MongoDB_Lab1

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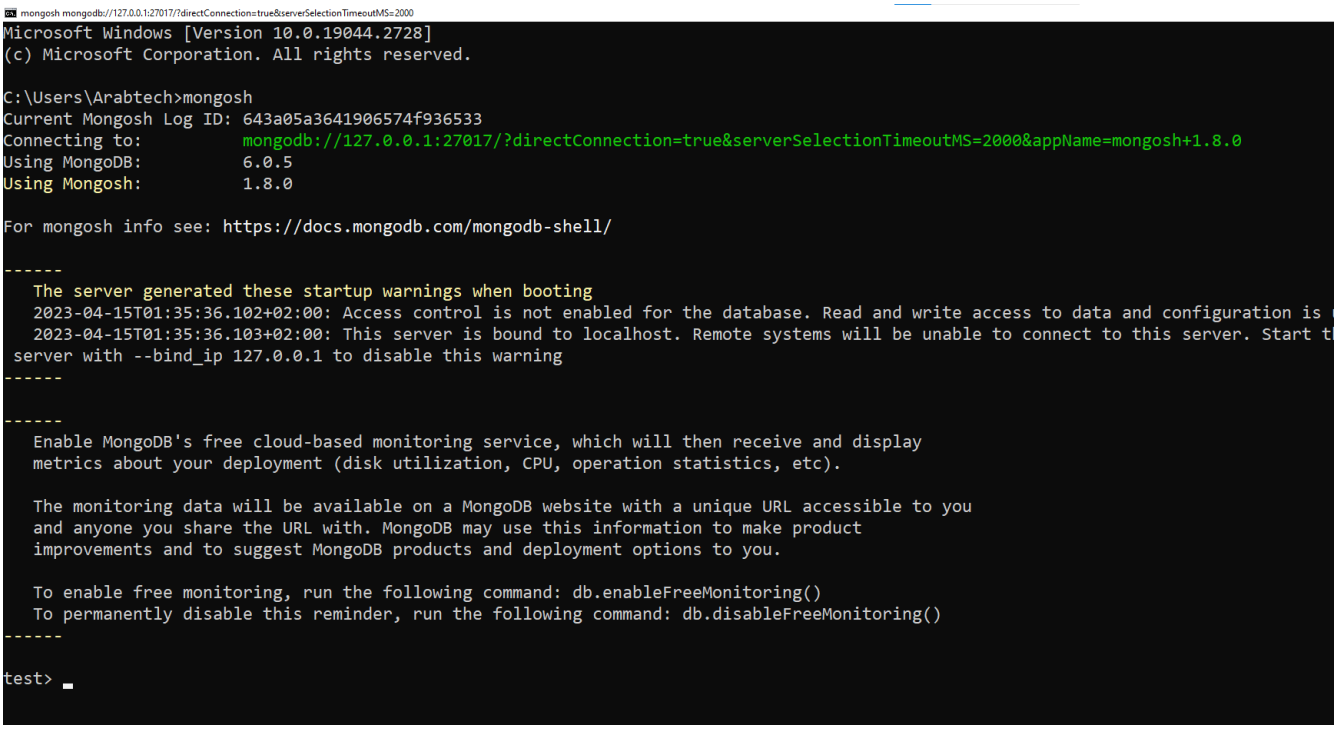
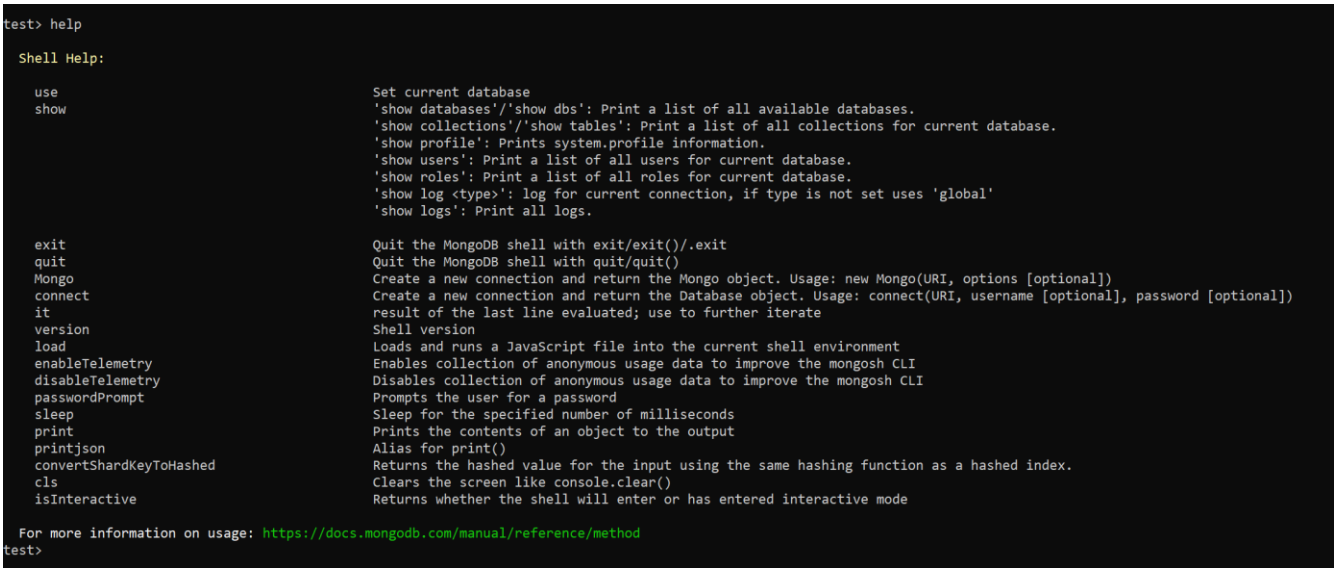
1 – open mongo shell and view the help





