// DBMSL B2 – 31139 (Durvesh) //Comparison Operators

```
db.employees2.insertMany([{name:'a',city:'vellore',salary:10000},{name:'b',city:'mumbai',salary:100
00}, {name: 'c', city: 'vellore', salary: 100000}, {name: 'd', city: 'mumbai', salary: 30000}, {name: 'e', city: 'delhi'
,salary:300000}])
{
    "acknowledged": true,
    "insertedIds":[
         ObjectId("5f8fe04165e78575f2b130d2"),
         ObjectId("5f8fe04165e78575f2b130d3"),
         ObjectId("5f8fe04165e78575f2b130d4"),
         ObjectId("5f8fe04165e78575f2b130d5"),
         ObjectId("5f8fe04165e78575f2b130d6")
    ]
}
> db.employees2.find()
{ "_id" : ObjectId("5f8fe04165e78575f2b130d2"), "name" : "a", "city" : "vellore", "salary" : 10000 }
{ "id": ObjectId("5f8fe04165e78575f2b130d3"), "name": "b", "city": "mumbai", "salary": 10000}
{ " id" : ObjectId("5f8fe04165e78575f2b130d4"), "name" : "c", "city" : "vellore", "salary" : 100000 }
{ "\_id" : ObjectId("5f8fe04165e78575f2b130d5"), "name" : "d", "city" : "mumbai", "salary" : 30000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d6"), "name" : "e", "city" : "delhi", "salary" : 300000 }
>
> db.employees2.find({salary:{$eq:10000}})
{ "_id" : ObjectId("5f8fe04165e78575f2b130d2"), "name" : "a", "city" : "vellore", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d3"), "name" : "b", "city" : "mumbai", "salary" : 10000 }
> db.employees2.find({city:{$eq:'vellore'}})
```

```
{ "_id" : ObjectId("5f8fe04165e78575f2b130d2"), "name" : "a", "city" : "vellore", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d4"), "name" : "c", "city" : "vellore", "salary" : 100000 }
> db.employees2.find({salary:{$gte:100000}})
{ "_id" : ObjectId("5f8fe04165e78575f2b130d4"), "name" : "c", "city" : "vellore", "salary" : 100000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d6"), "name" : "e", "city" : "delhi", "salary" : 300000 }
> db.employees2.find({city:{$in:['vellore','mumbai']}})
{ "_id" : ObjectId("5f8fe04165e78575f2b130d2"), "name" : "a", "city" : "vellore", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d3"), "name" : "b", "city" : "mumbai", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d4"), "name" : "c", "city" : "vellore", "salary" : 100000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d5"), "name" : "d", "city" : "mumbai", "salary" : 30000 }
> db.employees2.find({salary:{$lt:50000}})
{ "_id" : ObjectId("5f8fe04165e78575f2b130d2"), "name" : "a", "city" : "vellore", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d3"), "name" : "b", "city" : "mumbai", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d5"), "name" : "d", "city" : "mumbai", "salary" : 30000 }
> db.employees2.find({city:{$ne:'delhi'}})
{ "_id" : ObjectId("5f8fe04165e78575f2b130d2"), "name" : "a", "city" : "vellore", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d3"), "name" : "b", "city" : "mumbai", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d4"), "name" : "c", "city" : "vellore", "salary" : 100000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d5"), "name" : "d", "city" : "mumbai", "salary" : 30000 }
> db.employees2.find({city:{$nin:['delhi','mumbai']}})
{ "_id" : ObjectId("5f8fe04165e78575f2b130d2"), "name" : "a", "city" : "vellore", "salary" : 10000 }
{ "_id" : ObjectId("5f8fe04165e78575f2b130d4"), "name" : "c", "city" : "vellore", "salary" : 100000 }
>
```

