[jspm@localhost ~]$ su

Password:

[root@localhost jspm]# mongo

MongoDB shell version: 2.4.14

connecting to: test

> show dnname

Mon Sep 10 10:57:35.729 don't know how to show [dnname] at src/mongo/shell/utils.js:847

> show dbs

Abhi 0.203125GB

Order 0.203125GB

db 0.203125GB

info 0.203125GB

kirti 0.203125GB

local 0.078125GB

student 0.203125GB

student1 0.203125GB

test 0.203125GB

user 0.203125GB

> use kirti

switched to db kirti

> db.createCollection("student3")

> db.student3.insert({sname:"Kirti",rollno:1,class:"TE",marks:80,subject:"DBMS"})

> db.student3.insert({sname:"pooja",rollno:2,class:"SE",marks:70,subject:["DBMS","TOC"]})

> db.student3.insert({sname:"raj",rollno:3,class:"FE",marks:60,subject:["SEPM","DELD"]})

> db.student3.insert({sname:"geet",rollno:4,class:"BE",marks:90,subject:["ISEE","CG"]})

> db.student3.find().pretty()

{

"\_id" : ObjectId("5b9602465d6e29423d6dc539"),

"sname" : "Kirti",

"rollno" : 1,

"class" : "TE",

"marks" : 80,

"subject" : "DBMS"

}

{

"\_id" : ObjectId("5b9602985d6e29423d6dc53a"),

"sname" : "pooja",

"rollno" : 2,

"class" : "SE",

"marks" : 70,

"subject" : [

"DBMS",

"TOC"

]

}

{

"\_id" : ObjectId("5b9602c25d6e29423d6dc53b"),

"sname" : "raj",

"rollno" : 3,

"class" : "FE",

"marks" : 60,

"subject" : [

"SEPM",

"DELD"

]

}

{

"\_id" : ObjectId("5b9602eb5d6e29423d6dc53c"),

"sname" : "geet",

"rollno" : 4,

"class" : "BE",

"marks" : 90,

"subject" : [

"ISEE",

"CG"

]

}

> db.student3.ensureIndex({sname:1})

> db.student3.find().pretty()

{

"\_id" : ObjectId("5b9602465d6e29423d6dc539"),

"sname" : "Kirti",

"rollno" : 1,

"class" : "TE",

"marks" : 80,

"subject" : "DBMS"

}

{

"\_id" : ObjectId("5b9602985d6e29423d6dc53a"),

"sname" : "pooja",

"rollno" : 2,

"class" : "SE",

"marks" : 70,

"subject" : [

"DBMS",

"TOC"

]

}

{

"\_id" : ObjectId("5b9602c25d6e29423d6dc53b"),

"sname" : "raj",

"rollno" : 3,

"class" : "FE",

"marks" : 60,

"subject" : [

"SEPM",

"DELD"

]

}

{

"\_id" : ObjectId("5b9602eb5d6e29423d6dc53c"),

"sname" : "geet",

"rollno" : 4,

"class" : "BE",

"marks" : 90,

"subject" : [

"ISEE",

"CG"

]

}

> db.student3.ensureIndex({sname:-1})

> db.student3.find().pretty()

{

"\_id" : ObjectId("5b9602465d6e29423d6dc539"),

"sname" : "Kirti",

"rollno" : 1,

"class" : "TE",

"marks" : 80,

"subject" : "DBMS"

}

{

"\_id" : ObjectId("5b9602985d6e29423d6dc53a"),

"sname" : "pooja",

"rollno" : 2,

"class" : "SE",

"marks" : 70,

"subject" : [

"DBMS",

"TOC"

]

}

{

"\_id" : ObjectId("5b9602c25d6e29423d6dc53b"),

"sname" : "raj",

"rollno" : 3,

"class" : "FE",

"marks" : 60,

"subject" : [

"SEPM",

"DELD"

]

}

{

"\_id" : ObjectId("5b9602eb5d6e29423d6dc53c"),

"sname" : "geet",

"rollno" : 4,

"class" : "BE",

"marks" : 90,

"subject" : [

"ISEE",

"CG"

