Mongo DB Exercise 1

Create a Database called **person**

- use person

```
> 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.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 this conditions

1. Age > 50

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

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