

```
>_MONGOSH
```

```
> use gescom
< switched to db gescom
> show collections
< employes
> db.employes.find()
< {
  _id: ObjectId("511d0a9f181b16509ae5f7d8"),
  nom: 'Dupond',
  prenom: 'Jean',
  anciennete: 10,
  adresse: {
    numero: 77,
    codepostal: 31000,
    ville: 'Toulouse'
  }
}
```

```
> db.employes.countDocuments()
< 48
gescom>
```

```
> db.employes.insertOne({nom: 'Ferjani', prenom: 'Nader', prime: 4000})
< {
  acknowledged: true,
  insertedId: ObjectId("6565fbf481b79f910ced5d5c")
}
gescom> |
```

```
> db.employes.insertMany([{nom: 'Elayeb', prenom: 'Oussama', anciennete: 18}])
< {
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6565fc2081b79f910ced5d5d")
  }
}
gescom>
```

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```
> db.employees.find({prenom: 'David'})
```

```
< {
  _id: ObjectId("511d0a9f181b16509ae5f7d9"),
  nom: 'King',
  prenom: 'David',
  anciennete: 27,
  adresse: {
    numero: 78,
    codepostal: 33000,
    ville: 'Bordeaux'
  }
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7df"),
  nom: 'Ving',
  prenom: 'David',
  anciennete: 17,
```

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```
> db.employees.find({prenom: /^D\w{4}$/})
```

```
< {
  _id: ObjectId("511d0a9f181b16509ae5f7d9"),
  nom: 'King',
  prenom: 'David',
  anciennete: 27,
  adresse: {
    numero: 78,
    codepostal: 33000,
    ville: 'Bordeaux'
  }
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7df"),
  nom: 'Ving',
  prenom: 'David',
  anciennete: 17,
  adresse: {
```

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```

```
> db.employees.find({prenom: /^D|d$/})
< {
  _id: ObjectId("511d0a9f181b16509ae5f7d9"),
  nom: 'King',
  prenom: 'David',
  anciennete: 27,
  adresse: {
    numero: 78,
    codepostal: 33000,
    ville: 'Bordeaux'
  }
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7df"),
  nom: 'Ving',
  prenom: 'David',
  anciennete: 17,
```

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```

```
> db.employees.find({prenom: /^[AEIOUIY] | [aeouiy]$/})
< {
  _id: ObjectId("511d0a9f181b16509ae5f7da"),
  nom: 'Ossola',
  prenom: 'Christophe',
  anciennete: 7,
  adresse: {
    numero: 75,
    codepostal: 75000,
    ville: 'Paris'
  }
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7dd"),
  nom: 'Leberre',
  prenom: 'Stephanie',
  anciennete: 1,
```

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```
> db.employees.find({prenom: /^(w)\w*\1$/i})
< {
  _id: ObjectId("511d0a9f181b16509ae5f7d9"),
  nom: 'King',
  prenom: 'David',
  anciennete: 27,
  adresse: {
    numero: 78,
    codepostal: 33000,
    ville: 'Bordeaux'
  }
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7df"),
  nom: 'Ving',
  prenom: 'David',
  anciennete: 17,
```

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```
> db.employees.find({"adresse.rue": {$exists: true}}, {nom: 1, prenom: 1, _id:0})
< {
  nom: 'Monnin',
  prenom: 'Gilles'
}
{
  nom: 'Motin',
  prenom: 'Roger'
}
{
  nom: 'Mani',
  prenom: 'Dominique'
}
{
  nom: 'Autran',
  prenom: 'Vincent'
}
{
  nom: 'Potin',
  prenom: 'Stephanie'
```

```
> db.employees.updateMany({prime: {$exists: true}}, {$inc: {prime: 200}})
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 8,
  modifiedCount: 8,
  upsertedCount: 0
}
> db.employees.find().sort({anciennete: -1}).limit(3)
< {
  _id: ObjectId("511d0aa0181b16509ae5f7eb"),
  nom: 'Bouras',
  prenom: 'Gerardo',
  anciennete: 27,
  adresse: {
    numero: 34,
    codepostal: 33000,
    ville: 'Bordeaux'
  }
}
```

```
> db.employees.find().sort({anciennete: -1}).limit(3)
< {
  _id: ObjectId("511d0aa0181b16509ae5f7eb"),
  nom: 'Bouras',
  prenom: 'Gerardo',
  anciennete: 27,
  adresse: {
    numero: 34,
    codepostal: 33000,
    ville: 'Bordeaux'
  }
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7d9"),
  nom: 'King',
  prenom: 'David',
  anciennete: 27,
  adresse: {
    numero: 78,
```

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```
> db.employees.find({anciennete: {$gt: 10}}, {nom: 1, prenom: 1})
```

```
< {
  _id: ObjectId("511d0a9f181b16509ae5f7d9"),
  nom: 'King',
  prenom: 'David'
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7de"),
  nom: 'Rupont',
  prenom: 'Jean'
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7df"),
  nom: 'Ving',
  prenom: 'David'
}
{
```

```
> db.employees.find({"adresse.ville": "Toulouse"})
```

```
< {
  _id: ObjectId("511d0a9f181b16509ae5f7d8"),
  nom: 'Dupond',
  prenom: 'Jean',
  anciennete: 10,
  adresse: {
    numero: 77,
    codepostal: 31000,
    ville: 'Toulouse'
  }
}
{
  _id: ObjectId("511d0a9f181b16509ae5f7db"),
  nom: 'Monnin',
  prenom: 'Gilles',
  anciennete: 2,
  adresse: {
```

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```
> db.employees.updateOne({nom: 'Mani', prenom: 'Dominique'}, {$set: {adresse: {numero: 20, ville: 'Marseille', codepostal: 13015}}})
```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
> db.employees.find({prenom: {$in: ["Dominique", "Mani"]}})
```

```
< {
  _id: ObjectId("511d0aa0181b16509ae5f7e7"),
  nom: 'Mani',
  prenom: 'Dominique',
  anciennete: 2,
  adresse: {
    numero: 20,
    ville: 'Marseille',
    codepostal: 13015
  }
}
```

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```
> db.employees.find({$and: [{prenom: /^M/}, {"adresse.ville": {$in: ['Foix', 'Bordeaux']}}]})
```

```
< {
  _id: ObjectId("511d0aa0181b16509ae5f7f5"),
  nom: 'Chirac',
  prenom: 'Melanie',
  anciennete: 1,
  adresse: {
    numero: 17,
    codepostal: 9500,
    ville: 'Foix'
  },
  tel: 561607852,
  prime: 1700
}
{
  _id: ObjectId("511d0aa0181b16509ae5f7f7"),
  nom: 'Julien',
  prenom: 'Marie',
  anciennete: 11,
  adresse: {
    numero: 19,
```

```
> db.employees.updateMany({prime: {$exists: false}, "adresse.ville": {$nin: ['Toulouse', 'Bordeaux', 'Paris']}}, {$set: {prime: 1500}})
```

```
< {
  acknowledged: true,
  insertedId: null,
  matchedCount: 9,
  modifiedCount: 9,
  upsertedCount: 0
}
> db.employees.find({prime: {$exists: false}, "adresse.ville": {$nin: ['Toulouse', 'Bordeaux', 'Paris']}})
<
> db.employees.find({"adresse.ville": {$nin: ['Toulouse', 'Bordeaux', 'Paris']}})
< {
```

```
  _id: ObjectId("511d0a9f181b16509ae5f7dc"),
  nom: 'Priou',
  prenom: 'Franck',
  anciennete: 5,
  adresse: {
    numero: 79,
```