

1. Show DBS

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

2. Change DB

```
> use techmentlearning
switched to db techmentlearning
```

3. Create collection

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

```
> show collections
employee
```

```
> db.address.drop()
true
> show collections
employee
student
```

4. Insert document

```
> db.employee.insert( { "name":"ravi", "dept":"cse" })
WriteResult({ "nInserted" : 1 })
> db.employee.insert( { "name":"rahul", "dept":"mech" })
WriteResult({ "nInserted" : 1 })
> db.employee.find()
{ "_id" : ObjectId("5ed5d8d7e00e199b7793c459"), "name" : "ravi", "dept" : "cse" }
{ "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"), "name" : "rahul", "dept" : "mech" }
```

5. Display document

```
> db.employee.find().pretty()
{
  "_id" : ObjectId("5ed5d8d7e00e199b7793c459"),
  "name" : "ravi",
  "dept" : "cse"
}
{
  "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"),
  "name" : "rahul",
  "dept" : "mech"
}
> db.employee.find({"name":"mech"}).pretty()
> db.employee.find({"name":"cse"}).pretty()
> db.employee.find({"name":"cse"}).pretty()
> db.employee.find({"_id":{"$eq:1"}}).pretty()
{ "_id" : 1, "name" : "rahul", "dept" : "mech" }
> db.employee.find({"_id":{"$gt:1"}}).pretty()
{ "_id" : 2, "name" : "ramesh", "dept" : "mech" }
```

```
> show collections
employee
student
```

```
> db.createCollection("emp10")
{ "ok" : 1 }
> db.emp10.insert( { "_id":1, "name":"rahul", "dept":"hr","salary":100000,"age":21})
WriteResult({ "nInserted" : 1 })
> db.emp10.insert( { "_id":2, "name":"ubair", "dept":"dev","salary":100000,"age":23})
WriteResult({ "nInserted" : 1 })
> db.emp10.insert( { "_id":3, "name":"pooja", "dept":"hr","salary":200000,"age":25})
WriteResult({ "nInserted" : 1 })
> db.emp10.insert( { "_id":4, "name":"nalesh", "dept":"dev","salary":300000,"age":30})
WriteResult({ "nInserted" : 1 })
> db.emp10.find().pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find({"_id":{"$gt:1}}).pretty()
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
```

```

    "_id" : 3,
    "name" : "pooja",
    "dept" : "hr",
    "salary" : 200000,
    "age" : 25
  }
  {
    "_id" : 4,
    "name" : "nalesh",
    "dept" : "dev",
    "salary" : 300000,
    "age" : 30
  }
> db.emp10.find({"_id":{$lt:4}}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
> db.emp10.find({"_id":{$eq:3}}).pretty()
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
> db.emp10.find({"_id":{$gte:3}}).pretty()
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{

```

```

    "_id" : 4,
    "name" : "nalesh",
    "dept" : "dev",
    "salary" : 300000,
    "age" : 30
  }
> db.emp10.find({"_id":{"$lte:3}}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
> db.emp10.find({"name":"rahul" , "name":"ubair"})
{ "_id" : 2, "name" : "ubair", "dept" : "dev", "salary" : 100000, "age" : 23 }
> db.emp10.find({"name":"rahul" , "name":"ubair"}).pretty()
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}

> db.emp10.find({"name":"ubair", "name":"rahul"}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}

> db.emp10.find({$or:[{"name":"ubair"}, {"name":"rahul"}]}).pretty()
{
  "_id" : 1,
  "name" : "rahul",

```

```

    "dept" : "hr",
    "salary" : 100000,
    "age" : 21
  }
  {
    "_id" : 2,
    "name" : "ubair",
    "dept" : "dev",
    "salary" : 100000,
    "age" : 23
  }
}
> db.emp10.find({$or:[{name:"ubair"}, {name:"rahul"}]}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
}
> db.emp10.find()
{ "_id" : 1, "name" : "rahul", "dept" : "hr", "salary" : 100000, "age" : 21 }
{ "_id" : 2, "name" : "ubair", "dept" : "dev", "salary" : 100000, "age" : 23 }
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }

> db.emp10.find({$or:[{"name":"ubair"}, {"name":"rahul"}]}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
}
> db.emp10.find({"name":"ubair", "name":"rahul"}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,

