

1) Create a database called **person** & create collection called **details**

```
> use person
switched to db person
> db.createCollection('details')
{ "ok" : 1 }
> show collections
details
```

2) Create the above 6 person's details documents.

```
> db.details.insert([{'Name': 'Ragu', 'Age': '18', 'Salary': '8000'}, {'Name': 'Dinesh', 'Age': '20', 'Salary': '10000'}, {'Name': 'Rajesh', 'Age': '40', 'Salary': '35000'}, {'Name': 'Nila', 'Age': '50', 'Salary': '15000'}, {'Name': 'Malar', 'Age': '61', 'Salary': '20000'}, {'Name': 'Ramani', 'Age': '65', 'Salary': '20000'}])
BulkWriteResult({
  "writeErrors" : [ ],
  "writeConcernErrors" : [ ],
  "nInserted" : 6,
  "nUpserted" : 0,
  "nMatched" : 0,
  "nModified" : 0,
  "nRemoved" : 0,
  "upserted" : [ ]
})
```

3) Find the persons following these conditions

1) Age > 50

```
> db.details.find({'Age': {$gt: '50'}})
{ "_id" : ObjectId("5b3de163160ea69167e6d175"), "Name" : "Malar", "Age" : "61", "Salary" : "20000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d176"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000" }
>
```

2) Age < 50

```
> db.details.find({'Age': {$lt: '50'}})
{ "_id" : ObjectId("5b3de163160ea69167e6d171"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d172"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d173"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000" }
```

3) Salary=20000/=

```

> db.details.find($and:[{'Age':{$lt:'50'}},{$gt:'20000'}}])
2018-07-05T15:40:17.060+0530 E QUERY [thread1] SyntaxError: missing ) after a
rgument list @(shell):1:20
> db.details.find($and:[{"Age":{$lt:'50'}}, {"Salary":{$gt:'20000'}}])
{ "_id" : ObjectId("5b3de163160ea69167e6d171"), "Name" : "Ragu", "Age" : "18", "
Salary" : "8000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d173"), "Name" : "Rajesh", "Age" : "40",
"Salary" : "35000" }
>

```

4) Salary <= 20000/=

```

> db.details.find({'Salary':{$lte:'20000'}})
{ "_id" : ObjectId("5b3de163160ea69167e6d172"), "Name" : "Dinesh", "Age" : "20",
"Salary" : "10000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d174"), "Name" : "Nila", "Age" : "50", "
Salary" : "15000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d175"), "Name" : "Malar", "Age" : "61",
"Salary" : "20000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d176"), "Name" : "Ramani", "Age" : "65",
"Salary" : "20000" }
>

```

5) Salary < 20000/=

```

> db.details.find({'Salary':{$lt:'20000'}})
{ "_id" : ObjectId("5b3de163160ea69167e6d172"), "Name" : "Dinesh", "Age" : "20",
"Salary" : "10000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d174"), "Name" : "Nila", "Age" : "50", "
Salary" : "15000" }
>

```

6) Salary > 20000/=

```

> db.details.find({'Salary':{$gt:'20000'}})
{ "_id" : ObjectId("5b3de163160ea69167e6d171"), "Name" : "Ragu", "Age" : "18", "
Salary" : "8000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d173"), "Name" : "Rajesh", "Age" : "40",
"Salary" : "35000" }
>

```

7) Age < 50 & Salary > 20000/=

```

> db.details.find($and:[{'Age':{$lt:'50'}},{$gt:'20000'}}])
2018-07-05T15:40:17.060+0530 E QUERY [thread1] SyntaxError: missing ) after a
rgument list @(shell):1:20
> db.details.find($and:[{"Age":{$lt:'50'}}, {"Salary":{$gt:'20000'}}])
{ "_id" : ObjectId("5b3de163160ea69167e6d171"), "Name" : "Ragu", "Age" : "18", "
Salary" : "8000" }
{ "_id" : ObjectId("5b3de163160ea69167e6d173"), "Name" : "Rajesh", "Age" : "40",
"Salary" : "35000" }
>

```

8) Age < 50 or Salary > 20000/=

```
> db.details.find({$or:[{"Age":{"$lt:'50'}},{ "Salary":{"$gt:20000}}]}).pretty()
{
  "_id" : ObjectId("5b3de163160ea69167e6d171"),
  "Name" : "Ragu",
  "Age" : "18",
  "Salary" : "8000"
}
{
  "_id" : ObjectId("5b3de163160ea69167e6d172"),
  "Name" : "Dinesh",
  "Age" : "20",
  "Salary" : "10000"
}
{
  "_id" : ObjectId("5b3de163160ea69167e6d173"),
  "Name" : "Rajesh",
  "Age" : "40",
  "Salary" : "35000"
}
>
```

9) Age < 20 or Salary >= 10000/=

```
> db.details.find({$or:[{"Age":{"$lt:'20'}},{ "Salary":{"$gte:10000}}]}).pretty()
{
  "_id" : ObjectId("5b3de163160ea69167e6d171"),
  "Name" : "Ragu",
  "Age" : "18",
  "Salary" : "8000"
}
>
```

10) Age <= 20 and Salary >= 10000/=

```
> db.details.find({$and:[{"Age":{"$lt:'20'}},{ "Salary":{"$gte:'10000'}}]}).pretty()
{
  "_id" : ObjectId("5b3de163160ea69167e6d171"),
  "Name" : "Ragu",
  "Age" : "18",
  "Salary" : "8000"
}
>
```