn **=** **new** Mongo();

const db **=** conn**.**getDB(dbName);

db**.**createCollection("songs");

db**.**createCollection("artists");

db**.**createCollection("popularSongs");

db**.***songs***.**insertMany([

  { title: "Song 1", artist: ["Artist A1", "Artist B1"], album: "Album 1" },

  { title: "Song 2", artist: ["Artist A2"], album: "Album 2" },

  { title: "Song 3", artist: ["Artist A3"], album: "Album 3" },

  { title: "Song 4", artist: ["Artist A4", "Artist B4", "Artist C4"], album: "Album 4" },

  { title: "Song 5", artist: ["Artist A5"], album: "Album 5" },

  { title: "Song 6", artist: ["Artist A6"], album: "Album 6" },

  { title: "Song 7", artist: ["Artist A7"], album: "Album 7" },

  { title: "Song 8", artist: ["Artist A8"], album: "Album 8" },

  { title: "Song 9", artist: ["Artist A9"], album: "Album 9" },

  { title: "Song 10", artist: ["Artist A10"], album: "Album 10" },

]);

db**.***artists***.**insertMany([

    { name: "Artist A1", dob: **new** Date("2001-04-23"), genres: ["Pop"] },

    { name: "Artist A2", dob: **new** Date("2003-10-27"), genres: ["Rock"] },

    { name: "Artist A3", dob: **new** Date("2003-06-29"), genres: ["Metal"] },

    { name: "Artist B1", dob: **new** Date("2001-01-20"), genres: ["Rock"] },

    { name: "Artist B2", dob: **new** Date("1999-03-16"), genres: ["Blues"] },

    { name: "Artist B3", dob: **new** Date("2004-02-10"), genres: ["Country"] },

    { name: "Artist C1", dob: **new** Date("2001-04-21"), genres: ["Dangdut"] },

    { name: "Artist C2", dob: **new** Date("1997-04-23"), genres: ["Classic"] },

    { name: "Artist C3", dob: **new** Date("2000-08-04"), genres: ["Pop"] },

    { name: "Artist C4", dob: **new** Date("2002-04-30"), genres: ["EDM"] },

]);

db**.***popularSongs***.**insertMany([

  { title: "Song 1", plays: 100, period: "2020" },

  { title: "Song 2", plays: 200, period: "2018" },

  { title: "Song 3", plays: 100, period: "2017" },

  { title: "Song 4", plays: 200, period: "2020" },

  { title: "Song 5", plays: 100, period: "2021" },

  { title: "Song 6", plays: 200, period: "2019" },

  { title: "Song 7", plays: 100, period: "2019" },

  { title: "Song 8", plays: 200, period: "2022" },

  { title: "Song 9", plays: 100, period: "2021" },

  { title: "Song 10", plays: 200, period: "2023" },

]);

dengan menggunakan fungsi load(“file.js”) kita dapat menggunakan file js diatas, berikut hasil output dari terminal mongosh.

PS D:\GIGIH\LATIHAN> cd .\mongodb\homework3.1\

PS D:\GIGIH\LATIHAN\mongodb\homework3.1> mongosh

Current Mongosh Log ID: 64b95c3e4401a0c4e4a51192

Connecting to: mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh+1.10.1

Using MongoDB: 6.0.8

Using Mongosh: 1.10.1

For mongosh info see: https://docs.mongodb.com/mongodb-shell/

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The server generated these startup warnings when booting

2023-07-20T21:41:12.079+07:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

------

test> show dbs

admin 40.00 KiB

config 108.00 KiB

local 72.00 KiB

test> load("rafiansyahMusicDB.js")

true

rafiansyahMusicDB> show dbs

admin 40.00 KiB

config 108.00 KiB

local 72.00 KiB

rafiansyahMusicDB 24.00 KiB

rafiansyahMusicDB> show collections

artists

popularSongs

songs

rafiansyahMusicDB> db.artists.find()

[

{

\_id: ObjectId("64b95c4f4401a0c4e4a5119d"),

name: 'Artist A1',

dob: ISODate("2001-04-23T00:00:00.000Z"),

genres: [ 'Pop' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a5119e"),

name: 'Artist A2',

dob: ISODate("2003-10-27T00:00:00.000Z"),

genres: [ 'Rock' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a5119f"),

name: 'Artist A3',

dob: ISODate("2003-06-29T00:00:00.000Z"),

genres: [ 'Metal' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a0"),

name: 'Artist B1',

dob: ISODate("2001-01-20T00:00:00.000Z"),

genres: [ 'Rock' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a1"),

name: 'Artist B2',

dob: ISODate("1999-03-16T00:00:00.000Z"),

genres: [ 'Blues' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a2"),

name: 'Artist B3',

dob: ISODate("2004-02-10T00:00:00.000Z"),

genres: [ 'Country' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a3"),

name: 'Artist C1',

dob: ISODate("2001-04-21T00:00:00.000Z"),

genres: [ 'Dangdut' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a4"),

name: 'Artist C2',

dob: ISODate("1997-04-23T00:00:00.000Z"),

genres: [ 'Classic' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a5"),

name: 'Artist C3',

dob: ISODate("2000-08-04T00:00:00.000Z"),

genres: [ 'Pop' ]

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a6"),

name: 'Artist C4',

dob: ISODate("2002-04-30T00:00:00.000Z"),

genres: [ 'EDM' ]

}

]

rafiansyahMusicDB> db.songs.find()

[

{

\_id: ObjectId("64b95c4f4401a0c4e4a51193"),

title: 'Song 1',

artist: [ 'Artist A1', 'Artist B1' ],

album: 'Album 1'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a51194"),

title: 'Song 2',

artist: [ 'Artist A2' ],

album: 'Album 2'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a51195"),

title: 'Song 3',

artist: [ 'Artist A3' ],

album: 'Album 3'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a51196"),

title: 'Song 4',

artist: [ 'Artist A4', 'Artist B4', 'Artist C4' ],

album: 'Album 4'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a51197"),

title: 'Song 5',

artist: [ 'Artist A5' ],

album: 'Album 5'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a51198"),

title: 'Song 6',

artist: [ 'Artist A6' ],

album: 'Album 6'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a51199"),

title: 'Song 7',

artist: [ 'Artist A7' ],

album: 'Album 7'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a5119a"),

title: 'Song 8',

artist: [ 'Artist A8' ],

album: 'Album 8'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a5119b"),

title: 'Song 9',

artist: [ 'Artist A9' ],

album: 'Album 9'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a5119c"),

title: 'Song 10',

artist: [ 'Artist A10' ],

album: 'Album 10'

}

]

rafiansyahMusicDB> db.popularSongs.find()

[

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a7"),

title: 'Song 1',

plays: 100,

period: '2020'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a8"),

title: 'Song 2',

plays: 200,

period: '2018'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511a9"),

title: 'Song 3',

plays: 100,

period: '2017'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511aa"),

title: 'Song 4',

plays: 200,

period: '2020'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511ab"),

title: 'Song 5',

plays: 100,

period: '2021'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511ac"),

title: 'Song 6',

plays: 200,

period: '2019'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511ad"),

title: 'Song 7',

plays: 100,

period: '2019'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511ae"),

title: 'Song 8',

plays: 200,

period: '2022'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511af"),

title: 'Song 9',

plays: 100,

period: '2021'

},

{

\_id: ObjectId("64b95c4f4401a0c4e4a511b0"),

title: 'Song 10',

plays: 200,

period: '2023'

}

]

rafiansyahMusicDB>