2 – identify your current working database and show list of available databases

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&s
test> show dbs
ITI              144.00 KiB
NurserySystem  380.00 KiB
admin           40.00 KiB
config          72.00 KiB
local           72.00 KiB
test> db
test
test>
```

3 – create a new database called iti and create a collection named “students”. Insert whatever data you want about yourself (include name and age in your details).

```
iti> use ITI
switched to db ITI
```

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

```
ITI> db.students.insertOne( {_id:1,name:"Cristiano Ronaldo",age:37} )
{ acknowledged: true, insertedId: 1 }
```

```
ITI> db.students.insertMany( [ {_id:2,name:"Sergio Ramos",age:38} , {_id:3,name:"Vinisious Junior",age:24} ] )
{ acknowledged: true, insertedIds: { '0': 2, '1': 3 } }

ITI> db.students.find({})
[
  { _id: 1, name: 'Cristiano Ronaldo', age: 37 },
  { _id: 2, name: 'Sergio Ramos', age: 38 },
  { _id: 3, name: 'Vinisious Junior', age: 24 }
]
```

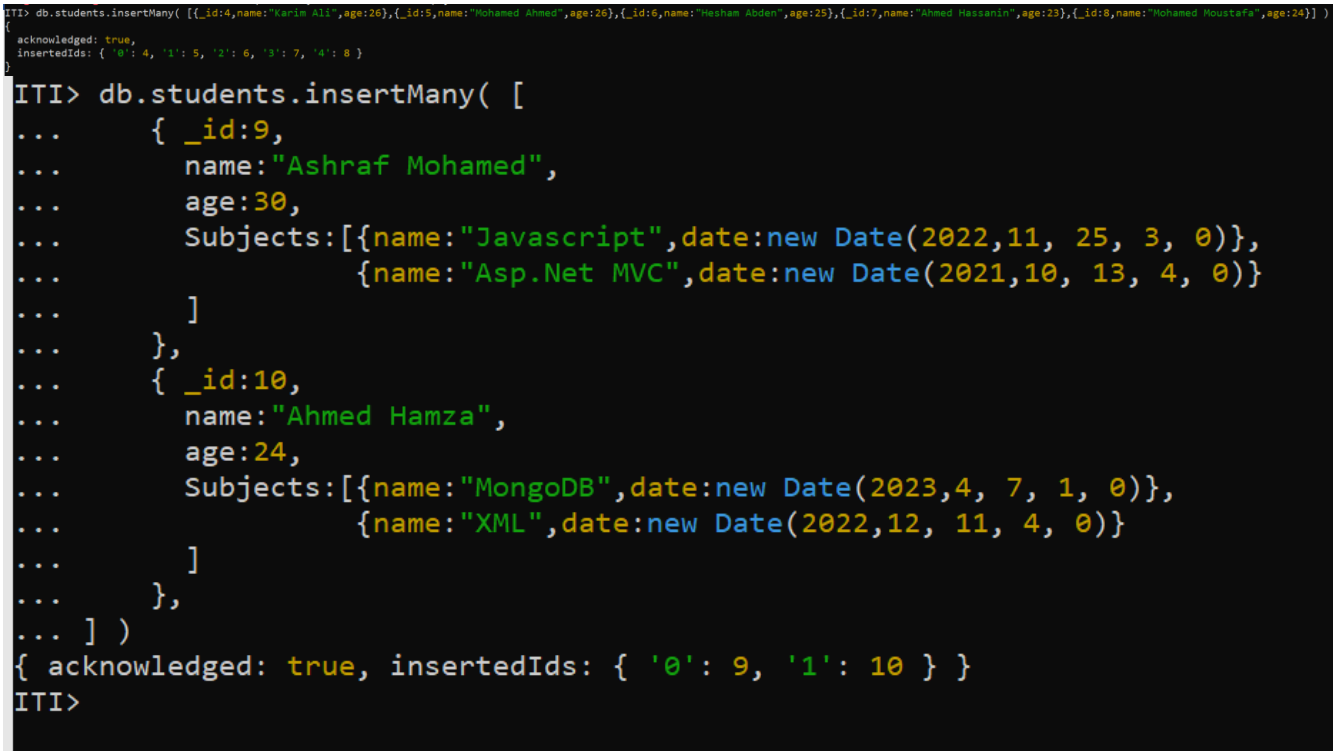
4– show list of available databases. What did you notice?

```
ITI> show dbs
ITI              120.00 KiB
NurserySystem    380.00 KiB
admin             40.00 KiB
config           108.00 KiB
local             72.00 KiB
```

Database ITI added

