

MongoDB Exercise 1

Create a database **person**

```
local 0.078GB
> use person
switched to db person
> show collections
2017-12-21T12:43:42.703+0530 don't know how to show [collections] at src/mongo/shell/utils.js:729
> show dbs
admin (empty)
local 0.078GB
> dbs
2017-12-21T12:44:02.469+0530 ReferenceError: dbs is not defined
> db
person
>
```

create collection **details**

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

Create the above 6 person's details documents.

```
ukistu10@ukipc10: ~
... 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',
...   },
... ])
ukistu10@ukipc10: ~
```

```
> db.details.find()
{ "_id" : ObjectId("5a3b67ca09e333574d772105"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772106"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772107"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772108"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772109"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d77210a"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
>
```

Find the persons following this conditions

1. Age > 50

{Age: {\$gt:"50"}}

```
> db.details.find({Age:{$gt:"50"}})
{ "_id" : ObjectId("5a3b67ca09e333574d772109"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d77210a"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
> db.details.find({Age:{$gt:50}})
```

2. Age < 50

{Age: {\$lt:"50"}}

```
> db.details.find({Age:{$lt:"50"}})
{ "_id" : ObjectId("5a3b67ca09e333574d772105"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772106"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772107"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000/=" }
```

3. Salary=20000/=

{"Salary":"20000/="}

```
> db.details.find({"Salary":"20000/="})
{ "_id" : ObjectId("5a3b67ca09e333574d772109"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d77210a"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
```

4. Salary <= 20000/=

{"Salary" : {\$lte:"20000/="}}

```
> db.details.find({"Salary" : {$lte:"20000/="}})
{ "_id" : ObjectId("5a3b67ca09e333574d77210a"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772106"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772108"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772109"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d77210a"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
```

5. Salary < 20000/=

{"Salary" : {\$lt:"20000/="}}

```
> db.details.find( {"Salary":{$lt:"20000/="}})
{ "_id" : ObjectId("5a3b67ca09e333574d772106"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772108"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
```

6. Salary > 20000/=

{"Salary" : {\$gt:"20000/="}}

```

> db.details.find({"Salary":{"$gt":"20000/="}})
{ "_id" : ObjectId("5a3b67ca09e333574d772105"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772107"), "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("5a3b67ca09e333574d772105"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772107"), "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("5a3b67ca09e333574d772105"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772106"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772107"), "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("5a3b67ca09e333574d772105"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772106"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772107"), "Name" : "Rajesh", "Age" : "40", "Salary" : "35000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772108"), "Name" : "Nila", "Age" : "50", "Salary" : "15000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772109"), "Name" : "Malar", "Age" : "61", "Salary" : "20000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d77210a"), "Name" : "Ramani", "Age" : "65", "Salary" : "20000/=" }
>

```

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

```

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

```

```

> db.details.find(
... {
...   $and: [
...     {Age:{$lte:"20"}}, {Salary:{$gte:"10000/="}}
...   ]
... }
... )
{ "_id" : ObjectId("5a3b67ca09e333574d772105"), "Name" : "Ragu", "Age" : "18", "Salary" : "8000/=" }
{ "_id" : ObjectId("5a3b67ca09e333574d772106"), "Name" : "Dinesh", "Age" : "20", "Salary" : "10000/=" }
>

```