***// DBMSL B2 – 31139 (Durvesh)***

***//Comparison Operators***

> db.employees2.insertMany([{name:'a',city:'vellore',salary:10000},{name:'b',city:'mumbai',salary:10000},{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:'india',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***

> 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" }

>

***// Outputs***