5 – Insert un-structured or semi-structured data for 10 of your friends (include name and age in your details. The documents should have different types of data i.e. arrays, strings, documents, integers).

```
db.students.insertMany( [
        {_id:4,name:"Karim Ali",age:26},
        {_id:5,name:"Mohamed Ahmed",age:26},
        {_id:6,name:"Hesham Abden",age:25},
        {_id:7,name:"Ahmed Hassanin",age:23},
        {_id:8,name:"Mohamed Moustafa",age:24}
] )
```



```
ITI> db.students.find()
[
  { _id: 1, name: 'Cristiano Ronaldo', age: 37 },
  { _id: 2, name: 'Sergio Ramos', age: 38 },
  { _id: 3, name: 'Vinisious Junior', age: 24 },
  { _id: 4, name: 'Karim Ali', age: 26 },
  { _id: 5, name: 'Mohamed Ahmed', age: 26 },
  { _id: 6, name: 'Hesham Abden', age: 25 },
  { _id: 7, name: 'Ahmed Hassanin', age: 23 },
  { _id: 8, name: 'Mohamed Moustafa', age: 24 },
  {
    _id: 9,
    name: 'Ashraf Mohamed',
    age: 30,
    Subjects: [
      { name: 'Javascript', date: ISODate("2022-12-25T01:00:00.000Z") },
      {
        name: 'Asp.Net MVC',
        date: ISODate("2021-11-13T02:00:00.000Z")
      }
    ]
  },
  {
    _id: 10,
    name: 'Ahmed Hamza',
    age: 24,
    Subjects: [
      { name: 'MongoDB', date: ISODate("2023-05-06T23:00:00.000Z") },
      { name: 'XML', date: ISODate("2023-01-11T02:00:00.000Z") }
    ]
  }
]
ITI>
```

6 – Search for your object by name.

