```
> show dbs
       0.000GB
admin
config
         0.000GB
exercise 0.000GB
local
        0.000GB
maktab 0.000GB
> use tamrin
switched to db tamrin
> db
tamrin
> db.member.insertOne({"name":"deli", "city":"tehran", "age":24})
        "acknowledged" : true,
        "insertedId" : ObjectId("61839450e20b5a92423ed072")
> db.member.insertOne({"name":"fateme", "city":"zanjan", "age":26})
        "acknowledged" : true,
        "insertedId" : ObjectId("6183945fe20b5a92423ed073")
> db.member.insertOne({"name":"azade", "city":"hamedan", "age":42})
        "acknowledged" : true,
        "insertedId": ObjectId("61839479e20b5a92423ed074")
}
> db.member.find().pretty()
{
        " id" : ObjectId("61839450e20b5a92423ed072"),
       "name" : "deli",
        "city" : "tehran",
        "age" : 24
}
{
       " id" : ObjectId("6183945fe20b5a92423ed073"),
       "name" : "fateme",
        "city" : "zanjan",
        "age" : 26
}
{
        " id" : ObjectId("61839479e20b5a92423ed074"),
       "name" : "azade",
        "city" : "hamedan",
        "age" : 42
> db.member.insertOne({"name":"sara", "city":"shiraz", "age":22})
        "acknowledged" : true,
        "insertedId" : ObjectId("618394a3e20b5a92423ed075")
}
> db.member.findOne({"name":"deli"})
        " id" : ObjectId("61839450e20b5a92423ed072"),
       "name" : "deli",
        "city" : "tehran",
        "age" : 24
> db.member.insertOne({"name":"sara", "city":"mashhad", "age":20})
```

```
{
       "acknowledged" : true,
       "insertedId" : ObjectId("618394e5e20b5a92423ed076")
> db.member.insertOne({"name":"mahsa", "city":"mashhad", "age":10})
{
       "acknowledged" : true,
       "insertedId" : ObjectId("6183950ce20b5a92423ed077")
> db.member.find({"age":"$eq:20"})
> db.member.find({"age":{"$eq:20"}})
uncaught exception: SyntaxError: missing : after property id :
@(shell):1:31
> db.member.find({"age": {$eq:20}})
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find({"age": {$gt:22}})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ " id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
> db.member.find({$or:[{"city":"mashhad"}, {"age":{$gt:20}}]})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
{ "id": ObjectId("6183950ce20b5a92423ed077"), "name": "mahsa", "city":
"mashhad", "age" : 10 }
> db.member.find({$or:[{"city":"mashhad"}, {"age":{$lt:22}}]})
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
{ "id": ObjectId("6183950ce20b5a92423ed077"), "name": "mahsa", "city":
"mashhad", "age" : 10 }
> db.member.find({$or:[{"city":"mashhad"}, {"age":{$lt:24}}]})
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
{ "id": ObjectId("6183950ce20b5a92423ed077"), "name": "mahsa", "city":
"mashhad", "age" : 10 }
> db.member.find({$or:[{"city":"mashhad"}, {"age":{$in:[20,22,24]}}]})
{ " id" : ObjectId("61839450e20b5a92423ed072"), "name" : "deli", "city" :
"tehran", "age" : 24 }
{ "_id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
{ " id" : ObjectId("6183950ce20b5a92423ed077"), "name" : "mahsa", "city" :
"mashhad", "age" : 10 }
```

```
> db.member.find(($and:[{"city":"mashhad"}, {"age":{$in:[20,22,24]}}]))
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.updateOne({"age":10}, {$set:{"age":18}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.member.fi
tamrin.member.fi
> db.member.find()
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ " id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
{ "id": ObjectId("6183950ce20b5a92423ed077"), "name": "mahsa", "city":
"mashhad", "age" : 18 }
> db.member.remove({"name":"mahsa"}))
uncaught exception: SyntaxError: missing ) after argument list :
@(shell):1:33
> db.member.remove({"name":"mahsa"})
WriteResult({ "nRemoved" : 1 })
> db.member.find()
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ "_id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find().limit(3)
