# **Music Player Application**

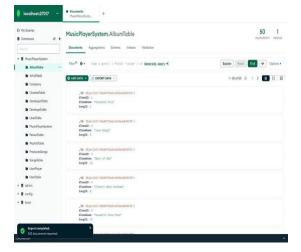
Milestone: Implementation in NoSQL

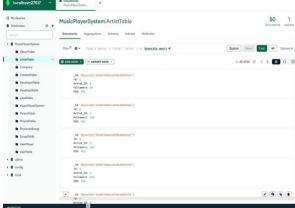
- ETIKALA SAI MAHITHA

The screenshots have all the tables imported into MongoDB:

**Album** 

#### Artist

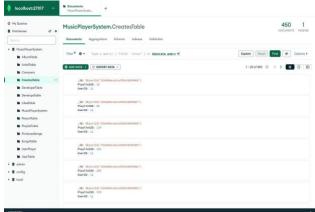




Company

# **Creates**





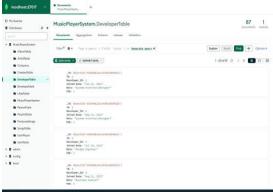
**Developer** 

# **Develops**

© ADDITIONAL OF CRAFFE MAN.

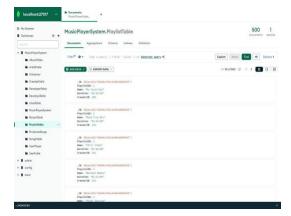
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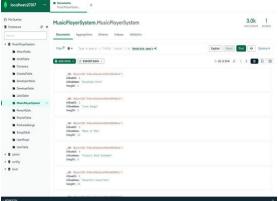
Person

**Playlist** 

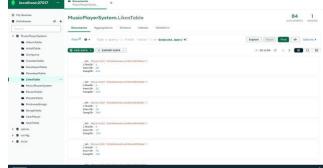




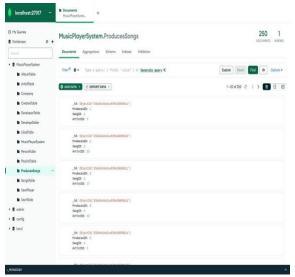
# MusicPlayerSystem



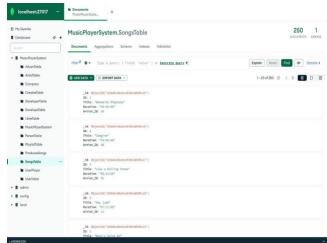
#### Likes



#### **Produces**

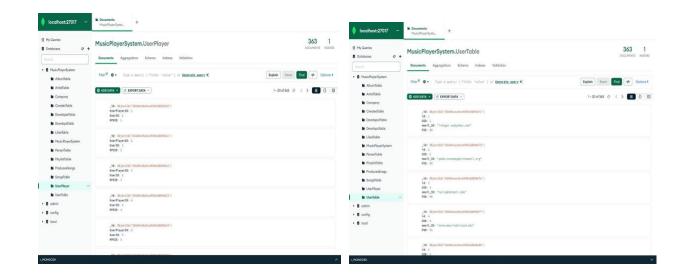


### Songs



UserPlayer

User



#### **NoSQI Queries**

1)This query filtered the Album details with the AlbumName "Indie Showcase"

```
db.AlbumTable.find({
   AlbumName: 'Indie Showcase'
})

> db.AlbumTable.find({
       AlbumName: 'Indie Showcase'
      })

< {
       _id: ObjectId("656d4755a5ce939e3d699401"),
       AlbumID: 8,
       AlbumName: 'Indie Showcase',
       SongID: 33
   }

MusicPlayerSystem > |
```

2) This query filters out all the males whose age is between 23 and 35

```
db.PersonTable.find({
  Gender: 'Male',
  Age: {
    $gte: 23,
    $lte: 35
  }
});
```

```
>_MONGOSH

> db.PersonTable.find((
    Gender: 'Male',
    Age: (
        Sgte: 23,
        Slte: 35
    }

>);

< {
        —id: ObjectId("656d4c24a5ce939e3d699732"),
        id: 3,
        PID: 3,
        Name: 'Blossom Evans',
        Gender: 'Male',
        Age: 23,
        phone: '1-995-746-8709',
        address: 'Ap #263-9754 Dui. Ave'

} {
        —id: ObjectId("656d4c24a5ce939e3d69973c"),
        id: 13,
        PID: 13,
        Name: 'Aiko Norman',
        Gender: 'Male',
        Age: 26,
        phone: '1-141-670-3418',
        address: 'Ap #134-463 Sem, Road'

} {
        —id: ObjectId("656d4c24a5ce939e3d69973d"),
        id: 14,
        PID: 14,
        Name: 'Cedric Powell',
        Gender: 'Male',
        Age: 30,
        phone: '1-642-783-0153',
```

# 3)This query gives the song Title and number of likes it got

```
db.LikesTable.aggregate([
  $lookup: { from:
    "SongsTable",
    localField:
    "SongID",
   foreignField: "ID",
    as: "songData"
  }
},
  $group: { id:
    "$SongID", count:
    { $sum: 1 },
    songDetails: { $first: "$songData" }
  }
},
  $project: {
   _id: 0,
```

```
SongName: "$songDetails.Title", // Replace with the actual field name in SongsTable Count: "$count"
}
}
}
}
```

# 4) This query combines Creates Table with Playlist Table and User Table

5)This query gives us Name, Gender, Age, Phone, Address of users from age 21 and 35 in ascending order and groups people of same age

```
db.PersonTable.aggregate([
  $match: {
   Age: { $gte: 21, $lte: 35 }
},
  $lookup: { from:
   "UserTable",
   localField: "PID",
   foreignField:
   "PID", as:
   "userData"
  }
},
  $group: { _id: "$Age", persons: {
   $push: "$$ROOT" }, userData:
   { $first: "$userData" }
  }
```

```
>_MONGOSH

Age: 23,
    phone: '1-995-746-8769',
    address: 'Ap #263-9754 Dui. Ave'
},
{
    Name: 'Valentine Henderson',
    Gender: 'Female',
    Age: 23,
    phone: '1-316-695-5500',
    address: '5702 In Road'
},
{
    Name: 'Tamara Holland',
    Gender: 'Male',
    Age: 23,
    phone: '1-206-184-4431',
    address: 'P.O. Box 620, 1990 Orci Avenue'
},
{
    Name: 'Astra Murray',
    Gender: 'Hale',
    Age: 23,
    phone: '1-561-635-6589',
    address: '290-2880 Aliquam St.'
},
{
    Name: 'Kyle Simpson',
    Gender: 'Female',
    Age: 23,
    phone: '1-412-931-2767',
    address: '214-2298 Quisque Avenue'
},
{
    Name: 'Brent Cruz',
    Gender: 'Female',
    Age: 23,
    phone: '1-627-338-3513',
    address: '5850 Non St.'
}
}
```