

1.Create a database named Employee. Create a collection named empDetails

You can use any of the fields Name, Age ,e_mail, phone,salary

```
> use mydb
```

```
switched to db mydb
```

```
> db.createCollection("Student")
```

```
{ "ok" : 1 }
```

i) Insert 5 documents in it using the different insert() methods and

```
>
```

```
db.student.insert({"name":"manu","age":62,"email":"abc123@gmail.com","phone":1234567890,"salary":25000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.student.insert({"name":"pappu","age":21,"email":"ac123@gmail.com","phone":1278667890,"salary":2000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.student.insert({"name":"mohan","age":24,"email":"mohan123@gmail.com","phone":1299667890,"salary":6000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.student.insert({"name":"raju","age":22,"email":"raju123@gmail.com","phone":1299667890,"salary":4000})
```

```
WriteResult({ "nInserted" : 1 })
```

```
>
```

```
db.student.insert({"name":"bhuvan","age":22,"email":"bhuvan123@gmail.com","phone":1289667890,"salary":40550})
```

```
WriteResult({ "nInserted" : 1 })
```

a) Find the details of employee whose name is mohan

```
> db.student.find({"name":"mohan"}).pretty()
```

```
{
  "_id" : ObjectId("629ad04d7738eba5b7d72ab2"),
  "name" : "mohan",
  "age" : 24,
  "email" : "mohan123@gmail.com",
  "phone" : 1299667890,
  "salary" : 6000
}
```

b) Fetch the documents of employees whose salary ≥ 5000

```
> db.student.find({"salary":{$gt:5000}}).pretty()
{
  "_id" : ObjectId("629ad0337738eba5b7d72ab0"),
  "name" : "manu",
  "age" : 62,
  "email" : "abc123@gmail.com",
  "phone" : 1234567890,
  "salary" : 25000
}
{
  "_id" : ObjectId("629ad04d7738eba5b7d72ab2"),
  "name" : "mohan",
  "age" : 24,
  "email" : "mohan123@gmail.com",
  "phone" : 1299667890,
  "salary" : 6000
}
{
  "_id" : ObjectId("629ad0647738eba5b7d72ab4"),
  "name" : "bhuvan",
  "age" : 22,
  "email" : "bhuvan123@gmail.com",
  "phone" : 1289667890,
  "salary" : 40550
}
```

c) Find the documents of employees whose name starts with letter r

```
> db.student.find({"name":/^r/}).pretty()
{
  "_id" : ObjectId("629ad05a7738eba5b7d72ab3"),
  "name" : "raju",
  "age" : 22,
  "email" : "raju123@gmail.com",
  "phone" : 1299667890,
  "salary" : 4000
}
```

d) Find the documents of employees whose name is not in mohan , raju, bhuvan

```
> db.student.find({"name":{$nin:["mohan","raju","bhuvan"]}}).pretty()
{
  "_id" : ObjectId("629ad0337738eba5b7d72ab0"),
```

```

    "name" : "manu",
    "age" : 62,
    "email" : "abc123@gmail.com",
    "phone" : 1234567890,
    "salary" : 25000
  }
  {
    "_id" : ObjectId("629ad03f7738eba5b7d72ab1"),
    "name" : "pappu",
    "age" : 21,
    "email" : "ac123@gmail.com",
    "phone" : 1278667890,
    "salary" : 2000
  }
}

```

- e) Find the documents of employees whose names are mohan , raju, bhuvan

```

> db.student.find({"name":{"$in":["mohan","raju","bhuvan"]}}).pretty()
{
  "_id" : ObjectId("629ad04d7738eba5b7d72ab2"),
  "name" : "mohan",
  "age" : 24,
  "email" : "mohan123@gmail.com",
  "phone" : 1299667890,
  "salary" : 6000
}
{
  "_id" : ObjectId("629ad05a7738eba5b7d72ab3"),
  "name" : "raju",
  "age" : 22,
  "email" : "raju123@gmail.com",
  "phone" : 1299667890,
  "salary" : 4000
}
{
  "_id" : ObjectId("629ad0647738eba5b7d72ab4"),
  "name" : "bhuvan",
  "age" : 22,
  "email" : "bhuvan123@gmail.com",
  "phone" : 1289667890,
  "salary" : 40550
}
>

```

- f) Retrieve the details of employees whose age is less than 30. Display only the fields name, salary

```
> db.student.find({ age: { $lt: 30 } }, { name: 1, salary: 1 }).pretty()
{
  "_id" : ObjectId("629ad03f7738eba5b7d72ab1"),
  "name" : "pappu",
  "salary" : 2000
}
{
  "_id" : ObjectId("629ad04d7738eba5b7d72ab2"),
  "name" : "mohan",
  "salary" : 6000
}
{
  "_id" : ObjectId("629ad05a7738eba5b7d72ab3"),
  "name" : "raju",
  "salary" : 4000
}
{
  "_id" : ObjectId("629ad0647738eba5b7d72ab4"),
  "name" : "bhuvan",
  "salary" : 40550
}
```

g) Find the details of employees whose salary is >5000 and age is < 30

```
> db.student.find({ $and: [{ age: { $lt: 30 } }, { salary: { $gt: 5000 } }] }).pretty()
{
  "_id" : ObjectId("629ad04d7738eba5b7d72ab2"),
  "name" : "mohan",
  "age" : 24,
  "email" : "mohan123@gmail.com",
  "phone" : 1299667890,
  "salary" : 6000
}
{
  "_id" : ObjectId("629ad0647738eba5b7d72ab4"),
  "name" : "bhuvan",
  "age" : 22,
  "email" : "bhuvan123@gmail.com",
  "phone" : 1289667890,
  "salary" : 40550
}
```

h) Update the e-mail of employee whose name is mohan // findOneAndUpdate()

```
>
db.student.findOneAndUpdate({ name:"mohan" },{$set:{email:"aswwiin3@gmail.co
m"}}))
{
  "_id" : ObjectId("629ad04d7738eba5b7d72ab2"),
  "name" : "mohan",
  "age" : 24,
  "email" : "aswwiin3@gmail.com",
  "phone" : 1299667890,
  "salary" : 6000
}
```

i) Delete all the documents of employees whose age>56

```
> db.student.deleteMany({age:{$gt:56}})
{ "acknowledged" : true, "deletedCount" : 1 }
```