[root@localhost ~]# systemctl start mongod;

[root@localhost ~]# mongo

MongoDB shell version: 2.4.6

connecting to: test

> show dbs;

DB\_2 0.203125GB

library 0.203125GB

local 0.078125GB

svh 0.203125GB

> use shashank;

switched to db shashank

> db.createCollection("employee");

{ "ok" : 1 }

> db.employee.insert({"ename":"Shashank","pname":"DBMS","cost":10000})

> db.employee.insert({"ename":"Prajwal","pname":"DBMS","cost":12000})

> db.employee.insert({"ename":"Ankit","pname":"Network","cost":14000})

> db.employee.insert({"ename":"Vishal","pname":"cloud","cost":14000})

> db.employee.insert({"ename":"Virat","pname":"cloud","cost":20000})

> db.employee.find().pretty();

{

"\_id" : ObjectId("5ba214e249abb2bb01a3ee4a"),

"ename" : "Shashank",

"pname" : "DBMS",

"cost" : 10000

}

{

"\_id" : ObjectId("5ba214fb49abb2bb01a3ee4b"),

"ename" : "Prajwal",

"pname" : "DBMS",

"cost" : 12000

}

{

"\_id" : ObjectId("5ba2151c49abb2bb01a3ee4c"),

"ename" : "Ankit",

"pname" : "Network",

"cost" : 14000

}

{

"\_id" : ObjectId("5ba2154749abb2bb01a3ee4d"),

"ename" : "Vishal",

"pname" : "cloud",

"cost" : 14000

}

{

"\_id" : ObjectId("5ba2155a49abb2bb01a3ee4e"),

"ename" : "Virat",

"pname" : "cloud",

"cost" : 20000

}

> db.employee.aggregate([{$group:{"\_id":"$pname","No of items":{$sum:1}}}])

{

"result" : [

{

"\_id" : "cloud",

"No of items" : 2

},

{

"\_id" : "Network",

"No of items" : 1

},

{

"\_id" : "DBMS",

"No of items" : 2

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","total":{$sum:"$cost"}}}])

{

"result" : [

{

"\_id" : "cloud",

"total" : 34000

},

{

"\_id" : "Network",

"total" : 14000

},

{

"\_id" : "DBMS",

"total" : 22000

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","total":{$min:"$cost"}}}])

{

"result" : [

{

"\_id" : "cloud",

"total" : 14000

},

{

"\_id" : "Network",

"total" : 14000

},

{

"\_id" : "DBMS",

"total" : 10000

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","total":{$max:"$cost"}}}])

{

"result" : [

{

"\_id" : "cloud",

"total" : 20000

},

{

"\_id" : "Network",

"total" : 14000

},

{

"\_id" : "DBMS",

"total" : 12000

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","total":{$avg:"$cost"}}}])

{

"result" : [

{

"\_id" : "cloud",

"total" : 17000

},

{

"\_id" : "Network",

"total" : 14000

},

{

"\_id" : "DBMS",

"total" : 11000

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","First":{$first:"$cost"}}}])

{

"result" : [

{

"\_id" : "cloud",

"First" : 14000

},

{

"\_id" : "Network",

"First" : 14000

},

{

"\_id" : "DBMS",

"First" : 10000

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","First":{$first:"$ename"}}}])

{

"result" : [

{

"\_id" : "cloud",

"First" : "Vishal"

},

{

"\_id" : "Network",

"First" : "Ankit"

},

{

"\_id" : "DBMS",

"First" : "Shashank"

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","Last":{$last:"$ename"}}}])

{

"result" : [

{

"\_id" : "cloud",

"Last" : "Virat"

},

{

"\_id" : "Network",

"Last" : "Ankit"

},

{

"\_id" : "DBMS",

"Last" : "Prajwal"

}

],

"ok" : 1

}

> db.employee.aggregate([{$group:{"\_id":"$pname","Last":{$last:"$cost"}}}])

{

"result" : [

{

"\_id" : "cloud",

"Last" : 20000

},

{

"\_id" : "Network",

"Last" : 14000

},

{

"\_id" : "DBMS",

"Last" : 12000

}

],

"ok" : 1

}

> db.employee.createIndex({"ename":1})

> db.employee.createIndex({"pname":1})

> db.employee.getIndexes();

[

{

"v" : 1,

"key" : {

"\_id" : 1

},

"ns" : "shashank.employee",

"name" : "\_id\_"

},

{

"v" : 1,

"key" : {

"ename" : 1

},

"ns" : "shashank.employee",

"name" : "ename\_1"

},

{

"v" : 1,

"key" : {

"pname" : 1

},

"ns" : "shashank.employee",

"name" : "pname\_1"

}

]

> db.employee.dropIndex("pname\_1");

{ "nIndexesWas" : 3, "ok" : 1 }

> db.employee.getIndexes();

[

{

"v" : 1,

"key" : {

"\_id" : 1

},

"ns" : "shashank.employee",

"name" : "\_id\_"

},

{

"v" : 1,

"key" : {

"ename" : 1

},

"ns" : "shashank.employee",

"name" : "ename\_1"

}

]

>