```
ITI> db.students.find({name:"Ahmed Hamza"})
[
  {
    _id: 10,
    name: 'Ahmed Hamza',
    age: 24,
    Subjects: [
      { name: 'MongoDB', date: ISODate("2023-05-06T23:00:00.000Z") },
      { name: 'XML', date: ISODate("2023-01-11T02:00:00.000Z") }
    ]
  }
]
ITI>
```

7– Search for your friend(s) by age.

```
ITI> db.students.find({age:24})
[
  { _id: 3, name: 'Vinisious Junior', age: 24 },
  { _id: 8, name: 'Mohamed Moustafa', age: 24 },
  {
    _id: 10,
    name: 'Ahmed Hamza',
    age: 24,
    Subjects: [
      { name: 'MongoDB', date: ISODate("2023-05-06T23:00:00.000Z") },
      { name: 'XML', date: ISODate("2023-01-11T02:00:00.000Z") }
    ]
  }
]
```

8 – Search for all of your friends whose age is older than yours.

```
ITI> db.students.find({age:{$gt:26}})
[
  { _id: 1, name: 'Cristiano Ronaldo', age: 37 },
  { _id: 2, name: 'Sergio Ramos', age: 38 },
  {
    _id: 9,
    name: 'Ashraf Mohamed',
    age: 30,
    Subjects: [
      { name: 'Javascript', date: ISODate("2022-12-25T01:00:00.000Z") },
      {
        name: 'Asp.Net MVC',
        date: ISODate("2021-11-13T02:00:00.000Z")
      }
    ]
  }
]
ITI>
```

9 – delete any of your friends by id.

```
ITI> db.students.deleteOne({_id:3})
{ acknowledged: true, deletedCount: 1 }
ITI>
```

10 – view all documents in students' collection in a prettified format.

```
ITI> db.students.find({}).pretty()
[
  { _id: 1, name: 'Cristiano Ronaldo', age: 37 },
  { _id: 2, name: 'Sergio Ramos', age: 38 },
  { _id: 4, name: 'Karim Ali', age: 26 },
  { _id: 5, name: 'Mohamed Ahmed', age: 26 },
  { _id: 6, name: 'Hesham Abden', age: 25 },
  { _id: 7, name: 'Ahmed Hassanin', age: 23 },
  { _id: 8, name: 'Mohamed Moustafa', age: 24 },
  {
    _id: 9,
    name: 'Ashraf Mohamed',
    age: 30,
    Subjects: [
      { name: 'Javascript', date: ISODate("2022-12-25T01:00:00.000Z") },
      {
        name: 'Asp.Net MVC',
        date: ISODate("2021-11-13T02:00:00.000Z")
      }
    ]
  },
  {
    _id: 10,
    name: 'Ahmed Hamza',
    age: 24,
    Subjects: [
      { name: 'MongoDB', date: ISODate("2023-05-06T23:00:00.000Z") },
      { name: 'XML', date: ISODate("2023-01-11T02:00:00.000Z") }
    ]
  }
]
```

11 – count all documents in students' collection.