]

}

> db.student3.ensureIndex({sname:1})

> db.student3.getIndexes()

[

{

"v" : 1,

"name" : "\_id\_",

"key" : {

"\_id" : 1

},

"ns" : "kirti.student3"

},

{

"v" : 1,

"name" : "sname\_1",

"key" : {

"sname" : 1

},

"ns" : "kirti.student3"

},

{

"v" : 1,

"name" : "sname\_-1",

"key" : {

"sname" : -1

},

"ns" : "kirti.student3"

}

]

> db.student3.ensureIndex({sname:1,subject:-1,marks:1})

> db.student3.getIndexes()

[

{

"v" : 1,

"name" : "\_id\_",

"key" : {

"\_id" : 1

},

"ns" : "kirti.student3"

},

{

"v" : 1,

"name" : "sname\_1",

"key" : {

"sname" : 1

},

"ns" : "kirti.student3"

},

{

"v" : 1,

"name" : "sname\_-1",

"key" : {

"sname" : -1

},

"ns" : "kirti.student3"

},

{

"v" : 1,

"name" : "sname\_1\_subject\_-1\_marks\_1",

"key" : {

"sname" : 1,

"subject" : -1,

"marks" : 1

},

"ns" : "kirti.student3"

}

]

> db.student3.aggregate([{$match:{class:"TE"}}])

{

"result" : [

{

"\_id" : ObjectId("5b9602465d6e29423d6dc539"),

"sname" : "Kirti",

"rollno" : 1,

"class" : "TE",

"marks" : 80,

"subject" : "DBMS"

}

],

"ok" : 1

}

> db.student3.aggregate([{$match:{$and:[{class:"TE"},{marks:{$gt:80}}]}}])

{

"result" : [

{

"\_id" : ObjectId("5b960aed5d6e29423d6dc542"),

"sname" : "prrety",

"rollno" : 5,

"class" : "TE",

"marks" : 90,

"subject" : [

"ISEE",

"CG"

]

}

],

"ok" : 1

}

> db.student3.aggregate([{$match:{$or:[{class:"TE"},{class:"SE"}]}}])

{

"result" : [

{

"\_id" : ObjectId("5b9602465d6e29423d6dc539"),

"sname" : "Kirti",

"rollno" : 1,

"class" : "TE",

"marks" : 80,

"subject" : "DBMS"

},

{

"\_id" : ObjectId("5b9602985d6e29423d6dc53a"),

"sname" : "pooja",

"rollno" : 2,

"class" : "SE",

"marks" : 70,

"subject" : [

"DBMS",

"TOC"

]

},

{

"\_id" : ObjectId("5b960aed5d6e29423d6dc542"),

"sname" : "prrety",

"rollno" : 5,

"class" : "TE",

"marks" : 90,

"subject" : [

"ISEE",

"CG"

]

}

],

"ok" : 1

}

> db.student3.aggregate([{$project:{sname:1,class:1,marks:1}}])

{

"result" : [

{

"\_id" : ObjectId("5b9602465d6e29423d6dc539"),

"sname" : "Kirti",

"class" : "TE",

"marks" : 80

},

{

"\_id" : ObjectId("5b9602985d6e29423d6dc53a"),

"sname" : "pooja",

"class" : "SE",

"marks" : 70

},

{

"\_id" : ObjectId("5b9602c25d6e29423d6dc53b"),

"sname" : "raj",

"class" : "FE",

"marks" : 60

},

{

"\_id" : ObjectId("5b9602eb5d6e29423d6dc53c"),

"sname" : "geet",

"class" : "BE",

"marks" : 90

},

{

"\_id" : ObjectId("5b960aed5d6e29423d6dc542"),

"sname" : "prrety",

"class" : "TE",

"marks" : 90

}

],

"ok" : 1

}

> db.student3.aggregate([{$match:{class:"SE"}},{$project:{sname:1,marks:1}}])

{

"result" : [

{

"\_id" : ObjectId("5b9602985d6e29423d6dc53a"),

"sname" : "pooja",

"marks" : 70

}

],

"ok" : 1

}

> db.student3.aggregate([{$group:{\_id:{class:"$class"},Totalmarks:{$sum:"$sum"}}}])

