***// DBMSL B5 – 31139 (Durvesh)***

***// Design and implement any 5 query using MongoDB// Queries***

> use doorways

switched to db doorways

> db.teachers.insertOne({name:"Paresh",qualification:"MTech",deptno:1,deptname:"computer",designation:"assistant professor",experience:12,salary:{basic:20000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2008-06-01"),areaOfExpertise:"DBMS"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa2562cb06734c11a24749b")

}

> db.teachers.insertOne({name:"Sarvadnya",qualification:"PhD",deptno:1,deptname:"computer",designation:"HOD",experience:20,salary:{basic:75000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2000-06-01"),areaOfExpertise:"CN"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa25632b06734c11a24749c")

}

> db.teachers.insertOne({name:"Nilesh",qualification:"MTech",deptno:1,deptname:"computer",designation:"assistant professor",experience:10,salary:{basic:18000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2010-06-01"),areaOfExpertise:"DBMS"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa25639b06734c11a24749d")

}

> db.teachers.insertOne({name:"Digvijay",qualification:"PhD",deptno:2,deptname:"IT",designation:"HOD",experience:18,salary:{basic:75000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2002-06-01"),areaOfExpertise:"ML"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa25640b06734c11a24749e")

}

> db.teachers.insertOne({name:"Dhananjay",qualification:"ME",deptno:2,deptname:"IT",designation:"assistant professor",experience:15,salary:{basic:40000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2005-06-01"),areaOfExpertise:"AI"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa25646b06734c11a24749f")

}

> db.teachers.insertOne({name:"Dipesh",qualification:"ME",deptno:2,deptname:"IT",designation:"assistant professor",experience:13,salary:{basic:60000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2007-06-01"),areaOfExpertise:"ML"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa2564bb06734c11a2474a0")

}

> db.teachers.insertOne({name:"Ram",qualification:"PhD",deptno:3,deptname:"ENTC",designation:"HOD",experience:22,salary:{basic:80000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("1998-06-01"),areaOfExpertise:"Communication"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa25650b06734c11a2474a1")

}

> db.teachers.insertOne({name:"Sham",qualification:"ME",deptno:3,deptname:"ENTC",designation:"assistant professor",experience:5,salary:{basic:25000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2015-06-01"),areaOfExpertise:"Digital electronics"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa25656b06734c11a2474a2")

}

> db.teachers.insertOne({name:"Anil",qualification:"ME",deptno:3,deptname:"ENTC",designation:"assistant professor",experience:8,salary:{basic:40000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2012-06-01"),areaOfExpertise:"Digital electronics"})

{

"acknowledged" : true,

"insertedId" : ObjectId("5fa2565cb06734c11a2474a3")

}

>

>

>

>

>

> db.teachers.find()

{ "\_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "qualification" : "MTech", "deptno" : 1, "deptname" : "computer", "designation" : "assistant professor", "experience" : 12, "salary" : { "basic" : 20000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2008-06-01T00:00:00Z"), "areaOfExpertise" : "DBMS" }

{ "\_id" : ObjectId("5fa25632b06734c11a24749c"), "name" : "Sarvadnya", "qualification" : "PhD", "deptno" : 1, "deptname" : "computer", "designation" : "HOD", "experience" : 20, "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2000-06-01T00:00:00Z"), "areaOfExpertise" : "CN" }

{ "\_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "qualification" : "MTech", "deptno" : 1, "deptname" : "computer", "designation" : "assistant professor", "experience" : 10, "salary" : { "basic" : 18000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2010-06-01T00:00:00Z"), "areaOfExpertise" : "DBMS" }

{ "\_id" : ObjectId("5fa25640b06734c11a24749e"), "name" : "Digvijay", "qualification" : "PhD", "deptno" : 2, "deptname" : "IT", "designation" : "HOD", "experience" : 18, "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2002-06-01T00:00:00Z"), "areaOfExpertise" : "ML" }

{ "\_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "qualification" : "ME", "deptno" : 2, "deptname" : "IT", "designation" : "assistant professor", "experience" : 15, "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2005-06-01T00:00:00Z"), "areaOfExpertise" : "AI" }

