

```
> show dbs;

admin 0.000GB
collage 0.000GB
config 0.000GB
local 0.000GB

> use student

switched to db student

> db.createCollection("stud")

{ "ok" : 1 }

> db.stud.insertMany(

... [
... {
... "SRN":101,
... "sname":"Ansiya",
... "Degree":"MCA",
... "Sem":"2",
... "CGPA":9.6
... },
... {
... "SRN":102,
... "sname":"Suhail",
... "Degree":"MCA",
... "Sem":"4",
... "CGPA":9.7
... },
... {
... "SRN":103,
... "sname":"Sahal",
... "Degree":"MCA",
... "Sem":"3",
... "CGPA":8.2
```

```
... },  
... {  
... "SRN":104,  
... "sname":"Afsal",  
... "Degree":"BCA",  
... "Sem":"6",  
... "CGPA":9.5  
... },  
... {  
... "SRN":105,  
... "sname":"Fathimi",  
... "Degree":"BCA",  
... "Sem":"1",  
... "CGPA":8.8  
... },  
... {  
... "SRN":106,  
... "sname":"Nazeena",  
... "Degree":"BCA",  
... "Sem":"3",  
... "CGPA":8.3  
... },  
... {  
... "SRN":107,  
... "sname":"Hamna",  
... "Degree":"MCA",  
... "Sem":"4",  
... "CGPA":8.9  
... },  
... {  
... "SRN":108,
```

```

... "sname":"Dwany",
... "Degree":"BCA",
... "Sem":"4",
... "CGPA":9.3
... }
... ]
... )
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("62a0d96cc4f43a1eadee94f7"),
    ObjectId("62a0d96cc4f43a1eadee94f8"),
    ObjectId("62a0d96cc4f43a1eadee94f9"),
    ObjectId("62a0d96cc4f43a1eadee94fa"),
    ObjectId("62a0d96cc4f43a1eadee94fb"),
    ObjectId("62a0d96cc4f43a1eadee94fc"),
    ObjectId("62a0d96cc4f43a1eadee94fd"),
    ObjectId("62a0d96cc4f43a1eadee94fe")
  ]
}

```

> -----1.Display all the documents.

...

...

> db.stud.find().pretty()

```

{
  "_id" : ObjectId("62a0d96cc4f43a1eadee94f7"),
  "SRN" : 101,
  "sname" : "Ansiya",
  "Degree" : "MCA",
  "Sem" : "2",
  "CGPA" : 9.6
}

```

```
}  
  
{  
  "_id" : ObjectId("62a0d96cc4f43a1eadee94f8"),  
  "SRN" : 102,  
  "sname" : "Suhail",  
  "Degree" : "MCA",  
  "Sem" : "4",  
  "CGPA" : 9.7  
}  
  
{  
  "_id" : ObjectId("62a0d96cc4f43a1eadee94f9"),  
  "SRN" : 103,  
  "sname" : "Sahal",  
  "Degree" : "MCA",  
  "Sem" : "3",  
  "CGPA" : 8.2  
}  
  
{  
  "_id" : ObjectId("62a0d96cc4f43a1eadee94fa"),  
  "SRN" : 104,  
  "sname" : "Afsal",  
  "Degree" : "BCA",  
  "Sem" : "6",  
  "CGPA" : 9.5  
}  
  
{  
  "_id" : ObjectId("62a0d96cc4f43a1eadee94fb"),  
  "SRN" : 105,  
  "sname" : "Fathimi",  
  "Degree" : "BCA",  
  "Sem" : "1",
```

```

      "CGPA" : 8.8
    }
  {
    "_id" : ObjectId("62a0d96cc4f43a1eadee94fc"),
    "SRN" : 106,
    "sname" : "Nazeena",
    "Degree" : "BCA",
    "Sem" : "3",
    "CGPA" : 8.3
  }
  {
    "_id" : ObjectId("62a0d96cc4f43a1eadee94fd"),
    "SRN" : 107,
    "sname" : "Hamna",
    "Degree" : "MCA",
    "Sem" : "4",
    "CGPA" : 8.9
  }
  {
    "_id" : ObjectId("62a0d96cc4f43a1eadee94fe"),
    "SRN" : 108,
    "sname" : "Dwany",
    "Degree" : "BCA",
    "Sem" : "4",
    "CGPA" : 9.3
  }
}

```

2> db.stud.find({Degree:"BCA"})

```

{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fa"), "SRN" : 104, "sname" : "Afsal", "Degree" : "BCA",
  "Sem" : "6", "CGPA" : 9.5 }

{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fb"), "SRN" : 105, "sname" : "Fathimi", "Degree" :
  "BCA", "Sem" : "1", "CGPA" : 8.8 }

```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fc"), "SRN" : 106, "sname" : "Nazeena", "Degree" :  
"BCA", "Sem" : "3", "CGPA" : 8.3 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fe"), "SRN" : 108, "sname" : "Dwany", "Degree" : "BCA",  
"Sem" : "4", "CGPA" : 9.3 }
```

3> db.stud.find({}, {sname:1, _id:0}).sort({sname:1})