// Logical Operators

```
db.employees.insertMany([{name:'jitendra',country:'india',salary:20000},{name:'jinesh',country:'indi
a',salary:5000},{name:'dinesh',country:'india',salary:30000}])
{
    "acknowledged": true,
    "insertedIds":[
        ObjectId("5f8fdb0865e78575f2b130cc"),
        ObjectId("5f8fdb0865e78575f2b130cd"),
        ObjectId("5f8fdb0865e78575f2b130ce")
    ]
}
db.employees.insertMany([{name:'dinanath',country:'USA',salary:2000000},{name:'jignesh',country:
'UK',salary:509000},{name:'mark',country:'Kenya',salary:2000}])
{
    "acknowledged": true,
    "insertedIds":[
        ObjectId("5f8fdb8665e78575f2b130cf"),
        ObjectId("5f8fdb8665e78575f2b130d0"),
        ObjectId("5f8fdb8665e78575f2b130d1")
    ]
}
> db.employees.find()
{ "_id" : ObjectId("5f8fdb0865e78575f2b130cc"), "name" : "jitendra", "country" : "india", "salary" :
20000 }
{ "_id" : ObjectId("5f8fdb0865e78575f2b130cd"), "name" : "jinesh", "country" : "india", "salary" :
5000 }
{ "_id" : ObjectId("5f8fdb0865e78575f2b130ce"), "name" : "dinesh", "country" : "india", "salary" :
30000 }
```

```
{ "_id" : ObjectId("5f8fdb8665e78575f2b130cf"), "name" : "dinanath", "country" : "USA", "salary" :
2000000 }
{ " id": ObjectId("5f8fdb8665e78575f2b130d0"), "name": "jignesh", "country": "UK", "salary":
509000 }
{ "id": ObjectId("5f8fdb8665e78575f2b130d1"), "name": "mark", "country": "Kenya", "salary":
2000 }
> db.employees.find({$and:[{salary:{$gt:10000}},{country:'india'}]})
{ "_id" : ObjectId("5f8fdb0865e78575f2b130cc"), "name" : "jitendra", "country" : "india", "salary" :
20000 }
{ " id" : ObjectId("5f8fdb0865e78575f2b130ce"), "name" : "dinesh", "country" : "india", "salary" :
30000 }
> db.employees.find({$or:[{salary:{$gt:20000}},{country:'india'}]})
{ "id": ObjectId("5f8fdb0865e78575f2b130cc"), "name": "jitendra", "country": "india", "salary":
20000 }
{ "id": ObjectId("5f8fdb0865e78575f2b130cd"), "name": "jinesh", "country": "india", "salary":
5000 }
{ " id" : ObjectId("5f8fdb0865e78575f2b130ce"), "name" : "dinesh", "country" : "india", "salary" :
30000 }
{ "_id" : ObjectId("5f8fdb8665e78575f2b130cf"), "name" : "dinanath", "country" : "USA", "salary" :
2000000 }
{ "id": ObjectId("5f8fdb8665e78575f2b130d0"), "name": "jignesh", "country": "UK", "salary":
509000 }
> db.employees.find({$and:[{salary:{$gt:50000}},{country:{$not: {$eq:'india'}}}]})
{ "id": ObjectId("5f8fdb8665e78575f2b130cf"), "name": "dinanath", "country": "USA", "salary":
2000000 }
{ " id" : ObjectId("5f8fdb8665e78575f2b130d0"), "name" : "jignesh", "country" : "UK", "salary" :
509000 }
> db.employees.find({country:{$not: {$eq:'india'}}})
{ "_id" : ObjectId("5f8fdb8665e78575f2b130cf"), "name" : "dinanath", "country" : "USA", "salary" :
2000000 }
{ "_id" : ObjectId("5f8fdb8665e78575f2b130d0"), "name" : "jignesh", "country" : "UK", "salary" :
509000 }
{ " id" : ObjectId("5f8fdb8665e78575f2b130d1"), "name" : "mark", "country" : "Kenya", "salary" :
2000 }
```

// Save Method

// Outputs

```
> db.employees.find()
{ "_id" : ObjectId("5f8d12e1d31c0fe38ce15c8a"), "name" : "employee1", "salary" : 10000, "city" :
"vellore" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8b"), "name": "employee2", "salary": 10000, "city":
"vellore" }
{ "_id" : ObjectId("5f8d12e1d31c0fe38ce15c8c"), "name" : "employee3", "salary" : 200000, "city" :
"mumbai" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8d"), "name": "employee4", "salary": 1000000, "city":
"delhi" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8e"), "name": "employee5", "salary": 300000, "city":
"mumbai" }
{ "_id" : ObjectId("5f8d12e1d31c0fe38ce15c8f"), "name" : "employee6", "salary" : 30000, "city" :
"delhi" }
> db.employees.save({ id:101,name:"Ratan Tata",salary:1000000,city:"delhi"})
WriteResult({ "nMatched" : 0, "nUpserted" : 1, "nModified" : 0, " id" : 101 })
> db.employees.save({ id:101,name:"Ratan Tata",salary:1000000,city:"mumbai"})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.employees.find()
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8a"), "name": "employee1", "salary": 10000, "city":
"vellore" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8b"), "name": "employee2", "salary": 10000, "city":
"vellore" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8c"), "name": "employee3", "salary": 200000, "city":
"mumbai" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8d"), "name": "employee4", "salary": 1000000, "city":
"delhi" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8e"), "name": "employee5", "salary": 300000, "city":
"mumbai" }
{ "id": ObjectId("5f8d12e1d31c0fe38ce15c8f"), "name": "employee6", "salary": 30000, "city":
"delhi" }
{ " id": 101, "name": "Ratan Tata", "salary": 1000000, "city": "mumbai" }
```