{ "\_id" : ObjectId("5fa2564bb06734c11a2474a0"), "name" : "Dipesh", "qualification" : "ME", "deptno" : 2, "deptname" : "IT", "designation" : "assistant professor", "experience" : 13, "salary" : { "basic" : 60000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2007-06-01T00:00:00Z"), "areaOfExpertise" : "ML" }

{ "\_id" : ObjectId("5fa25650b06734c11a2474a1"), "name" : "Ram", "qualification" : "PhD", "deptno" : 3, "deptname" : "ENTC", "designation" : "HOD", "experience" : 22, "salary" : { "basic" : 80000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("1998-06-01T00:00:00Z"), "areaOfExpertise" : "Communication" }

{ "\_id" : ObjectId("5fa25656b06734c11a2474a2"), "name" : "Sham", "qualification" : "ME", "deptno" : 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 5, "salary" : { "basic" : 25000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2015-06-01T00:00:00Z"), "areaOfExpertise" : "Digital electronics" }

{ "\_id" : ObjectId("5fa2565cb06734c11a2474a3"), "name" : "Anil", "qualification" : "ME", "deptno" : 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 8, "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2012-06-01T00:00:00Z"), "areaOfExpertise" : "Digital electronics" }

> db.teachers.find({deptname:"computer"}).pretty()

{

"\_id" : ObjectId("5fa2562cb06734c11a24749b"),

"name" : "Paresh",

"qualification" : "MTech",

"deptno" : 1,

"deptname" : "computer",

"designation" : "assistant professor",

"experience" : 12,

"salary" : {

"basic" : 20000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2008-06-01T00:00:00Z"),

"areaOfExpertise" : "DBMS"

}

{

"\_id" : ObjectId("5fa25632b06734c11a24749c"),

"name" : "Sarvadnya",

"qualification" : "PhD",

"deptno" : 1,

"deptname" : "computer",

"designation" : "HOD",

"experience" : 20,

"salary" : {

"basic" : 75000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2000-06-01T00:00:00Z"),

"areaOfExpertise" : "CN"

}

{

"\_id" : ObjectId("5fa25639b06734c11a24749d"),

"name" : "Nilesh",

"qualification" : "MTech",

"deptno" : 1,

"deptname" : "computer",

"designation" : "assistant professor",

"experience" : 10,

"salary" : {

"basic" : 18000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2010-06-01T00:00:00Z"),

"areaOfExpertise" : "DBMS"

}

>

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> db.teachers.find({deptname:{$in:["computer","IT","ENTC"]}})

{ "\_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "qualification" : "MTech", "deptno" : 1, "deptname" : "computer", "designation" : "assistant professor", "experience" : 12, "salary" : { "basic" : 20000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2008-06-01T00:00:00Z"), "areaOfExpertise" : "DBMS" }

{ "\_id" : ObjectId("5fa25632b06734c11a24749c"), "name" : "Sarvadnya", "qualification" : "PhD", "deptno" : 1, "deptname" : "computer", "designation" : "HOD", "experience" : 20, "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2000-06-01T00:00:00Z"), "areaOfExpertise" : "CN" }

{ "\_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "qualification" : "MTech", "deptno" : 1, "deptname" : "computer", "designation" : "assistant professor", "experience" : 10, "salary" : { "basic" : 18000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2010-06-01T00:00:00Z"), "areaOfExpertise" : "DBMS" }

{ "\_id" : ObjectId("5fa25640b06734c11a24749e"), "name" : "Digvijay", "qualification" : "PhD", "deptno" : 2, "deptname" : "IT", "designation" : "HOD", "experience" : 18, "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2002-06-01T00:00:00Z"), "areaOfExpertise" : "ML" }

{ "\_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "qualification" : "ME", "deptno" : 2, "deptname" : "IT", "designation" : "assistant professor", "experience" : 15, "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2005-06-01T00:00:00Z"), "areaOfExpertise" : "AI" }