```
{ "sname" : "Afsal" }
```

```
{ "sname" : "Ansiya" }
```

```
{ "sname" : "Dwany" }
```

```
{ "sname" : "Fathimi" }
```

```
{ "sname" : "Hamna" }
```

```
{ "sname" : "Nazeena" }
```

```
{ "sname" : "Sahal" }
```

```
{ "sname" : "Suhail" }
```

4> db.stud.find().limit(5)

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94f7"), "SRN" : 101, "sname" : "Ansiya", "Degree" : "MCA",  
"Sem" : "2", "CGPA" : 9.6 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94f8"), "SRN" : 102, "sname" : "Suhail", "Degree" : "MCA",  
"Sem" : "4", "CGPA" : 9.7 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94f9"), "SRN" : 103, "sname" : "Sahal", "Degree" : "MCA",  
"Sem" : "3", "CGPA" : 8.2 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fa"), "SRN" : 104, "sname" : "Afsal", "Degree" : "BCA",  
"Sem" : "6", "CGPA" : 9.5 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fb"), "SRN" : 105, "sname" : "Fathimi", "Degree" :  
"BCA", "Sem" : "1", "CGPA" : 8.8 }
```

4> db.stud.find().skip(4).limit(3)

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fb"), "SRN" : 105, "sname" : "Fathimi", "Degree" :  
"BCA", "Sem" : "1", "CGPA" : 8.8 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fc"), "SRN" : 106, "sname" : "Nazeena", "Degree" :  
"BCA", "Sem" : "3", "CGPA" : 8.3 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fd"), "SRN" : 107, "sname" : "Hamna", "Degree" :  
"MCA", "Sem" : "4", "CGPA" : 8.9 }
```

5> db.stud.find().skip(4).limit(3)

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fb"), "SRN" : 105, "sname" : "Fathimi", "Degree" : "BCA", "Sem" : "1", "CGPA" : 8.8 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fc"), "SRN" : 106, "sname" : "Nazeena", "Degree" : "BCA", "Sem" : "3", "CGPA" : 8.3 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fd"), "SRN" : 107, "sname" : "Hamna", "Degree" : "MCA", "Sem" : "4", "CGPA" : 8.9 }
```

6> db.stud.find({}, {Degree:1, sname:1, _id:0})

```
{ "sname" : "Ansiya", "Degree" : "MCA" }
```

```
{ "sname" : "Suhail", "Degree" : "MCA" }
```

```
{ "sname" : "Sahal", "Degree" : "MCA" }
```

```
{ "sname" : "Afsal", "Degree" : "BCA" }
```

```
{ "sname" : "Fathimi", "Degree" : "BCA" }
```

```
{ "sname" : "Nazeena", "Degree" : "BCA" }
```

```
{ "sname" : "Hamna", "Degree" : "MCA" }
```

```
{ "sname" : "Dwany", "Degree" : "BCA" }
```

7> db.stud.find().skip(4).limit(3).sort({CGPA:-1})

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fd"), "SRN" : 107, "sname" : "Hamna", "Degree" : "MCA", "Sem" : "4", "CGPA" : 8.9 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fb"), "SRN" : 105, "sname" : "Fathimi", "Degree" : "BCA", "Sem" : "1", "CGPA" : 8.8 }
```

```
{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fc"), "SRN" : 106, "sname" : "Nazeena", "Degree" : "BCA", "Sem" : "3", "CGPA" : 8.3 }
```

8> db.stud.count({Degree:"BCA"})

4

9> db.stud.find({}, {Degree:1, _id:0})

```
{ "Degree" : "MCA" }
```

```
{ "Degree" : "MCA" }
```

```
{ "Degree" : "MCA" }
```

```
{ "Degree" : "BCA" }
```

```
{ "Degree" : "BCA" }
```

```
{ "Degree" : "BCA" }
```

```
{ "Degree" : "MCA" }
```

```
{ "Degree" : "BCA" }
```

10> db.stud.distinct("Degree")

["BCA", "MCA"]

11> db.stud.find({"Degree":"BCA",\$and:[{"CGPA":{"\$gt:8.2}},{"CGPA":{"\$lt:9.7}}]},{_id:0})

{ "SRN" : 104, "sname" : "Afsal", "Degree" : "BCA", "Sem" : "6", "CGPA" : 9.5 }

{ "SRN" : 105, "sname" : "Fathimi", "Degree" : "BCA", "Sem" : "1", "CGPA" : 8.8 }

{ "SRN" : 106, "sname" : "Nazeena", "Degree" : "BCA", "Sem" : "3", "CGPA" : 8.3 }

{ "SRN" : 108, "sname" : "Dwany", "Degree" : "BCA", "Sem" : "4", "CGPA" : 9.3 }

12> db.stud.find({Degree:"BCA",Sem:"6"})

{ "_id" : ObjectId("62a0d96cc4f43a1eadee94fa"), "SRN" : 104, "sname" : "Afsal", "Degree" : "BCA",
"Sem" : "6", "CGPA" : 9.5 }

>