

Mongo DB

Session 2



What is Mongo?



Database

Database is a physical container for collections.



Collection

Collection is a group of MongoDB documents



Document

A document is a set of key-value pairs. Documents have dynamic schema.

RDBMS VS MongoDB

RDBMS	MongoDB
Database	Database
Table	Collection
Column	Field
Tuple/Row	Document
Primary Key	Primary Key(_id)



Collection

```
db.createCollection(name, options)
```

Parameter	Type	Description
Name	String	Name of the collection to be created
Options	Document	(Optional) Specify options about memory size and indexing

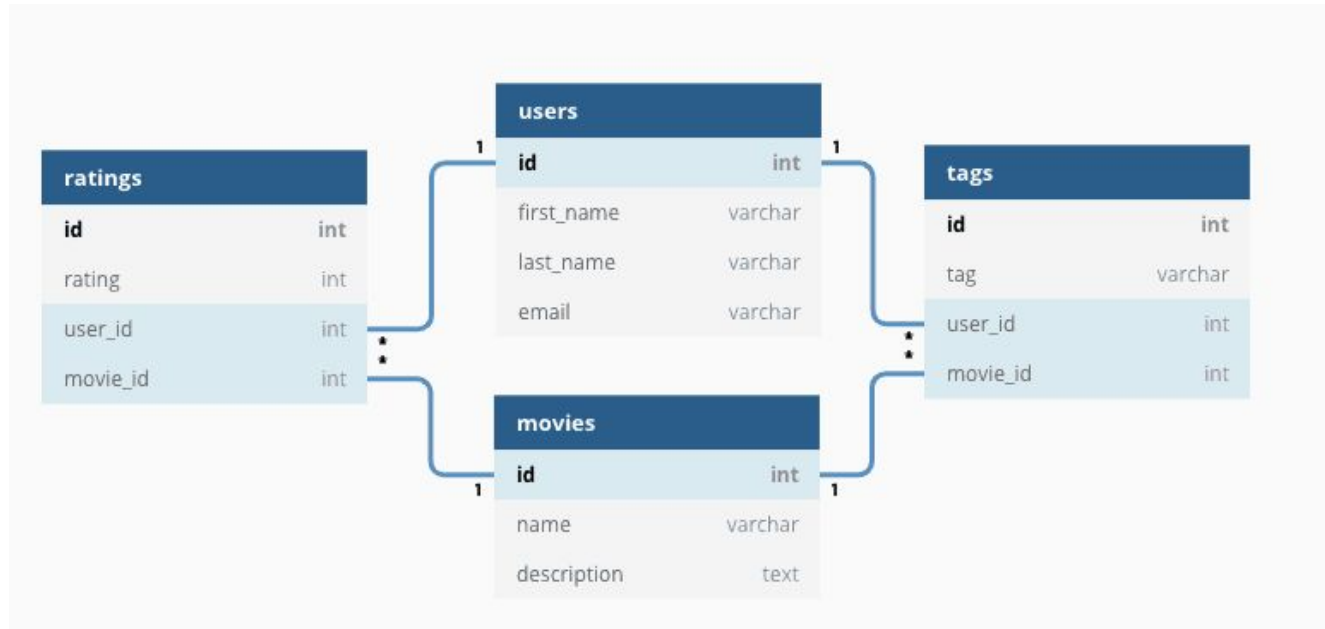


Collection

Field	Type	Description
capped	Database	(Optional) If true, enables a capped collection. Capped collection is a fixed size collection that automatically overwrites its oldest entries when it reaches its maximum size. If you specify true, you need to specify size parameter also.
autoIndexId	Collection	(Optional) If true, automatically create index on <code>_id</code> field.s Default value is false.
size	Field	(Optional) Specifies a maximum size in bytes for a capped collection. If capped is true, then you need to specify this field also.
max	Document	(Optional) Specifies the maximum number of documents allowed in the capped collection.



Relational Databases



MongoDB

```
{
  _id: ,
  Emp_ID: "10025AE336"
  Personal_details:{
    First_Name: "Radhika",
    Last_Name: "Sharma",
    Date_Of_Birth: "1995-09-26"
  },
  Contact: {
    e-mail: "radhika_sharma.123@gmail.com",
    phone: "9848022338"
  },
  Address: {
    city: "Hyderabad",
    Area: "Madapur",
    State: "Telangana"
  }
}
```

MongoDB Document

Embedded Data Model

```
{
  _id: ,
  Emp_ID: "10025AE336"
  Personal_details:{
    First_Name: "Radhika",
    Last_Name: "Sharma",
    Date_Of_Birth: "1995-09-26"
  },
  Contact: {
    e-mail: "radhika_sharma.123@gmail.com",
    phone: "9848022338"
  },
  Address: {
    city: "Hyderabad",
    Area: "Madapur",
    State: "Telangana"
  }
}
```


MongoDB Document

Normalized Data Model

Employee:

```
{
  _id: <ObjectId101>,
  Emp_ID: "10025AE336"
}
```

Personal_details:

```
{
  _id: <ObjectId102>,
  empDocID: " ObjectId101",
  First_Name: "Radhika",
  Last_Name: "Sharma",
  Date_Of_Birth: "1995-09-26"
}
```

Contact:

```
{
  _id: <ObjectId103>,
  empDocID: " ObjectId101",
  e-mail: "radhika_sharma.123@gmail.com",
  phone: "9848022338"
}
```

Address:

```
{
  _id: <ObjectId104>,
  empDocID: " ObjectId101",
  city: "Hyderabad",
  Area: "Madapur",
  State: "Telangana"
}
```

Mongo DB

Practice 2



Objectives

- + Create a command line interface to create, list and remove contact folders
- + Every contact folder should be a container
- + Create a command to create, list and remove contact folders

References

- <https://www.npmjs.com/package/inquirer>
- <https://www.npmjs.com/package/mongodb>