

SUSHMITHA P.A

1NT19IS170

C2

DATE: 31/3/2022

MONGO DB

SWITCHING TO MONGO

```
hdoop@admin1-HP-280-G4-MT-Business-PC:~$ mongo
MongoDB shell version v5.0.1
connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb
Implicit session: session { "id" : UUID("e6f1dc4-5bee-4efb-98bc-49849ed0d144") }
MongoDB server version: 5.0.1
=====
Warning: the "mongo" shell has been superseded by "mongosh",
which delivers improved usability and compatibility. The "mongo" shell has been deprecated and will be removed in
an upcoming release.
We recommend you begin using "mongosh".
For installation instructions, see
https://docs.mongodb.com/mongodb-shell/install/
=====
---
The server generated these startup warnings when booting:
  2022-03-31T13:36:21.001+05:30: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See http://dochub.mongodb.org/core/prodnotes-filesystem
  2022-03-31T13:36:22.817+05:30: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted
---
---
  Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).

  The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.

  To enable free monitoring, run the following command: db.enableFreeMonitoring()
  To permanently disable this reminder, run the following command: db.disableFreeMonitoring()
---
```

SWITCHING DB TO PRACTISE

```
> use practise
switched to db practise
```

SHOW DATABASE : displays all the databases

```
> show databases
admin      0.000GB
config     0.000GB
gaurav     0.000GB
local      0.000GB
rishik     0.000GB
```

CREATING COLLECTION

```
> db.createCollection("sush");
{ "ok" : 1 }
```

INSERTING VALUES

```
> db.sush.insert([{name:'emp2',address:'Mangalore',age:'22'},{name:'emp3',address:'kolar',age:'23'}])
```

READING VALUES

```
> db.sush.find()
{ "_id" : ObjectId("6245697986750b68f222748d"), "name" : "emp1", "address" : "Bangalore", "age" : "21" }
{ "_id" : ObjectId("62456b4486750b68f222748e"), "name" : "emp2", "address" : "Mangalore", "age" : "22" }
{ "_id" : ObjectId("62456b4486750b68f222748f"), "name" : "emp3", "address" : "kolar", "age" : "23" }
```

INSERT MANY

```
> db.sush.insertMany([{name:'emp4',address:'Bangalore',age:'24'},{name:'emp5',address:'ramnagar',age:'27'}])
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("62456c8886750b68f2227490"),
    ObjectId("62456c8886750b68f2227491")
  ]
}
> db.sush.find()
{ "_id" : ObjectId("6245697986750b68f222748d"), "name" : "emp1", "address" : "Bangalore", "age" : "21" }
{ "_id" : ObjectId("62456b4486750b68f222748e"), "name" : "emp2", "address" : "Mangalore", "age" : "22" }
{ "_id" : ObjectId("62456b4486750b68f222748f"), "name" : "emp3", "address" : "kolar", "age" : "23" }
{ "_id" : ObjectId("62456c8886750b68f2227490"), "name" : "emp4", "address" : "Bangalore", "age" : "24" }
{ "_id" : ObjectId("62456c8886750b68f2227491"), "name" : "emp5", "address" : "ramnagar", "age" : "27" }
```

UPDATE ONE

```
> db.sush.updateOne({name:'emp1'},{$set:{age:'30'}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.sush.find().pretty()
{
  "_id" : ObjectId("6245697986750b68f222748d"),
  "name" : "emp1",
  "address" : "Bangalore",
  "age" : "30"
}
{
  "_id" : ObjectId("62456b4486750b68f222748e"),
  "name" : "emp2",
  "address" : "Mangalore",
  "age" : "22"
}
{
  "_id" : ObjectId("62456b4486750b68f222748f"),
  "name" : "emp3",
  "address" : "kolar",
  "age" : "23"
}
{
  "_id" : ObjectId("62456c8886750b68f2227490"),
  "name" : "emp4",
  "address" : "Bangalore",
  "age" : "24"
}
{
  "_id" : ObjectId("62456c8886750b68f2227491"),
  "name" : "emp5",
  "address" : "ramnagar",
  "age" : "27"
}
```