```

```

    "age" : 21
  }
> db.emp10.find({$or:[{"name":"ubair"}, {"name":"rahul"}] , "_id":1}).pretty()

{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
> db.emp10.find({$not:[{"name":"ubair"}] , "_id":3}).pretty()
Error: error: {
  "ok" : 0,
  "errmsg" : "unknown top level operator: $not",
  "code" : 2,
  "codeName" : "BadValue"

}

> db.emp10.find({}, {"_id":1, "name":1}).pretty()
{ "_id" : 1, "name" : "rahul" }
{ "_id" : 2, "name" : "ubair" }
{ "_id" : 3, "name" : "pooja" }
{ "_id" : 4, "name" : "nalesh" }
> db.emp10.find({}, {"name":1}).pretty()
{ "_id" : 1, "name" : "rahul" }
{ "_id" : 2, "name" : "ubair" }
{ "_id" : 3, "name" : "pooja" }
{ "_id" : 4, "name" : "nalesh" }
> db.emp10.find({}, {"_id":0, "name":1}).pretty()
{ "name" : "rahul" }
{ "name" : "ubair" }
{ "name" : "pooja" }
{ "name" : "nalesh" }
> db.emp10.find({}, {"_id":0, "name":1, "dept":1}).pretty()
{ "name" : "rahul", "dept" : "hr" }
{ "name" : "ubair", "dept" : "dev" }
{ "name" : "pooja", "dept" : "hr" }
{ "name" : "nalesh", "dept" : "dev" }
> db.emp10.find({}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}

```

```

}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find().limit(2).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
> db.emp10.find().limit().pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}

```

```

{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find().limit(1).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
> db.emp10.find().sort({"_id":1}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find().sort({"_id":-1}).pretty()
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}

```



```

{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
> db.emp10.find().sort({"_id":-1}).limit
function (limit) {
  this._checkModify();
  this._limit = limit;
  return this;
}
> db.emp10.find().sort({"_id":-1}).limit(2)
{ "_id" : 4, "name" : "nalesh", "dept" : "dev", "salary" : 300000, "age" : 30 }
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }

```

```

> show dbs
admin          0.000GB
config         0.000GB
emp            0.000GB
local          0.000GB
techmentlearning 0.000GB
> show collections
employee
> db.createCollection("student")
{ "ok" : 1 }
> show collections
employee
student
> db.createCollection("address")
{ "ok" : 1 }
> show collections
address
employee
student
> db.address.drop()

```

```

true
> show collections
employee
student
> db.employee.insert(
...
... "name":"ravi",
... "dept":"cse")
2020-06-02T10:12:45.684+0530 E QUERY [thread1] SyntaxError: missing ) after argument list
@(shell):3:6
> db.employee.insert( { "name":"ravi", "dept":"cse"})
WriteResult({ "nInserted" : 1 })
> db.employee.insert( { "name":"rahul", "dept":"mech"})
WriteResult({ "nInserted" : 1 })
> db.employee.find()
{ "_id" : ObjectId("5ed5d8d7e00e199b7793c459"), "name" : "ravi", "dept" : "cse" }
{ "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"), "name" : "rahul", "dept" : "mech" }
> db.employee.find().pretty()
{
  "_id" : ObjectId("5ed5d8d7e00e199b7793c459"),
  "name" : "ravi",
  "dept" : "cse"
}
{
  "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"),
  "name" : "rahul",
  "dept" : "mech"
}
> db.employee.insert( { "_id":1, "name":"rahul", "dept":"mech"})
WriteResult({ "nInserted" : 1 })
> db.employee.find().pretty()
{
  "_id" : ObjectId("5ed5d8d7e00e199b7793c459"),
  "name" : "ravi",
  "dept" : "cse"
}
{
  "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"),
  "name" : "rahul",
  "dept" : "mech"
}
{ "_id" : 1, "name" : "rahul", "dept" : "mech" }
> db.employee.insert( { "_id":1, "name":"rah", "dept":"mech"})
WriteResult({
  "nInserted" : 0,
  "writeError" : {
    "code" : 11000,
    "errmsg" : "E11000 duplicate key error collection: techmentlearning.employee index: _id_
dup key: { : 1.0 }"
  }
})
> db.employee.insert( { "_id":2, "name":"ramesh", "dept":"mech"})

