

1- ایجاد دیتابیس با نام company

2- ایجاد collection با نام persons و اضافه کردن فیلد های مربوط به کارمندان

```
C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe

> use company
switched to db company
> db.persons.insertMany([{"First_Name":"Reza","Last_Name":"AhmadNezhad","National_ID":"1234567891","Gender":"M","Date_of_Birth":"71/2/1"}, {"First_Name":"Ali","Last_Name":"Mohamadi","National_ID":"2159753217","Gender":"M","Date_of_Birth":"69/5/1"}, {"First_Name":"Mahdi","Last_Name":"Rezaei","National_ID":"6325987456","Gender":"M","Date_of_Birth":"70/1/10"}, {"First_Name":"Mohammad","Last_Name":"Alavi","National_ID":"3214895463","Gender":"M","Date_of_Birth":"60/5/8"}, {"First_Name":"Hossein","Last_Name":"Sherafat","National_ID":"4598563214","Gender":"M","Date_of_Birth":"65/5/9"}, {"First_Name":"Ramin","Last_Name":"Moradi","National_ID":"4512302589","Gender":"M","Date_of_Birth":"50/8/7"}, {"First_Name":"Zahra","Last_Name":"Nadiri","National_ID":"1263045872","Gender":"F","Date_of_Birth":"70/8/9"}, {"First_Name":"Abbas","Last_Name":"Jahani","National_ID":"4123602159","Gender":"M","Date_of_Birth":"65/7/12"}, {"First_Name":"Sahar","Last_Name":"Mohebi","National_ID":"1549230148","Gender":"F","Date_of_Birth":"66/7/21"}, {"First_Name":"Nahid","Last_Name":"Rezaei","National_ID":"1592034579","Gender":"F","Date_of_Birth":"68/9/27"}])

{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("6036d295400c50827af2433e"),
    ObjectId("6036d295400c50827af2433f"),
    ObjectId("6036d295400c50827af24340"),
    ObjectId("6036d295400c50827af24341"),
    ObjectId("6036d295400c50827af24342"),
    ObjectId("6036d295400c50827af24343"),
    ObjectId("6036d295400c50827af24344"),
    ObjectId("6036d295400c50827af24345"),
    ObjectId("6036d295400c50827af24346"),
    ObjectId("6036d295400c50827af24347")
  ]
}
```

```
> db.persons.find({}).pretty()
```

```
{
  "_id" : ObjectId("6036d3b8400c50827af24348"),
  "First_Name" : "Reza",
  "Last_Name" : "AhmadNezhad",
  "National_ID" : "1234567891",
  "Gender" : "M",
  "Date_of_Birth" : "71/2/1"
}
```

```
{
  "_id" : ObjectId("6036d3b8400c50827af24349"),
  "First_Name" : "Ali",
  "Last_Name" : "Mohamadi",
  "National_ID" : "2159753217",
  "Gender" : "M",
  "Date_of_Birth" : "69/5/1"
}
```

```
{
  "_id" : ObjectId("6036d3b8400c50827af2434a"),
  "First_Name" : "Mahdi",
  "Last_Name" : "Rezaei",
  "National_ID" : "6325987456",
  "Gender" : "M",
  "Date_of_Birth" : "70/1/10"
}
```

```
{
  "_id" : ObjectId("6036d3b8400c50827af2434b"),
  "First_Name" : "Mohammad",
  "Last_Name" : "Alavi",
  "National_ID" : "3214895463",
  "Gender" : "M",
  "Date_of_Birth" : "60/5/8"
}
```

```
{
  "_id" : ObjectId("6036d3b8400c50827af2434c"),
  "First_Name" : "Hosseini",
  "Last_Name" : "Sherafat",
  "National_ID" : "4598563214",
  "Gender" : "M",
  "Date_of_Birth" : "65/5/9"
}
```

```
{
  "_id" : ObjectId("6036d3b8400c50827af2434d"),
  "First_Name" : "Ramin",
  "Last_Name" : "Moradi",
  "National_ID" : "4512302589",
  "Gender" : "M",
  "Date_of_Birth" : "50/8/7"
}
```