```
ITI> db.students.count({})
DeprecationWarning: Collection.count
9
ITI> db.students.countDocuments({})
9
ITI>
ITI> db.students.countDocuments({age:{$gt:26}})
3
ITI>
```

part 2

1- Create database with name ems

```
ITI> use ems
switched to db ems
ems> _
```

2- Insert the following data into "faculty" collection

```
{ "name":"Krish", "age":35,"gender":"M","exp":10,subjects:["DS","C","OS"],"type":"Full Time","qualification":"M.Tech" },
{ "name":"Manoj", "age":38,"gender":"M","exp":12,subjects:["JAVA","DBMS"],"type":"Full Time", "qualification":"Ph.D"},
{ "name":"Anush", "age":32,"gender":"F","exp":8,subjects:["C","CPP"],"type":"Part Time","qualification":"M.Tech" },
{ "name":"Suresh", "age":40,"gender":"M","exp":9,subjects:["JAVA","DBMS","NETWORKING"],"type":"Full Time", "qualification":"Ph.D"},
{ "name":"Rajesh", "age":35,"gender":"M","exp":7,subjects:["DS","C","OS"],"type":"Full Time","qualification":"M.Tech" },
{ "name":"Mani", "age":38,"gender":"F","exp":10,subjects:["JAVA","DBMS","OS"],"type":"Part Time", "qualification":"Ph.D"},
 { "name":"Sivani", "age":32,"gender":"F","exp":8,subjects:["C","CPP","MATHS"],"type":"Part Time","qualification":"M.Tech" },
 { "name":"Nagesh", "age":39,"gender":"M","exp":11,subjects:["JAVA","DBMS","NETWORKING"],"type":"Full Time", "qualification":"Ph.D"},
 { "name":"Nagesh", "age":35,"gender":"M","exp":9,subjects:["JAVA",".Net","NETWORKING"],"type":"Full Time", "qualification":"Ph.D"},
 { "name":"Latha", "age":40,"gender":"F","exp":13,subjects:["MATHS"],"type":"Full Time", "qualification":"Ph.D"}
```

```
ems> let facultyArray = [
...     { "name":"Krish", "age":35,"gender":"M","exp":10,subjects:["DS","C","OS"],"type":"Full Time","qualification":"M.Tech" },
...     { "name":"Manoj", "age":38,"gender":"M","exp":12,subjects:["JAVA","DBMS"],"type":"Full Time", "qualification":"Ph.D"},
...     { "name":"Anush", "age":32,"gender":"F","exp":8,subjects:["C","CPP"],"type":"Part Time","qualification":"M.Tech" },
...     { "name":"Suresh", "age":40,"gender":"M","exp":9,subjects:["JAVA","DBMS","NETWORKING"],"type":"Full Time", "qualification":"Ph.D"},
...     { "name":"Rajesh", "age":35,"gender":"M","exp":7,subjects:["DS","C","OS"],"type":"Full Time","qualification":"M.Tech" },
...     { "name":"Mani", "age":38,"gender":"F","exp":10,subjects:["JAVA","DBMS","OS"],"type":"Part Time", "qualification":"Ph.D"},
...     { "name":"Sivani", "age":32,"gender":"F","exp":8,subjects:["C","CPP","MATHS"],"type":"Part Time","qualification":"M.Tech" },
...     { "name":"Nagesh", "age":39,"gender":"M","exp":11,subjects:["JAVA","DBMS","NETWORKING"],"type":"Full Time", "qualification":"Ph.D"},
... { "name":"Nagesh", "age":35,"gender":"M","exp":9,subjects:["JAVA",".Net","NETWORKING"],"type":"Full Time", "qualification":"Ph.D"},
...     { "name":"Latha", "age":40,"gender":"F","exp":13,subjects:["MATHS"],"type":"Full Time", "qualification":"Ph.D"}
... ]

ems>
```

```
ems> db.faculty.insertMany(facultyArray)
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("643a198c630c4797534e5820"),
    '1': ObjectId("643a198c630c4797534e5821"),
    '2': ObjectId("643a198c630c4797534e5822"),
    '3': ObjectId("643a198c630c4797534e5823"),
    '4': ObjectId("643a198c630c4797534e5824"),
    '5': ObjectId("643a198c630c4797534e5825"),
    '6': ObjectId("643a198c630c4797534e5826"),
    '7': ObjectId("643a198c630c4797534e5827"),
    '8': ObjectId("643a198c630c4797534e5828"),
    '9': ObjectId("643a198c630c4797534e5829")
  }
}
ems>
```

