ASSIGNMENT 10

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CREATE DATABASE AND COLLECTION:

```
> show databases
admin    0.000GB
assign9    0.000GB
config    0.000GB
local     0.000GB
> use assign10
switched to db assign10
> db.createCollection("emp_info")
{ "ok" : 1 }
```

INSERTING VALUES IN COLLECTION:

```
> db.emp_info.insert({emp_id:1,emp_name:"Bhavik",emp_age:20,emp_city:"Pune",emp_salary:50000})
WriteResult({ "nInserted" : 1 })
> db.emp_info.insert({emp_id:2,emp_name:"Steve",emp_age:60,emp_city:"LA",emp_salary:90000})
WriteResult({ "nInserted" : 1 })
> db.emp_info.insert({emp_id:3,emp_name:"Jeff",emp_age:40,emp_city:"Mumbai",emp_salary:40000})
WriteResult({ "nInserted" : 1 })
> db.emp_info.insert({emp_id:4,emp_name:"Dhoni",emp_age:39,emp_city:"Pune",emp_salary:99000})
WriteResult({ "nInserted" : 1 })
```

DISPLAYING VALUES IN COLLECTION USING PRETTY:

```
db.emp_info.find().pretty()
        "_id" : ObjectId("5faacfdf65da66d36603e8eb"),
        "emp_id" : 1,
"emp_name" : "Bhavik",
"emp_age" : 20,
"emp_city" : "Pune",
        "emp_salary" : 50000
        "_id" : ObjectId("5faad05465da66d36603e8ec"),
        "emp_id" : 2,
"emp_name" : "Steve",
        "emp_age" : 60,
        "emp_city" : "LA",
        "emp_salary" : 90000
        "_id" : ObjectId("5faad07565da66d36603e8ed"),
        "emp_id" : 3,
"emp_name" : "Jeff",
        "emp_age" : 40,
        "emp_city" : "Mumbai",
"emp_salary" : 40000
        "_id" : ObjectId("5faad0db65da66d36603e8ee"),
        "emp_id" : 4,

"emp_name" : "Dhoni",

"emp_age" : 39,

"emp_city" : "Pune",
        "emp_salary" : 99000
```

Displaying employee info sorted on name field:

```
db.emp_info.aggregate({$sort:{emp_name:1}}).pretty()
      " id" : ObjectId("5faacfdf65da66d36603e8eb"),
      "emp_id" : 1,
"emp_name" : "Bhavik",
      "emp_age" : 20,
      "emp city" : "Pune",
      "emp_salary" : 50000
      "_id" : ObjectId("5faad0db65da66d36603e8ee"),
      "emp_id" : 4,
"emp_name" : "Dhoni",
      "emp_age" : 39,
      "emp_city" : "Pune",
      "emp_salary" : 99000
      "_id" : ObjectId("5faad07565da66d36603e8ed"),
      "emp_id" : 3,
"emp_name" : "Jeff",
      "emp_age" : 40,
      "emp_city" : "Mumbai",
      "emp_salary" : 40000
      "_id" : ObjectId("5faad05465da66d36603e8ec"),
      "emp_id" : 2,
"emp_name" : "Steve",
      "emp_age" : 60,
      "emp_city" : "LA",
      "emp_salary" : 90000
```

Display employees whose name start with "B":

UPDATING VALUES IN THE COLLECTION:

SAVE method:

• Save a New Document Specifying an id Field (To avoid ObjectId):

• Replace an Existing Document

LOGICAL OPERATORS:

1. \$and:

2. \$not:

```
db.emp_info.find({"emp_age":{$not :{$lt : 40}}}).pretty()
      "_id" : ObjectId("5faad05465da66d36603e8ec"),
      "emp_id" : 2,
      "emp_name" : "Mukesh",
      "emp_age" : 60,
      "emp_city" : "New Mumbai",
      "emp_salary" : 90000
      "_id" : ObjectId("5faad07565da66d36603e8ed"),
      "emp_id" : 3,
      "emp_name" : "Jeff",
      "emp_age" : 40,
      "emp_city" : "Mumbai",
      "emp_salary" : 40000
      "_id" : 5,
      "emp_name" : "Sachin",
      "emp_age" : 47,
      "emp_city" : "Mumbai",
      "emp salary" : 80000
```

3. \$or:

```
> db.emp_info.find({$or:[{"emp_city":"New Mumbai"},{"emp_age":{$lt:40}}]}).pretty()
{
        "_id" : ObjectId("5faacfdf65da66d36603e8eb"),
        "emp_id" : 1,
        "emp_name" : "Bhavik",
        "emp_age" : 20,
        "emp_city" : "Pune",
        "emp_salary" : 50000
}
{
        "_id" : ObjectId("5faad05465da66d36603e8ec"),
        "emp_id" : 2,
        "emp_name" : "Mukesh",
        "emp_age" : 60,
        "emp_city" : "New Mumbai",
        "emp_salary" : 90000
}
{
        "_id" : ObjectId("5faad0db65da66d36603e8ee"),
        "emp_id" : 4,
        "emp_name" : "Dhoni",
        "emp_age" : 39,
        "emp_city" : "Pune",
        "emp_salary" : 99000
}
```

4. \$nor:

DISPLAY TOTAL NO OF DOCUMENTS:

```
> db.emp_info.aggregate([{$group:{_id:null,count:{$sum:1}}}])
{ "_id" : null, "count" : 5 }
```

REMOVING A VALUE FROM THE COLLECTION:

```
> db.emp_info.remove({_id:5})
WriteResult({ "nRemoved" : 1 })
> db.emp_info.find({_id:5}).pretty()
> db.emp_info.find().pretty()
        " id" : ObjectId("5faacfdf65da66d36603e8eb"),
        "emp_id" : 1,
        "emp_name" : "Bhavik",
        "emp_age" : 20,
        "emp_city" : "Pune",
        "emp_salary" : 50000
        " id" : ObjectId("5faad05465da66d36603e8ec"),
        _____id" : 2,
        "emp_name" : "Mukesh",
        "emp_age" : 60,
        "emp_city" : "New Mumbai",
        "emp salary" : 90000
        "_id" : ObjectId("5faad07565da66d36603e8ed"),
        "emp_id" : 3,
        "emp_name" : "Jeff",
        "emp_age" : 40,
        "emp city" : "Mumbai",
        "emp_salary" : 40000
        " id" : ObjectId("5faad0db65da66d36603e8ee"),
        "emp_id" : 4,
        "emp name" : "Dhoni",
        "emp_age" : 39,
        "emp_city" : "Pune",
        "emp_salary" : 99000
```