3- نمایش تمام اطلاعات کارمندان با استفاده از دستور find()

```
> db.persons.find({"Gender":{"$eq:"M"}}).pretty()
{
  "_id" : ObjectId("6036d3b8400c50827af24348"),
  "First_Name" : "Reza",
  "Last_Name" : "AhmadNezhad",
  "National_ID" : "1234567891",
  "Gender" : "M",
  "Date_of_Birth" : "71/2/1"
}
{
  "_id" : ObjectId("6036d3b8400c50827af24349"),
  "First_Name" : "Ali",
  "Last_Name" : "Mohamadi",
  "National_ID" : "2159753217",
  "Gender" : "M",
  "Date_of_Birth" : "69/5/1"
}
{
  "_id" : ObjectId("6036d3b8400c50827af2434a"),
  "First_Name" : "Mahdi",
  "Last_Name" : "Rezaei",
  "National_ID" : "6325987456",
  "Gender" : "M",
  "Date_of_Birth" : "70/1/10"
}
{
  "_id" : ObjectId("6036d3b8400c50827af2434b"),
  "First_Name" : "Mohammad",
  "Last_Name" : "Alavi",
  "National_ID" : "3214895463",
  "Gender" : "M",
  "Date_of_Birth" : "60/5/8"
}
{
  "_id" : ObjectId("6036d3b8400c50827af2434c"),
  "First_Name" : "Hossein",
  "Last_Name" : "Sherafat",
  "National_ID" : "4598563214",
  "Gender" : "M",
  "Date_of_Birth" : "65/5/9"
}
{
  "_id" : ObjectId("6036d3b8400c50827af2434d"),
  "First_Name" : "Ramin",
  "Last_Name" : "Moradi",
  "National_ID" : "4512302589",
  "Gender" : "M",
  "Date_of_Birth" : "50/8/7"
}
```

4- نمایش اطلاعات کارمندان مرد

5- نمایش اطلاعات کارمندانی که نام و نام خانوادگی آن ها شامل حرف e می باشد

```
C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe

> db.persons.find({"First_Name":{"$in":["e/"]},"Last_Name":{"$in":["e/"]}}).pretty()

  "_id" : ObjectId("6036d3b8400c50827af24348"),
  "First_Name" : "Reza",
  "Last_Name" : "AhmadNezhad",
  "National_ID" : "1234567891",
  "Gender" : "M",
  "Date_of_Birth" : "71/2/1"

  "_id" : ObjectId("6036d3b8400c50827af2434c"),
  "First_Name" : "Hossein",
  "Last_Name" : "Sherafat",
  "National_ID" : "4598563214",
  "Gender" : "M",
  "Date_of_Birth" : "65/5/9"
```


7- پیدا کردن کارمندانی که کد ملی آنان با 1 شروع میشود

```
C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe
> db.persons.find({"National_ID":/^1/}).pretty();
{
  "_id" : ObjectId("6036d3b8400c50827af24348"),
  "First_Name" : "Reza",
  "Last_Name" : "AhmadNezhad",
  "National_ID" : "1234567891",
  "Gender" : "M",
  "Date_of_Birth" : "71/2/1"
}
{
  "_id" : ObjectId("6036d3b8400c50827af2434e"),
  "First_Name" : "Zahra",
  "Last_Name" : "Naderi",
  "National_ID" : "1263045872",
  "Gender" : "F",
  "Date_of_Birth" : "70/8/9"
}
{
  "_id" : ObjectId("6036d3b8400c50827af24350"),
  "First_Name" : "Sahar",
  "Last_Name" : "Mohebi",
  "National_ID" : "1549230148",
  "Gender" : "F",
  "Date_of_Birth" : "66/7/21"
}
{
  "_id" : ObjectId("6036d3b8400c50827af24351"),
  "First_Name" : "Nahid",
  "Last_Name" : "Rezaei",
  "National_ID" : "1592034579",
  "Gender" : "F",
  "Date_of_Birth" : "68/9/27"
}
```

8- به روز رسانی اطلاعات کارمندان اضافه کردن پسوند به نام خانوادگی

C:\Program Files\MongoDB\Server\4.4\bin\mongo.exe

```
> db.persons.update({"Last_Name":{"$eq:"AhmadNezhad"}},{ $set:{"Last_Name":"AhmadNezhad AliaBad"}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
>
```

```
> db.persons.find({"First_Name":{"$eq:"Reza"}}).pretty();
{
  "_id" : ObjectId("6036d3b8400c50827af24348"),
  "First_Name" : "Reza",
  "Last_Name" : "AhmadNezhad AliaBad",
  "National_ID" : "1234567891",
  "Gender" : "M",
  "Date_of_Birth" : "71/2/1"
}
>
```