```
ms> db.faculty.find({})

{
  _id: ObjectId("643a198c630c4797534e5820"),
  name: 'Krish',
  age: 35,
  gender: 'M',
  exp: 10,
  subjects: [ 'DS', 'C', 'OS' ],
  type: 'Full Time',
  qualification: 'M.Tech'
},
{
  _id: ObjectId("643a198c630c4797534e5821"),
  name: 'Manoj',
  age: 38,
  gender: 'M',
  exp: 12,
  subjects: [ 'JAVA', 'DBMS' ],
  type: 'Full Time',
  qualification: 'Ph.D'
},
{
  _id: ObjectId("643a198c630c4797534e5822"),
  name: 'Anush',
  age: 32,
  gender: 'F',
  exp: 8,
  subjects: [ 'C', 'CPP' ],
  type: 'Part Time',
  qualification: 'M.Tech'
},
{
  _id: ObjectId("643a198c630c4797534e5823"),
  name: 'Suresh',
  age: 40,
  gender: 'M',
  exp: 9,
  subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
  type: 'Full Time',
  qualification: 'Ph.D'
},
{
  _id: ObjectId("643a198c630c4797534e5824"),
  name: 'Rajesh',
  age: 35,
  gender: 'M',
  exp: 7,
  subjects: [ 'DS', 'C', 'OS' ],
  type: 'Full Time',
  qualification: 'M.Tech'
},
{
  _id: ObjectId("643a198c630c4797534e5825"),
  name: 'Mani',
  age: 38,
  gender: 'F',
  exp: 10,
  subjects: [ 'JAVA', 'DBMS', 'OS' ],
  type: 'Part Time',
  qualification: 'Ph.D'
},
{
  _id: ObjectId("643a198c630c4797534e5826"),
  name: 'Sivani',
  age: 32,
```

1. Get the details of all the faculty.

2. Get the count of all faculty members.

```
ems> db.faculty.countDocuments({})
10
ems>
```

```
ems> db.faculty.find({qualification:"Ph.D"})
[
  {
    _id: ObjectId("643a198c630c4797534e5821"),
    name: 'Manoj',
    age: 38,
    gender: 'M',
    exp: 12,
    subjects: [ 'JAVA', 'DBMS' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5823"),
    name: 'Suresh',
    age: 40,
    gender: 'M',
    exp: 9,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5825"),
    name: 'Mani',
    age: 38,
    gender: 'F',
    exp: 10,
    subjects: [ 'JAVA', 'DBMS', 'OS' ],
    type: 'Part Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5827"),
    name: 'Nagesh',
    age: 39,
    gender: 'M',
    exp: 11,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5828"),
    name: 'Nagesh',
    age: 35,
    gender: 'M',
    exp: 9,
    subjects: [ 'JAVA', '.Net', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5829"),
    name: 'Latha',
    age: 40,
    gender: 'F',
    exp: 13,
    subjects: [ 'MATHS' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  }
]
```

3.Get all the faculty members whose qualification is “Ph.D”.

4.Get all the faculty members whose experience is between 8 to 12 years.

