

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

- Use **person**
- **db.createCollection('details')**

```
> use person
switched to db person
>
>
> db.createCollection('details')
{ "ok" : 1 }
>
>
> show dbs
admin      0.000GB
config     0.000GB
local      0.000GB
music      0.000GB
person     0.000GB
uki3       0.000GB
>
>
> 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/='}])**

```
> 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" : [ ]
})
>
>
```

5', 'Salary':'20000/=']])

3) Find the persons following this conditions

1. Age > 50

db.details.find({'Age':{'\$gt':'50'}})

```
>
> db.details.find({'Age':{'$gt':'50'}})
{ "_id" : ObjectId("5b3de3ce84caf681c2409dce"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcf"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
>
```

2. Age < 50

```
db.details.find({'Age':{'$lt':'50'}})
```

```
> db.details.find({'Age':{'$lt':'50'}})
{ "_id" : ObjectId("5b3de3ce84caf681c2409dca"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcb"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcc"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000/=" }
>
```

3. Salary = 20000/=

```
db.details.find({'Salary':'20000/='})
```

```
> db.details.find({'Salary':'20000/='})
{ "_id" : ObjectId("5b3de3ce84caf681c2409dce"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcf"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
>
```

4. Salary < 20000

```
db.details.find({'Salary':{'$lt':'20000/='}})
```

```
> db.details.find({'Salary':{'$lt':'20000/='}})
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcb"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcd"), "Name" : "Nila", "Age" : "50", "Salary" : "15000" }
>
```

5. Salary > 20000

```
db.details.find({'Salary':{'$gt':'20000/='}})
```

```
> db.details.find({'Salary':{'$gt':'20000/='}})
{ "_id" : ObjectId("5b3de3ce84caf681c2409dca"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcc"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000/=" }
>
```

6. Salary <= 20000

```
db.details.find({'Salary':{'$lte':'20000/='}})
```

```
> db.details.find({'Salary':{'$lte':'20000/='}})
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcb"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcd"), "Name" : "Nila", "Age" : "50", "Salary" : "15000" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dce"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcf"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
>
```

7. Age < 50 & Salary > 20000/=

```
db.details.find({$and:[{'Age':{$lt:'50'}},{'Salary':{$gt:'20000/='}}]})
```

```
> db.details.find({$and:[{'Age':{$lt:'50'}},{'Salary':{$gt:'20000/='}}]})
{ "_id" : ObjectId("5b3de3ce84caf681c2409dca"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5b3de3ce84caf681c2409dcc"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000/=" }
```

8. Age < 50 or Salary > 20000/=

```
db.details.find({$or:[{'Age':{$lt:'50'}},{'Salary':{$gt:'20000/='}}]}).pretty()
```

```
> db.details.find({$or:[{'Age':{$lt:'50'}},{'Salary':{$gt:'20000/='}}]}).pretty()
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dca"),
  "Name" : "Ragu",
  "Age" : "18",
  "Salary" : "8000/="
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dcb"),
  "Name" : "Dinesh",
  "Age" : "20",
  "Salary" : "10000/="
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dcc"),
  "Name" : "Rajesh",
  "Age" : "40",
  "Salary" : "35000/="
}
```

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

```
db.details.find({$or:[{'Age':{$lt:'20'}},{'Salary':{$gte:'10000/='}}]}).pretty()
```

```
>
> db.details.find({$or:[{'Age':{$lt:'20'}},{'Salary':{$gte:'10000/='}}]}).pretty()
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dca"),
  "Name" : "Ragu",
  "Age" : "18",
  "Salary" : "8000/="
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dcb"),
  "Name" : "Dinesh",
  "Age" : "20",
  "Salary" : "10000/="
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dcc"),
  "Name" : "Rajesh",
  "Age" : "40",
  "Salary" : "35000/="
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dcd"),
  "Name" : "Nila",
  "Age" : "50",
  "Salary" : "15000"
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dce"),
  "Name" : "Malar",
  "Age" : "61",
  "Salary" : "20000/="
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dcf"),
  "Name" : "Ramani",
  "Age" : "65",
  "Salary" : "20000/="
}
>
```

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

```
db.details.find({$and:[{'Age':{$lte:'20'}},{'Salary':{$gte:'10000/='}}]}).pretty()
```

```
>
> db.details.find({$and:[{'Age':{$lte:'20'}},{'Salary':{$gte:'10000/='}}]}).pretty()
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dca"),
  "Name" : "Ragu",
  "Age" : "18",
  "Salary" : "8000/="
}
{
  "_id" : ObjectId("5b3de3ce84caf681c2409dcb"),
  "Name" : "Dinesh",
  "Age" : "20",
  "Salary" : "10000/="
}
>
```