```

```

WriteResult({ "nInserted" : 1 })
> db.employee.find().pretty()
{
  "_id" : ObjectId("5ed5d8d7e00e199b7793c459"),
  "name" : "ravi",
  "dept" : "cse"
}
{
  "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"),
  "name" : "rahul",
  "dept" : "mech"
}
{ "_id" : 1, "name" : "rahul", "dept" : "mech" }
{ "_id" : 2, "name" : "ramesh", "dept" : "mech" }
> db.employee.find({"name":"rahul"}).pretty()
{
  "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"),
  "name" : "rahul",
  "dept" : "mech"
}
{ "_id" : 1, "name" : "rahul", "dept" : "mech" }
> db.employee.find()
{ "_id" : ObjectId("5ed5d8d7e00e199b7793c459"), "name" : "ravi", "dept" : "cse" }
{ "_id" : ObjectId("5ed5d8f5e00e199b7793c45a"), "name" : "rahul", "dept" : "mech" }
{ "_id" : 1, "name" : "rahul", "dept" : "mech" }
{ "_id" : 2, "name" : "ramesh", "dept" : "mech" }
> db.employee.find({"name":"mech"}).pretty()
> db.employee.find({"name":"cse"}).pretty()
> db.employee.find({"name":"cse"}).pretty()
> db.employee.find({"_id":{"$eq:1"}}).pretty()
{ "_id" : 1, "name" : "rahul", "dept" : "mech" }
> db.employee.find({"_id":{"$gt:1"}}).pretty()
{ "_id" : 2, "name" : "ramesh", "dept" : "mech" }
> show collections
employee
student
> db.insertCollection().emp10
2020-06-02T10:31:52.189+0530 E QUERY [thread1] TypeError: db.insertCollection is not a
function :
@(shell):1:1
> db.createCollection("emp10")
{ "ok" : 1 }
> db.emp10.insert( {"_id":1, "name":"rahul", "dept":"hr","salary":100000,"age":21})
WriteResult({ "nInserted" : 1 })
> db.emp10.insert( {"_id":2, "name":"ubair", "dept":"dev","salary":100000,"age":23})
WriteResult({ "nInserted" : 1 })
> db.emp10.insert( {"_id":3, "name":"pooja", "dept":"hr","salary":200000,"age":25})
WriteResult({ "nInserted" : 1 })
> db.emp10.insert( {"_id":4, "name":"nalesh", "dept":"dev","salary":300000,"age":30})
WriteResult({ "nInserted" : 1 })
> db.emp10.find().pretty()
{

```

```

    "_id" : 1,
    "name" : "rahul",
    "dept" : "hr",
    "salary" : 100000,
    "age" : 21
  }
  {
    "_id" : 2,
    "name" : "ubair",
    "dept" : "dev",
    "salary" : 100000,
    "age" : 23
  }
  {
    "_id" : 3,
    "name" : "pooja",
    "dept" : "hr",
    "salary" : 200000,
    "age" : 25
  }
  {
    "_id" : 4,
    "name" : "nalesh",
    "dept" : "dev",
    "salary" : 300000,
    "age" : 30
  }
}
> db.emp10.find({"_id":{"$gt:1}}).pretty()
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find({"_id":{"$lt:4}}).pretty()
{
  "_id" : 1,

```

```

    "name" : "rahul",
    "dept" : "hr",
    "salary" : 100000,
    "age" : 21
  }
  {
    "_id" : 2,
    "name" : "ubair",
    "dept" : "dev",
    "salary" : 100000,
    "age" : 23
  }
  {
    "_id" : 3,
    "name" : "pooja",
    "dept" : "hr",
    "salary" : 200000,
    "age" : 25
  }
}
> db.emp10.find({"_id":{$eq:3}}).pretty()
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
> db.emp10.find({"_id":{$gte:3}}).pretty()
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find({"_id":{$lte:3}}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,

