

Mongo DB Exercise

Create a Database called **person**

- use person

```
ok: 1
> use person
switched to db person
>
```

Create collection called **details**

- db.createCollection("details")

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

Insert The Following Datas in Database

Name	Age	Salary
Ragu	18	8000/=
Dinesh	20	10000/=
Rajesh	40	35000/=
Nila	50	15000/=
Malar	61	20000/=
Ramani	65	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'
}
])
```

```
> db.details.find()
> 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'
... }
... ]])
```

To show What that Database contain...

db.details.find()

```
> db.details.find()
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af71"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af72"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af73"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af74"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af75"), "Name" : "Malar", "Age" : "61", "Salary" : "20000" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af76"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000" }
>
```

3) Find the persons following these conditions

1. Age > 50

```
db.details.find({"Age":{"$gt":"50"}})
```

```
> db.details.find({"Age":{"$gt":"50"}})
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af75"), "Name" : "Malar", "Age" : "61", "Salary" : "20000" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af76"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000" }
```

2. Age < 50

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

```
> db.details.find({"Age":{"$lt":"50"}})
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af71"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af72"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af73"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000" }
```

3. Salary=20000/=

```
db.details.find({"Salary":"20000"})
```

```
> db.details.find({"Salary":"20000"})
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af75"), "Name" : "Malar", "Age" : "61", "Salary" : "20000" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af76"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000" }
```

4. Salary <= 20000/=

```
db.details.find({"Salary":{"$lte":20000}})
```

```
> db.details.find({"Salary":{"$lte":20000}})
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af72"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af74"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af75"), "Name" : "Malar", "Age" : "61", "Salary" : "20000" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af76"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000" }
```

5. Salary < 20000/=

```
db.details.find({"Salary":{"$lt":20000}})
```

```
> db.details.find({"Salary":{"$lt":20000}})
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af72"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af74"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
```

6. Salary > 20000/=

```
db.details.find({"Salary":{"$gt":20000}})
```

```
> db.details.find({"Salary":{"$gt":"20000"}})
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af71"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af73"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000" }
```

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("5a3b523fa83e95ea50a4af71"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af73"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000" }
```

8. Age < 50 or Salary > 20000/=

db.details.find({ \$or: [{"Age":{"\$lt":"50"}}, {"Salary":{"\$gt":"20000"}}] })

```
> db.details.find({ $or: [ {"Age":{"$lt":"50"}}, {"Salary":{"$gt":"20000"}} ] } )
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af71"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af72"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af73"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000" }
```

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

db.details.find({ \$or: [{"Age":{"\$lt":"20"}}, {"Salary":{"\$gte":"10000"}}] })

```
> db.details.find({ $or: [ {"Age":{"$lt":"20"}}, {"Salary":{"$gte":"10000"}} ] } )
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af71"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af72"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af73"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af74"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af75"), "Name" : "Malar", "Age" : "61", "Salary" : "20000" }
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af76"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000" }
```

10. A

ge <= 20 and Salary >= 10000/=

db.details.find({ \$and: [{"Age":{"\$lte":"20"}}, {"Salary":{"\$gte":"20000"}}] })

```
> db.details.find({ $and: [ {"Age":{"$lte":"20"}}, {"Salary":{"$gte":"20000"}} ] } )
{ "_id" : ObjectId("5a3b523fa83e95ea50a4af71"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
```

Thank You...