```
ems> db.faculty.find( { $and:[ {exp:{$gte:8}} , {exp:{$lte:12}} ] } )
[
  {
    _id: ObjectId("643a198c630c4797534e5820"),
    name: 'Krish',
    age: 35,
    gender: 'M',
    exp: 10,
    subjects: [ 'DS', 'C', 'OS' ],
    type: 'Full Time',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5821"),
    name: 'Manoj',
    age: 38,
    gender: 'M',
    exp: 12,
    subjects: [ 'JAVA', 'DBMS' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5822"),
    name: 'Anush',
    age: 32,
    gender: 'F',
    exp: 8,
    subjects: [ 'C', 'CPP' ],
    type: 'Part Time',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5823"),
    name: 'Suresh',
    age: 40,
    gender: 'M',
    exp: 9,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
```

```
ems> db.faculty.find( { exp:{$gte:8} , exp:{$lte:12}  } )
[
  {
    _id: ObjectId("643a198c630c4797534e5820"),
    name: 'Krish',
    age: 35,
    gender: 'M',
    exp: 10,
    subjects: [ 'DS', 'C', 'OS' ],
    type: 'Full Time',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5821"),
    name: 'Manoj',
    age: 38,
    gender: 'M',
    exp: 12,
    subjects: [ 'JAVA', 'DBMS' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5822"),
    name: 'Anush',
    age: 32,
    gender: 'F',
    exp: 8,
    subjects: [ 'C', 'CPP' ],
    type: 'Part Time',
    qualification: 'M.Tech'
  },
```

5.Get all the faculty members who teach “MATHS” or “NETWORKING”.

```
ems> db.faculty.find({ $or: [ {subjects:'MATHS'},{subjects:'NETWORKING'} ] })
[
  {
    _id: ObjectId("643a198c630c4797534e5823"),
    name: 'Suresh',
    age: 40,
    gender: 'M',
    exp: 9,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5826"),
    name: 'Sivani',
    age: 32,
    gender: 'F',
    exp: 8,
    subjects: [ 'C', 'CPP', 'MATHS' ],
    type: 'Part Time',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5827"),
    name: 'Nagesh',
    age: 39,
    gender: 'M',
    exp: 11,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
```

6.Get all the faculty members who teach “MATHS” and whose age is more than 30 years and qualification must be “Ph.D”.

```
ems> db.faculty.find({ subjects:'MATHS' , age:{$gt:30} , qualification:'Ph.D' })
[
  {
    _id: ObjectId("643a198c630c4797534e5829"),
    name: 'Latha',
    age: 40,
    gender: 'F',
    exp: 13,
    subjects: [ 'MATHS' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  }
]
ems>
```

7.Get all the faculty members who are working part-time or who teach “JAVA”.

```
ems> db.faculty.find({$or : [{type:'Part Time'},{subjects:'JAVA'}]})
[
  {
    _id: ObjectId("643a198c630c4797534e5821"),
    name: 'Manoj',
    age: 38,
    gender: 'M',
    exp: 12,
    subjects: [ 'JAVA', 'DBMS' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5822"),
    name: 'Anush',
    age: 32,
    gender: 'F',
    exp: 8,
    subjects: [ 'C', 'CPP' ],
    type: 'Part Time',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5823"),
    name: 'Suresh',
    age: 40,
    gender: 'M',
    exp: 9,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
```

8. Add the following new faculty members:

{ "name":"Suresh Babu", "age":55,"gender":"M","exp":25,subjects:
["MATHS","DE"],"type":"Full Time", "qualification":"Ph.D"}

```
db.faculty.insertOne({
    name:"Suresh Babu",
    age:55,
    gender:"M",
    exp:25,
    subjects:["MATHS","DE"],
    type:"Full Time",
    qualification:"Ph.D"
})
```

Output | Shell Output (Documents) ×

50 | Documents 1 to 1


```
{
    "acknowledged" : true,
    "insertedId" : ObjectId("644102a33ddd66ebed4e8aab")
}
```


```
db.faculty.findOne({name:"Suresh Babu"})
```


```
{
    "_id" : ObjectId("644102a33ddd66ebed4e8aab"),
    "name" : "Suresh Babu",
    "age" : 55.0,
    "gender" : "M",
    "exp" : 25.0,
    "subjects" : [
        "MATHS",
        "DE"
    ],
    "type" : "Full Time",
    "qualification" : "Ph.D"
}
```

9. Update the data of all faculty members by incrementing their age and exp by one year.