{ "\_id" : ObjectId("5fa2564bb06734c11a2474a0"), "name" : "Dipesh", "qualification" : "ME", "deptno" : 2, "deptname" : "IT", "designation" : "assistant professor", "experience" : 13, "salary" : { "basic" : 60000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2007-06-01T00:00:00Z"), "areaOfExpertise" : "ML" }

{ "\_id" : ObjectId("5fa25650b06734c11a2474a1"), "name" : "Ram", "qualification" : "PhD", "deptno" : 3, "deptname" : "ENTC", "designation" : "HOD", "experience" : 22, "salary" : { "basic" : 80000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("1998-06-01T00:00:00Z"), "areaOfExpertise" : "Communication" }

{ "\_id" : ObjectId("5fa25656b06734c11a2474a2"), "name" : "Sham", "qualification" : "ME", "deptno" : 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 5, "salary" : { "basic" : 25000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2015-06-01T00:00:00Z"), "areaOfExpertise" : "Digital electronics" }

{ "\_id" : ObjectId("5fa2565cb06734c11a2474a3"), "name" : "Anil", "qualification" : "ME", "deptno" : 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 8, "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2012-06-01T00:00:00Z"), "areaOfExpertise" : "Digital electronics" }

>

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>

> db.teachers.find({$and:[{"salary.basic":{$gte:70000}},{"salary.basic":{$lte:100000}},{deptname:{$in:["computer","IT","ENTC"]}}]}).pretty()

{

"\_id" : ObjectId("5fa25632b06734c11a24749c"),

"name" : "Sarvadnya",

"qualification" : "PhD",

"deptno" : 1,

"deptname" : "computer",

"designation" : "HOD",

"experience" : 20,

"salary" : {

"basic" : 75000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2000-06-01T00:00:00Z"),

"areaOfExpertise" : "CN"

}

{

"\_id" : ObjectId("5fa25640b06734c11a24749e"),

"name" : "Digvijay",

"qualification" : "PhD",

"deptno" : 2,

"deptname" : "IT",

"designation" : "HOD",

"experience" : 18,

"salary" : {

"basic" : 75000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2002-06-01T00:00:00Z"),

"areaOfExpertise" : "ML"

}

{

"\_id" : ObjectId("5fa25650b06734c11a2474a1"),

"name" : "Ram",

"qualification" : "PhD",

"deptno" : 3,

"deptname" : "ENTC",

"designation" : "HOD",

"experience" : 22,

"salary" : {

"basic" : 80000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("1998-06-01T00:00:00Z"),

"areaOfExpertise" : "Communication"

}

>

>

>

>

> db.teachers.update({name:"Digvijay"},{$set:{experience:10}},{upsert:true})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.teachers.find({name:"Digvijay"}).pretty()

{

"\_id" : ObjectId("5fa25640b06734c11a24749e"),

"name" : "Digvijay",

"qualification" : "PhD",

"deptno" : 2,

"deptname" : "IT",

"designation" : "HOD",

"experience" : 10,

"salary" : {

"basic" : 75000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2002-06-01T00:00:00Z"),

"areaOfExpertise" : "ML"

}

>

>

>

>

> db.teachers.find({},{name:1,experience:1}).sort({experience:-1}).pretty()

{

"\_id" : ObjectId("5fa25650b06734c11a2474a1"),

"name" : "Ram",

"experience" : 22

}

{

"\_id" : ObjectId("5fa25632b06734c11a24749c"),

"name" : "Sarvadnya",

"experience" : 20

}

{

"\_id" : ObjectId("5fa25646b06734c11a24749f"),

"name" : "Dhananjay",

"experience" : 15

}

{

"\_id" : ObjectId("5fa2564bb06734c11a2474a0"),

"name" : "Dipesh",

"experience" : 13

}

{

"\_id" : ObjectId("5fa2562cb06734c11a24749b"),

"name" : "Paresh",

"experience" : 12

}

{

"\_id" : ObjectId("5fa25639b06734c11a24749d"),

"name" : "Nilesh",

"experience" : 10

}

{

"\_id" : ObjectId("5fa25640b06734c11a24749e"),

"name" : "Digvijay",

"experience" : 10

}

{

"\_id" : ObjectId("5fa2565cb06734c11a2474a3"),

"name" : "Anil",

"experience" : 8

}

{

"\_id" : ObjectId("5fa25656b06734c11a2474a2"),

"name" : "Sham",

"experience" : 5

}

>

>

>

>

>

> db.teachers.save({\_id: ObjectId("5fa161eec75635cd6451dbc0"),name:"Sundar",qualification:"MTech",deptno:1,deptname:"computer",designation:"assistant professor",experience:14,salary:{basic:45000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2006-06-01"),areaOfExpertise:"DBMS"})