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ " id" : ObjectId("6183945fe20b5a92423ed073"), "name" : "fateme", "city" :
"zanjan", "age" : 26 }
{ " id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
> db.member.find().limit(3).skip(2)
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find().limit(3).skip(2).sort({"age":1})
{ " id" : ObjectId("61839450e20b5a92423ed072"), "name" : "deli", "city" :
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
```

```
> db.member.find({"age": {$gt:25}})
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
> db.member.find({"age":{$not:{$qt:25}}})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find(($nor:[{"name":"fateme"}, {"city":"zanjan"}]})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ " id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find(($nor:[{"name":"fateme"}, {"city":"tehran"}]})
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find({$not:{$nor:[{"name":"fateme"}, {"city":"tehran"}]}})
Error: error: {
       "ok" : 0,
       "errmsg" : "unknown top level operator: $not",
       "code" : 2,
       "codeName" : "BadValue"
> db.member.find(($not:[{"name":"fateme"}, {"city":"tehran"}]})
Error: error: {
       "ok" : 0,
       "errmsg": "unknown top level operator: $not",
       "code" : 2,
       "codeName" : "BadValue"
> db.member.find({$or:[{"name":"fateme"}, {"city":"tehran"}]})
{ " id" : ObjectId("61839450e20b5a92423ed072"), "name" : "deli", "city" :
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
> db.member.find({$not:{$nor:[{"name":"fateme"}, {"city":"tehran"}]}})
Error: error: {
       "ok" : 0,
       "errmsg" : "unknown top level operator: $not",
       "code" : 2,
       "codeName" : "BadValue"
> db.member.find({$not:[{$nor:[{"name":"fateme"}, {"city":"tehran"}]}]})
Error: error: {
       "ok" : 0,
```

```
"errmsg" : "unknown top level operator: $not",
        "code" : 2,
        "codeName" : "BadValue"
}
> db.member.find({$or:[{"name":"fateme"}, {"city":"tehran"}]})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
> db.member.find({$not:[{"name":"fateme"}]})
Error: error: {
       "ok" : 0,
       "errmsq": "unknown top level operator: $not",
        "code" : 2,
       "codeName" : "BadValue"
> db.member.find({$not:[{"name":"fateme"}, {"age":20}]})
Error: error: {
       "ok" : 0,
       "errmsq" : "unknown top level operator: $not",
       "code" : 2,
        "codeName" : "BadValue"
> db.member.find({$not:[{$and:[{"name":"fateme"}, {"city":"zanjan"}]}]})
Error: error: {
       "ok" : 0,
       "errmsg": "unknown top level operator: $not",
       "code" : 2,
       "codeName" : "BadValue"
}
> db.member.find([{$and:[{"name":"fateme"}, {"city":"zanjan"}]})
uncaught exception: SyntaxError: missing ] after element list :
@(shell):1:61
> db.member.find({$and:[{"name":"fateme"}, {"city":"zanjan"}]})
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
> db.member.find({$not:[{$and:[{"name":"fateme"}, {"city":"zanjan"}]}]})
Error: error: {
       "ok" : 0,
       "errmsq": "unknown top level operator: $not",
        "code" : 2,
       "codeName" : "BadValue"
> db.member.find({$not:{$and:[{"name":"fateme"}, {"city":"zanjan"}]}})
Error: error: {
       "ok" : 0,
       "errmsg" : "unknown top level operator: $not",
       "code" : 2,
       "codeName" : "BadValue"
> db.member.find({$not:[{"name":"fateme"}]})
Error: error: {
       "ok" : 0,
       "errmsg": "unknown top level operator: $not",
        "code" : 2,
        "codeName" : "BadValue"
```

```
> db.member.find({$not:{"name":"fateme"}})
Error: error: {
       "ok" : 0,
       "errmsg": "unknown top level operator: $not",
       "code" : 2,
       "codeName" : "BadValue"
}
> db.member.find({"name":{$not:"fateme"}})
Error: error: {
       "ok" : 0,
       "errmsg": "$not needs a regex or a document",
       "code" : 2,
       "codeName" : "BadValue"