{

"result" : [

{

"\_id" : {

"class" : "BE"

},

"Totalmarks" : 0

},

{

"\_id" : {

"class" : "FE"

},

"Totalmarks" : 0

},

{

"\_id" : {

"class" : "SE"

},

"Totalmarks" : 0

},

{

"\_id" : {

"class" : "TE"

},

"Totalmarks" : 0

}

],

"ok" : 1

}

> db.student3.aggregate([{$group:{\_id:{class:"$class"},Totalmarks:{$sum:"$marks"}}}])

{

"result" : [

{

"\_id" : {

"class" : "BE"

},

"Totalmarks" : 90

},

{

"\_id" : {

"class" : "FE"

},

"Totalmarks" : 60

},

{

"\_id" : {

"class" : "SE"

},

"Totalmarks" : 70

},

{

"\_id" : {

"class" : "TE"

},

"Totalmarks" : 170

}

],

"ok" : 1

}

> db.student3.aggregate([{$group:{\_id:{class:"$class"},Totalmarks:{$sum:"$marks"},Average:{$avg:"$marks"}}}])

{

"result" : [

{

"\_id" : {

"class" : "BE"

},

"Totalmarks" : 90,

"Average" : 90

},

{

"\_id" : {

"class" : "FE"

},

"Totalmarks" : 60,

"Average" : 60

},

{

"\_id" : {

"class" : "SE"

},

"Totalmarks" : 70,

"Average" : 70

},

{

"\_id" : {

"class" : "TE"

},

"Totalmarks" : 170,

"Average" : 85

}

],

"ok" : 1

}

> db.student3.aggregate([{$match:{class:"TE"}},{$group:{\_id:{class:"$class"},Totalmarks:{$sum:"$marks"}}}])

{

"result" : [

{

"\_id" : {

"class" : "TE"

},

"Totalmarks" : 170

}

],

"ok" : 1

}

> db.student3.aggregate([{$match:{class:"TE"}},{$group:{\_id:{class:"$class"},Minmarks:{$min:"$marks"}}}])

{

"result" : [

{

"\_id" : {

"class" : "TE"

},

"Minmarks" : 80

}

],

"ok" : 1

}

> db.student3.aggregate([{$match:{class:"TE"}},{$group:{\_id:{class:"$class"},Maxmarks:{$max:"$marks"}}}])

{

"result" : [

{

"\_id" : {

"class" : "TE"

},

"Maxmarks" : 90

}

],

"ok" : 1

}

> db.student3.aggregate([{$group:{\_id:{class:"$class"},first:{$first:"$sname"}}}])

{

"result" : [

{

"\_id" : {

"class" : "BE"

},

"first" : "geet"

},

{

"\_id" : {

"class" : "FE"

},

"first" : "raj"

},

{

"\_id" : {

"class" : "SE"

},

"first" : "pooja"

},

{

"\_id" : {

"class" : "TE"

},

"first" : "Kirti"

}

],

"ok" : 1

}

> db.student3.aggregate([{$group:{\_id:{class:"$class"},sname:{$first:"$sname"}}}])

{

"result" : [

{

"\_id" : {

"class" : "BE"

},

"sname" : "geet"

},

{

"\_id" : {

"class" : "FE"

},

"sname" : "raj"

},

{

"\_id" : {

"class" : "SE"

},

"sname" : "pooja"

},

{

"\_id" : {

"class" : "TE"

},

"sname" : "Kirti"

}

],

"ok" : 1

}

> db.student3.aggregate([{$group:{\_id:{class:"$class"},sname:{$last:"$sname"}}}])

{

"result" : [

{

"\_id" : {

"class" : "BE"

},

"sname" : "geet"

},

{

"\_id" : {

"class" : "FE"

},

"sname" : "raj"

},

{

"\_id" : {

"class" : "SE"

},

"sname" : "pooja"

},

{

"\_id" : {

"class" : "TE"

},

"sname" : "prrety"

}

],

"ok" : 1

}