WriteResult({

"nMatched" : 0,

"nUpserted" : 1,

"nModified" : 0,

"\_id" : ObjectId("5fa161eec75635cd6451dbc0")

})

> db.teachers.find({name:"Sundar"}).pretty()

{

"\_id" : ObjectId("5fa161eec75635cd6451dbc0"),

"name" : "Sundar",

"qualification" : "MTech",

"deptno" : 1,

"deptname" : "computer",

"designation" : "assistant professor",

"experience" : 14,

"salary" : {

"basic" : 45000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2006-06-01T00:00:00Z"),

"areaOfExpertise" : "DBMS"

}

> db.teachers.save({\_id:ObjectId("5fa161eec75635cd6451dbc0"),name:"Sham",qualification:"ME",deptno:3,deptname:"ENTC",designation:"professor",experience:5,salary:{basic:25000,TA:1000,DA:1000,HRA:2000},date\_of\_joining:new Date("2015-06-01"),areaOfExpertise:"Digital electronics",appointment:"adhoc"})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

>

>

>

>

> db.teachers.deleteMany({appointment:"adhoc"})

{ "acknowledged" : true, "deletedCount" : 1 }

> db.teachers.find()

{ "\_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "qualification" : "MTech", "deptno" : 1, "deptname" : "computer", "designation" : "assistant professor", "experience" : 12, "salary" : { "basic" : 20000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2008-06-01T00:00:00Z"), "areaOfExpertise" : "DBMS" }

{ "\_id" : ObjectId("5fa25632b06734c11a24749c"), "name" : "Sarvadnya", "qualification" : "PhD", "deptno" : 1, "deptname" : "computer", "designation" : "HOD", "experience" : 20, "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2000-06-01T00:00:00Z"), "areaOfExpertise" : "CN" }

{ "\_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "qualification" : "MTech", "deptno" : 1, "deptname" : "computer", "designation" : "assistant professor", "experience" : 10, "salary" : { "basic" : 18000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2010-06-01T00:00:00Z"), "areaOfExpertise" : "DBMS" }

{ "\_id" : ObjectId("5fa25640b06734c11a24749e"), "name" : "Digvijay", "qualification" : "PhD", "deptno" : 2, "deptname" : "IT", "designation" : "HOD", "experience" : 10, "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2002-06-01T00:00:00Z"), "areaOfExpertise" : "ML" }

{ "\_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "qualification" : "ME", "deptno" : 2, "deptname" : "IT", "designation" : "assistant professor", "experience" : 15, "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2005-06-01T00:00:00Z"), "areaOfExpertise" : "AI" }

{ "\_id" : ObjectId("5fa2564bb06734c11a2474a0"), "name" : "Dipesh", "qualification" : "ME", "deptno" : 2, "deptname" : "IT", "designation" : "assistant professor", "experience" : 13, "salary" : { "basic" : 60000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2007-06-01T00:00:00Z"), "areaOfExpertise" : "ML" }

{ "\_id" : ObjectId("5fa25650b06734c11a2474a1"), "name" : "Ram", "qualification" : "PhD", "deptno" : 3, "deptname" : "ENTC", "designation" : "HOD", "experience" : 22, "salary" : { "basic" : 80000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("1998-06-01T00:00:00Z"), "areaOfExpertise" : "Communication" }

{ "\_id" : ObjectId("5fa25656b06734c11a2474a2"), "name" : "Sham", "qualification" : "ME", "deptno" : 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 5, "salary" : { "basic" : 25000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2015-06-01T00:00:00Z"), "areaOfExpertise" : "Digital electronics" }