> db.member.find({"name":{$not:{"fateme"}}})
uncaught exception: SyntaxError: missing : after property id :
@(shell):1:38
> db.member.find({"name":{$not:{$eq:"fateme"}}})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ " id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find({"city":{$not:{$eq:"zanjan"}}})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "_id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find({"name":{$not:{$eq:"fateme"}},
"city":{$not:{$eq:"zanjan"}}))
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "citv" :
"mashhad", "age" : 20 }
> db.member.find()
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ "_id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
```

```
> db.member.find({"name":{$not:{$eq:"fateme"}}},
"city":{$not:{$eq:"hamedan"}}})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find(($nor:[{"name:"fateme"}, {"city":"hamedan"}]})
uncaught exception: SyntaxError: missing : after property id :
@(shell):1:30
> db.member.find({$nor:[{"name":"fateme"}, {"city":"hamedan"}]})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find({"name":{$not:{$eq:"fateme"}},
"city": { $not: { $eq: "hamedan" } } })
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find({$or:[{"name":{$not:{$eq:"fateme"}},
"city": { $not: { $eq: "hamedan" } } ] })
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ "id": ObjectId("618394e5e20b5a92423ed076"), "name": "sara", "city":
"mashhad", "age" : 20 }
> db.member.find({\$or:[{\"name":{\$not:{\$eq:\"fateme"}},
"city": { $not: { $eq: "zanjan" } } } } })
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.m
tamrin.m
> db.member.find()
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ " id" : ObjectId("6183945fe20b5a92423ed073"), "name" : "fateme", "city" :
"zanjan", "age" : 26 }
{ "_id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
```

```
> db.member.find({$or:[{"name":{$not:{$eq:"fateme"}}},
"city":{$not:{$eq:"hamedan"}}, {"age":20}]})
... db.member.find({"name":{$not:{$eq:"fateme"}},
"city":{$not:{$eq:"hamedan"}}})
uncaught exception: SyntaxError: expected property name, got '{':
@(shell):1:83
> db.member.find({$or:[{"name":{$not:{$eq:"fateme"}}}},
{"city":{$not:{$eq:"zanjan"}}}]})
{ " id" : ObjectId("61839450e20b5a92423ed072"), "name" : "deli", "city" :
"tehran", "age" : 24 }
{ " id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find({$or:[{"name":{$not:{$eq:"fateme"}}}},
{"city":{$not:{$eq:"hamedan"}}}]})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ "id": ObjectId("6183945fe20b5a92423ed073"), "name": "fateme", "city":
"zanjan", "age" : 26 }
{ "id": ObjectId("61839479e20b5a92423ed074"), "name": "azade", "city":
"hamedan", "age" : 42 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find({$and:[{"name":{$not:{$eq:"fateme"}}}},
{"city":{$not:{$eq:"hamedan"}}}]))
{ " id" : ObjectId("61839450e20b5a92423ed072"), "name" : "deli", "city" :
"tehran", "age" : 24 }
{ "id": ObjectId("618394a3e20b5a92423ed075"), "name": "sara", "city":
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find({$nor:[{"name":"fateme"}, {"city":"hamedan"}]})
{ "id": ObjectId("61839450e20b5a92423ed072"), "name": "deli", "city":
"tehran", "age" : 24 }
{ " id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" :
"shiraz", "age" : 22 }
{ " id" : ObjectId("618394e5e20b5a92423ed076"), "name" : "sara", "city" :
"mashhad", "age" : 20 }
> db.member.find({$or:[{"name":{$not:{$eq:"fateme"}}}},
{"city":{$not:{$eq:"zanjan"}}}]})
{ " id" : ObjectId("61839450e20b5a92423ed072"), "name" : "deli", "city" :
"tehran", "age" : 24 }
{ " id" : ObjectId("61839479e20b5a92423ed074"), "name" : "azade", "city" :
"hamedan", "age" : 42 }
{ "_id" : ObjectId("618394a3e20b5a92423ed075"), "name" : "sara", "city" : "shiraz", "age" : 22 }
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"mashhad", "age" : 20 }
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