DELETE MANY

```
> db.sush.deleteMany({address:'Bangalore'})
{ "acknowledged" : true, "deletedCount" : 2 }
> db.sush.find().pretty()
{
  "_id" : ObjectId("62456b4486750b68f222748e"),
  "name" : "emp2",
  "address" : "Mangalore",
  "age" : "22"
}
{
  "_id" : ObjectId("62456b4486750b68f222748f"),
  "name" : "emp3",
  "address" : "kolar",
  "age" : "23"
}
{ "_id" : ObjectId("62456c8886750b68f2227491"), "name" : "emp5" }
```

DELETE ONE

```
> db.sush.deleteOne({name:'emp11'})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.sush.find()
{ "_id" : ObjectId("62456b4486750b68f222748e"), "name" : "emp2", "address" : "Mangalore", "age" : "22" }
{ "_id" : ObjectId("62456b4486750b68f222748f"), "name" : "emp3", "address" : "kolar", "age" : "23" }
{ "_id" : ObjectId("62456c8886750b68f2227490"), "name" : "emp4", "address" : "Bangalore", "age" : "24" }
{ "_id" : ObjectId("62456c8886750b68f2227491"), "name" : "emp5", "address" : "ramnagar", "age" : "27" }
```

REPLACE ONE

```
> db.sush.replaceOne({name:'emp1'},{name:'emp11'})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.sush.find().pretty()
{ "_id" : ObjectId("6245697986750b68f222748d"), "name" : "emp11" }
{
  "_id" : ObjectId("62456b4486750b68f222748e"),
  "name" : "emp2",
  "address" : "Mangalore",
  "age" : "22"
}
{
  "_id" : ObjectId("62456b4486750b68f222748f"),
  "name" : "emp3",
  "address" : "kolar",
  "age" : "23"
}
{
  "_id" : ObjectId("62456c8886750b68f2227490"),
  "name" : "emp4",
  "address" : "Bangalore",
  "age" : "24"
}
{
  "_id" : ObjectId("62456c8886750b68f2227491"),
  "name" : "emp5",
  "address" : "ramnagar",
  "age" : "27"
}
```

UPDATE USING UNSET

```
> db.sush.updateOne({name:'emp5'},{$unset:{age:'27'}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.sush.find().pretty()
{
  "_id" : ObjectId("62456b4486750b68f222748e"),
  "name" : "emp2",
  "address" : "Mangalore",
  "age" : "22"
}
{
  "_id" : ObjectId("62456b4486750b68f222748f"),
  "name" : "emp3",
  "address" : "kolar",
  "age" : "23"
}
{
  "_id" : ObjectId("62456c8886750b68f2227490"),
  "name" : "emp4",
  "address" : "Bangalore",
  "age" : "24"
}
{
  "_id" : ObjectId("62456c8886750b68f2227491"),
  "name" : "emp5",
  "address" : "ramnagar"
}
```

UPDATE USING SET

```
> db.sush.updateOne({name:'emp1'},{$set:{age:'30'}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.sush.find().pretty()
{
  "_id" : ObjectId("6245697986750b68f222748d"),
  "name" : "emp1",
  "address" : "Bangalore",
  "age" : "30"
}
{
  "_id" : ObjectId("62456b4486750b68f222748e"),
  "name" : "emp2",
  "address" : "Mangalore",
  "age" : "22"
}
{
  "_id" : ObjectId("62456b4486750b68f222748f"),
  "name" : "emp3",
  "address" : "kolar",
  "age" : "23"
}
{
  "_id" : ObjectId("62456c8886750b68f2227490"),
  "name" : "emp4",
  "address" : "Bangalore",
  "age" : "24"
}
{
  "_id" : ObjectId("62456c8886750b68f2227491"),
  "name" : "emp5",
  "address" : "ramnagar",
  "age" : "27"
}
```