```

```

    "name" : "ubair",
    "dept" : "dev",
    "salary" : 100000,
    "age" : 23
  }
  {
    "_id" : 3,
    "name" : "pooja",
    "dept" : "hr",
    "salary" : 200000,
    "age" : 25
  }
> db.emp10.find({"name":"rahul" , "name":"ubair"})
{ "_id" : 2, "name" : "ubair", "dept" : "dev", "salary" : 100000, "age" : 23 }
> db.emp10.find({"name":"rahul" , "name":"ubair"}).pretty()
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}

> db.emp10.find({"name":"ubair", "name":"rahul"}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}

> db.emp10.find({$or:[{"name":"ubair"}, {"name":"rahul"}]}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
> db.emp10.find({$or:[{name:"ubair"}, {name:"rahul"}]}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",

```

```

    "salary" : 100000,
    "age" : 21
  }
  {
    "_id" : 2,
    "name" : "ubair",
    "dept" : "dev",
    "salary" : 100000,
    "age" : 23
  }
> db.emp10.find()
{ "_id" : 1, "name" : "rahul", "dept" : "hr", "salary" : 100000, "age" : 21 }
{ "_id" : 2, "name" : "ubair", "dept" : "dev", "salary" : 100000, "age" : 23 }
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }
> db.emp10.find({$or:[{"name":"ubair"}, {"name":"rahul"}]}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
> db.emp10.find({"name":"ubair", "name":"rahul"}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
> db.emp10.find({$or:[{"name":"ubair"}, {"name":"rahul"}] , "_id":1}).pretty()

{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}

> db.emp10.find({}, {"_id":1, "name":1}).pretty()
{ "_id" : 1, "name" : "rahul" }
{ "_id" : 2, "name" : "ubair" }
{ "_id" : 3, "name" : "pooja" }

```

```

{ "_id" : 4, "name" : "nalesh" }
> db.emp10.find({}, {"name":1}).pretty()
{ "_id" : 1, "name" : "rahul" }
{ "_id" : 2, "name" : "ubair" }
{ "_id" : 3, "name" : "pooja" }
{ "_id" : 4, "name" : "nalesh" }
> db.emp10.find({}, {"_id":0, "name":1}).pretty()
{ "name" : "rahul" }
{ "name" : "ubair" }
{ "name" : "pooja" }
{ "name" : "nalesh" }
> db.emp10.find({}, {"_id":0, "name":1, "dept":1}).pretty()
{ "name" : "rahul", "dept" : "hr" }
{ "name" : "ubair", "dept" : "dev" }
{ "name" : "pooja", "dept" : "hr" }
{ "name" : "nalesh", "dept" : "dev" }
> db.emp10.find({}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find().limit(2).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}

```



```

}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
> db.emp10.find().limit().pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find().limit(1).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
> db.emp10.find().sort({"_id":1}).pretty()
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}

```

```

}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
> db.emp10.find().sort({"_id":-1}).pretty()
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}

```

```
> db.emp10.find().sort({"_id":-1}).limit(2)
{ "_id" : 4, "name" : "nalesh", "dept" : "dev", "salary" : 300000, "age" : 30 }
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }
```

```
> db.emp10.find().sort({"_id":-1}).limit(2).sort({"_id":1}).pretty()
```

```
> db.emp10.find().skip(2)
```

```
> db.emp10.find().skip(2)
```

```
> show dbs
```

```
admin          0.000GB
```

```
config         0.000GB
```

```
emp            0.000GB
```

```
local          0.000GB
```

```
techmentlearning 0.000GB
```

```
> use techmentlearning
```

```
switched to db techmentlearning
```

```
> db.emp10.find().skip(2)
```

```
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }
```

```
{ "_id" : 4, "name" : "nalesh", "dept" : "dev", "salary" : 300000, "age" : 30 }
```

```
> db.emp10.find().skip(2).sort({"_id":1}).pretty()
```

```
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
```

```
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
```

```
> db.emp10.find().skip(2).sort({"_id":-1}).pretty()
```

```
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
```

```
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}
```

```
> db.emp10.find().sort({"_id":-1}).skip().pretty()
```

```
{
  "_id" : 4,
```

```

    "name" : "nalesh",
    "dept" : "dev",
    "salary" : 300000,
    "age" : 30
  }
  {
    "_id" : 3,
    "name" : "pooja",
    "dept" : "hr",
    "salary" : 200000,
    "age" : 25
  }
  {
    "_id" : 2,
    "name" : "ubair",
    "dept" : "dev",
    "salary" : 100000,
    "age" : 23
  }
  {
    "_id" : 1,
    "name" : "rahul",
    "dept" : "hr",
    "salary" : 100000,
    "age" : 21
  }
> db.emp10.find().skip().sort({"_id":-1}).pretty()
{
  "_id" : 4,
  "name" : "nalesh",
  "dept" : "dev",
  "salary" : 300000,
  "age" : 30
}
{
  "_id" : 3,
  "name" : "pooja",
  "dept" : "hr",
  "salary" : 200000,
  "age" : 25
}
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",

