```
first get 3 cmd's
```

1. mongod <-mongo db, server start run

2. mongo <-

3. mongo <-open mongo shell

```
> show dbs;
admin 0.000GB
config 0.000GB
local 0.000GB
```

show databases available

```
> use test1
switched to db test1
```

create new databases, that auto metrically switch and

use.

```
> db.createUser(
... {
... user: "manjitha",
... pwd: "1995",
... roles: [ "readWrite", "dbAdmin" ]
... }
... )
```

create object user

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

create collection, like MySQL table.

```
> use Coustomers;
switched to db Coustomers
```

and use

create new databases Coustomer and switch it

> db Coustomers

check currentusing database

create object one of user

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

create collection customer

```
> db.customer.insert({firstName:"manjitha",lastName:"teshara"});
WriteResult({ "nInserted" : 1 })
```

insert into

customer to customer collection

update

customer

```
| db_customer_update({firstName:"manjitha"},{$set:{age:29}});
| witeResult({ "nMatched" | 1, "nupperter" | 8, "nPodified" | 1 )}
| db_customer.find();
| db_customer.find();
| ("_id" | ObjectId("Sba9d90615998a4d78034c12"), "firstName" | "manjitha", "lastName" | "Tashara", "phone" | "0723197339", "age" | 20 )
| ("_id" | ObjectId("Sba9d90615998a4d78034c13"), "firstName" | "disska", "lastName" | "kasun" )
| ("_id" | ObjectId("Sba9d90615998a4d78034c14"), "firstName" | "ishar", "lastName" | "vinod", "phone" | "0712112582585" )
| $set using
```

\$inc using

```
b db.customer.updste({firstName:"semjitha"},{$unset:[age:1}));
uniteResult({ "mNatched" | 1, "mUpperted" | 0, "nNodified" | 1 })
b db.customer.fine();
{ "_id" | ObjectId("Sba9d99c135980a6d78834c12"), "firstName" | "manjithe", "lastName" | "Teshara", "phone" | "8723197339" }
{ "_id" | ObjectId("Sba9d99c135980a6d78834c12"), "firstName" | "diruka", "lastName" | "kasun" }
{ "_id" | ObjectId("Sba9d9d4255980a6d78834c14"), "firstName" | "ishan", "lastName" | "knod", "phone" | "8722112582585" }

remo
```

remove, as unset

field age

If some time searching key not in collection we can use {upsert:true} for insert given value to collection

Remove customer from collection.

```
db.sustoner.find();

("_id" : CojectId("SbandsBc15990a4d78834c12"), "firstName" : "manjithe", "lastName" : "Techara", "prone" : "0723187330" )

("_id" : CojectId("Sbands7615990a4d78034c13"), "firstName" : "dinuka", "lastName" : "Kasun" )

("_id" : CojectId("Sbands8bd384lce66135c100"), "firstName" : "manjitha", "lastName" : "Techara", "prone" : "0723187330" )
```

.find() can get all data in collection linke select\*fom tableName in sql

```
db.customer.find((firstName:"manjitha"));
( "_id" : ObjectId("5ba9d90c25990a4d78034c12"), "firstName" : "manjitha", "lastName" : "Teshara", "phone" : "0723197339" }
{ "_id" : ObjectId("5ba9e58b05841ce66135c1b0"), "firstName" : "manjitha", "lastName" : "Teshara", "phone" : "0723197339" }
>
```

.find(argument) get attribute form collection like "select \* from tableName where firstName="manjitha";"

in sql

```
db.gustomer.find();
("id": ObjectId("Shand99613390a4d78034c12"), "firstName" | "manjithe", "lestName" | "Taphere", "phone" | "0725197339" )
("id": ObjectId("Shand97613390a4678034c13"), "firstName" | "dimuka", "lestName" | "kasun" )
("id": ObjectId("Shand97613390a461205135c1b0"), "firstName" | "manjithe", "lastName" | "Taphere", "phone" | "0725197338" )

db.gustomer.find((Sar:[{firstName:"manjithe"), (firstName:"dimuke")]);
("id": ObjectId("Shand980723900a4678034c12"), "firstName" | "manjithe", "lastName" | "Taphere", "phone" | "0725197338" )
("id": ObjectId("Shand97623900a4678034c13"), "firstName" | "dimuka", "lastName" | "kasun" )
("id": ObjectId("Shand97623900a4478034c13"), "firstName" | "manjithe", "lastName" | "kasun" )
```

Or operater in mongodb ,like select \* from tableName where firstName="manjitha" or firstName="dinuka";

```
> db.customer.remove({firstName:"manjitha"},{justOne:true});
WriteResult({ "nRemoved" : 1 })
> db.customer.find();
{ "_id" : ObjectId("Sba9d97625998a4d78834c13"), "firstName" : "dinuka", "lastName" : "kasun" }
{ "_id" : ObjectId("Sba9e58b95841ce56135c1b8"), "firstName" : "manjitha", "lastName" : "Teshara", "phone" : "8723197339" }
> +
```

One elemet remove in same key

\$It this mean less than.

\$Ite this is less than or equal

```
> db.customer.find().sort({firstName:1});
{ "_id" : ObjectId("5ba9ed4625990a4d78034c15"), "firstName" : "asitha", "phone" : "0712582585", "age" : 35 }
{ "_id" : ObjectId("5ba9d97625990a4d78034c13"), "firstName" : "dinuka", "lastName" : "kasun", "age" : 23 }
{ "_id" : ObjectId("5ba9e58b05841ce66135c1b0"), "firstName" : "manjitha", "lastName" : "feshara", "phone" : "0723197339", "age" : 18 }
{ "_id" : ObjectId("5ba9ed6d25990a4d78034c16"), "firstName" : "pasindu", "phone" : "0785158158", "age" : 30 }
}
```

Sort by asender order firstName

Sort by desender order by firstName, just need change 1 to -1 in .sort({firstName:-1})

We can use mongoose for maina tain database schema visibaly