```
ems> db.faculty.updateMany(
...     {},
...     {$inc:{exp:1 , age:1}}
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 11,
  modifiedCount: 11,
  upsertedCount: 0
}
ems>
```

10. Update the faculty “Sivani” with the following data: update qualification to “Ph.D” and type to “Full Time”.

```
ems> db.faculty.updateOne(
...     {name:'Sivani'},
...     {$set:{qualification:'Ph.D' , type:'Full Time'}}
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
```

11. Update all faculty members who are teaching “MATHS” such that they should now also teach “PSK”.

```
ems> db.faculty.updateMany(
...     {subjects:'MATHS'},
...     {$push:{subjects:'PSK'}}
... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 3,
  upsertedCount: 0
}
```

12. Delete all faculty members whose age is more than 55 years.

```
ems> db.faculty.deleteMany({age:{$gt:55}})
{ acknowledged: true, deletedCount: 1 }
```

13. Get only the name and qualification of all faculty members.

```
ems> db.faculty.find(
...     {},  // criteria
...     { name:1 , qualification:1 }   // projection
... )
[
  {
    _id: ObjectId("643a198c630c4797534e5820"),
    name: 'Krish',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5821"),
    name: 'Manoj',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5822"),
    name: 'Anush',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5823"),
    name: 'Suresh',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5824"),
    name: 'Rajesh',
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5825"),
    name: 'Mani',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5826"),
    name: 'Sivani',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5827"),
    name: 'Nagesh',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5828"),
    name: 'Nagesh',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5829"),
    name: 'Latha',
    qualification: 'Ph.D'
  }
]
```

14. Get the name, qualification and exp of all faculty members and display the same in ascending order of exp.

```
ems> db.faculty.find(
...     {},  // criteria
...     { name:1 , qualification:1 , exp:1 },
... ).sort({exp:1})
[
  {
    _id: ObjectId("643a198c630c4797534e5824"),
    name: 'Rajesh',
    exp: 8,
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5822"),
    name: 'Anush',
    exp: 9,
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5826"),
    name: 'Sivani',
    exp: 9,
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5823"),
    name: 'Suresh',
    exp: 10,
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5828"),
    name: 'Nagesh',
    exp: 10,
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5820"),
    name: 'Krish',
    exp: 11,
    qualification: 'M.Tech'
  },
  {
    _id: ObjectId("643a198c630c4797534e5825"),
    name: 'Mani',
    exp: 11,
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5827"),
    name: 'Nagesh',
    exp: 12,
    qualification: 'Ph.D'
  },
```

15. Sort the faculty details by their age (descending order) and get the details of the first five faculty members only.

```
ems> db.faculty.find().sort({age:-1}).limit(5)
[
  {
    _id: ObjectId("643a198c630c4797534e5829"),
    name: 'Latha',
    age: 41,
    gender: 'F',
    exp: 14,
    subjects: [ 'MATHS', 'PSK' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5823"),
    name: 'Suresh',
    age: 41,
    gender: 'M',
    exp: 10,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5827"),
    name: 'Nagesh',
    age: 40,
    gender: 'M',
    exp: 12,
    subjects: [ 'JAVA', 'DBMS', 'NETWORKING' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5825"),
    name: 'Mani',
    age: 39,
    gender: 'F',
    exp: 11,
    subjects: [ 'JAVA', 'DBMS', 'OS' ],
    type: 'Part Time',
    qualification: 'Ph.D'
  },
  {
    _id: ObjectId("643a198c630c4797534e5821"),
    name: 'Manoj',
    age: 39,
    gender: 'M',
    exp: 13,
    subjects: [ 'JAVA', 'DBMS' ],
    type: 'Full Time',
    qualification: 'Ph.D'
  }
]
```