```

```

    "salary" : 100000,
    "age" : 21
  }
> db.emp10.find().skip(2).sort({"_id":-1}).pretty()
{
  "_id" : 2,
  "name" : "ubair",
  "dept" : "dev",
  "salary" : 100000,
  "age" : 23
}
{
  "_id" : 1,
  "name" : "rahul",
  "dept" : "hr",
  "salary" : 100000,
  "age" : 21
}

> db.emp10.find()
{ "_id" : 1, "name" : "ubair", "dept" : "hr", "salary" : 100000, "age" : 21 }
{ "_id" : 2, "name" : "ubair", "dept" : "dev", "salary" : 100000, "age" : 23 }
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }
{ "_id" : 4, "name" : "nalesh", "dept" : "dev", "salary" : 300000, "age" : 30 }
> db.emp10.remove({'_id':1})
2020-06-02T12:58:10.470+0530 E QUERY [thread1] SyntaxError: missing : after property id
@(@shell):1:24
> db.emp10.remove({'_id':1})
WriteResult({ "nRemoved" : 1 })
> db.emp10.find()
{ "_id" : 2, "name" : "ubair", "dept" : "dev", "salary" : 100000, "age" : 23 }
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }
{ "_id" : 4, "name" : "nalesh", "dept" : "dev", "salary" : 300000, "age" : 30 }
> db.emp10.aggregate({
... $group:
... {
...   "_id":"$dept",
...   "total":{"$sum":"$sal"},
...   "average":{"$avg":"$salary"}
... }
... )
... )
2020-06-02T13:07:37.424+0530 E QUERY [thread1] SyntaxError: missing } after property list
@(@shell):8:0
> db.emp10.aggregate({ $group: { "_id":"$dept", "total":{"$sum":"$salary"}, "average":
{$avg:"$salary"} } })
2020-06-02T13:07:53.688+0530 E QUERY [thread1] SyntaxError: missing } after property list
@(@shell):1:101
> db.emp10.aggregate({ $group: { "_id":"$dept", "total":{"$sum":"$salary"}, "average":
{$avg:"$salary"} }} )
{ "_id" : "hr", "total" : 200000, "average" : 200000 }
{ "_id" : "dev", "total" : 400000, "average" : 200000 }

```

```

> db.emp10.find()
{ "_id" : 2, "name" : "ubair", "dept" : "dev", "salary" : 100000, "age" : 23 }
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }
{ "_id" : 4, "name" : "nalesh", "dept" : "dev", "salary" : 300000, "age" : 30 }
> db.emp10.aggregate({$group:
... {_id:"$dept",
... "min":{$min:'salary'},
... max:{$max:'salary'}
... })
{ "_id" : "hr", "min" : "salary", "max" : "salary" }
{ "_id" : "dev", "min" : "salary", "max" : "salary" }

> db.emp10.aggregate({$group: {_id:"$dept", "min":{$min:"$salary"}, max:{$max:"$salary"},
"avg":{$avg:"$salary"} } })
{ "_id" : "hr", "min" : 200000, "max" : 200000, "avg" : 200000 }
{ "_id" : "dev", "min" : 100000, "max" : 300000, "avg" : 200000 }
> db.emp10.aggregate(
... {$match:{"_id":{$gt:2}}})
{ "_id" : 3, "name" : "pooja", "dept" : "hr", "salary" : 200000, "age" : 25 }
{ "_id" : 4, "name" : "nalesh", "dept" : "dev", "salary" : 300000, "age" : 30 }
> db.student.aggregate(
... [{$match:{"_id":{$gt:2}}})
... )

> db.emp10.aggregate( [{$match:{"_id":{$gt:3}}}, {$group:{"_id":"$dept","countofemployee":
{$sum:1}}}] );
{ "_id" : "dev", "countofemployee" : 1 }

```