{ "\_id" : ObjectId("5fa2565cb06734c11a2474a3"), "name" : "Anil", "qualification" : "ME", "deptno" : 3, "deptname" : "ENTC", "designation" : "assistant professor", "experience" : 8, "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 }, "date\_of\_joining" : ISODate("2012-06-01T00:00:00Z"), "areaOfExpertise" : "Digital electronics" }

>

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>

> db.teachers.find().sort({experience:1}).limit(3).pretty()

{

"\_id" : ObjectId("5fa25656b06734c11a2474a2"),

"name" : "Sham",

"qualification" : "ME",

"deptno" : 3,

"deptname" : "ENTC",

"designation" : "assistant professor",

"experience" : 5,

"salary" : {

"basic" : 25000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2015-06-01T00:00:00Z"),

"areaOfExpertise" : "Digital electronics"

}

{

"\_id" : ObjectId("5fa2565cb06734c11a2474a3"),

"name" : "Anil",

"qualification" : "ME",

"deptno" : 3,

"deptname" : "ENTC",

"designation" : "assistant professor",

"experience" : 8,

"salary" : {

"basic" : 40000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2012-06-01T00:00:00Z"),

"areaOfExpertise" : "Digital electronics"

}

{

"\_id" : ObjectId("5fa25640b06734c11a24749e"),

"name" : "Digvijay",

"qualification" : "PhD",

"deptno" : 2,

"deptname" : "IT",

"designation" : "HOD",

"experience" : 10,

"salary" : {

"basic" : 75000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2002-06-01T00:00:00Z"),

"areaOfExpertise" : "ML"

}

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>

> db.teachers.find({"designation":"HOD"}).sort({"salary.basic":-1}).pretty()

{

"\_id" : ObjectId("5fa25650b06734c11a2474a1"),

"name" : "Ram",

"qualification" : "PhD",

"deptno" : 3,

"deptname" : "ENTC",

"designation" : "HOD",

"experience" : 22,

"salary" : {

"basic" : 80000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("1998-06-01T00:00:00Z"),

"areaOfExpertise" : "Communication"

}

{

"\_id" : ObjectId("5fa25632b06734c11a24749c"),

"name" : "Sarvadnya",

"qualification" : "PhD",

"deptno" : 1,

"deptname" : "computer",

"designation" : "HOD",

"experience" : 20,

"salary" : {

"basic" : 75000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2000-06-01T00:00:00Z"),

"areaOfExpertise" : "CN"

}

{

"\_id" : ObjectId("5fa25640b06734c11a24749e"),

"name" : "Digvijay",

"qualification" : "PhD",

"deptno" : 2,

"deptname" : "IT",

"designation" : "HOD",

"experience" : 10,

"salary" : {

"basic" : 75000,

"TA" : 1000,

"DA" : 1000,

"HRA" : 2000

},

"date\_of\_joining" : ISODate("2002-06-01T00:00:00Z"),

"areaOfExpertise" : "ML"

}

>

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>

>

>

>

> db.teachers.find({},{name:1,salary:1}).sort({"salary.TA":1})

{ "\_id" : ObjectId("5fa2562cb06734c11a24749b"), "name" : "Paresh", "salary" : { "basic" : 20000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa25632b06734c11a24749c"), "name" : "Sarvadnya", "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa25639b06734c11a24749d"), "name" : "Nilesh", "salary" : { "basic" : 18000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa25640b06734c11a24749e"), "name" : "Digvijay", "salary" : { "basic" : 75000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa25646b06734c11a24749f"), "name" : "Dhananjay", "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa2564bb06734c11a2474a0"), "name" : "Dipesh", "salary" : { "basic" : 60000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa25650b06734c11a2474a1"), "name" : "Ram", "salary" : { "basic" : 80000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa25656b06734c11a2474a2"), "name" : "Sham", "salary" : { "basic" : 25000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

{ "\_id" : ObjectId("5fa2565cb06734c11a2474a3"), "name" : "Anil", "salary" : { "basic" : 40000, "TA" : 1000, "DA" : 1000, "HRA" : 2000 } }

***// Outputs:***





















