26.04.2022

**Sonal.M**

 db.department.insertOne({deptno:4,deptname:"ISE",location:"third"})  
{  
"acknowledged" : true,  
"insertedId" : ObjectId("6267690497a4b259f6980c8e")  
}

Text

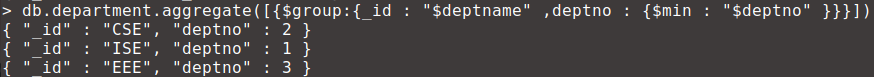
Description automatically generated

> db.department.find().pretty()  
{  
"\_id" : ObjectId("624bbb3036acd308ea6aa0bc"),  
"deptno" : 2,  
"deptname" : "CSE",  
"location" : "first"  
}  
{  
"\_id" : ObjectId("62550703d3c77e70f37398f1"),  
"deptno" : 1,  
"deptname" : "ISE",  
"location" : "second"  
}  
{  
"\_id" : ObjectId("62550703d3c77e70f37398f2"),  
"deptno" : 3,  
"deptname" : "EEE",  
"location" : "third"  
}  
{  
"\_id" : ObjectId("6267690497a4b259f6980c8e"),  
"deptno" : 4,  
"deptname" : "ISE",

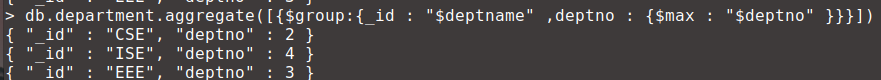
"location" : "third"

***AGGREGATE FUNCTIONS***

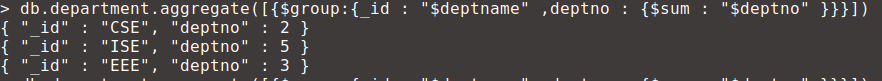
> db.department.aggregate([{$group:{\_id : "$deptname" ,deptno : {$min : "$deptno" }}}])  
{ "\_id" : "CSE", "deptno" : 2 }  
{ "\_id" : "ISE", "deptno" : 1 }  
{ "\_id" : "EEE", "deptno" : 3 }



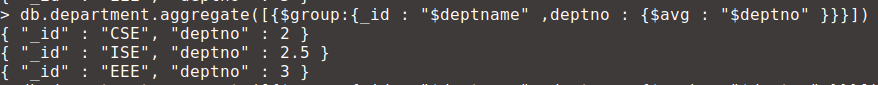
> db.department.aggregate([{$group:{\_id : "$deptname" ,deptno : {$max : "$deptno" }}}])  
{ "\_id" : "CSE", "deptno" : 2 }  
{ "\_id" : "ISE", "deptno" : 4 }  
{ "\_id" : "EEE", "deptno" : 3 }



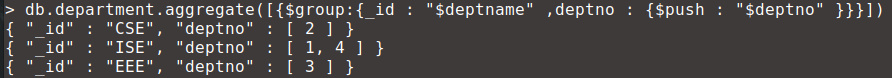
> db.department.aggregate([{$group:{\_id : "$deptname" ,deptno : {$sum : "$deptno" }}}])  
{ "\_id" : "CSE", "deptno" : 2 }  
{ "\_id" : "ISE", "deptno" : 5 }  
{ "\_id" : "EEE", "deptno" : 3 }



> db.department.aggregate([{$group:{\_id : "$deptname" ,deptno : {$avg : "$deptno" }}}])  
{ "\_id" : "CSE", "deptno" : 2 }  
{ "\_id" : "ISE", "deptno" : 2.5 }  
{ "\_id" : "EEE", "deptno" : 3 }



> db.department.aggregate([{$group:{\_id : "$deptname" ,deptno : {$push : "$deptno" }}}])  
{ "\_id" : "CSE", "deptno" : [ 2 ] }  
{ "\_id" : "ISE", "deptno" : [ 1, 4 ] }  
{ "\_id" : "EEE", "deptno" : [ 3 ] }



> db.department.aggregate([{$group:{\_id : "$deptname" ,deptno : {$addToSet : "$deptno" }}}])  
{ "\_id" : "CSE", "deptno" : [ 2 ] }  
{ "\_id" : "ISE", "deptno" : [ 1, 4 ] }  
{ "\_id" : "EEE", "deptno" : [ 3 ] }

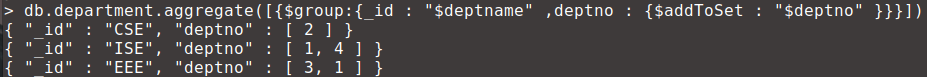
> db.department.insertOne({deptno: 2,deptname:"CSE",location:"first"})  
{  
"acknowledged" : true,  
"insertedId" : ObjectId("6267715697a4b259f6980c90")  
}

Text

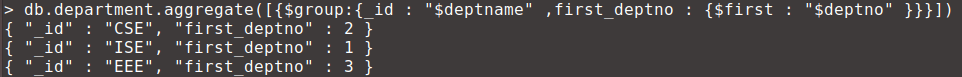
Description automatically generated

 db.department.find().pretty()  
{  
"\_id" : ObjectId("624bbb3036acd308ea6aa0bc"),  
"deptno" : 2,  
"deptname" : "CSE",  
"location" : "first"  
}  
{  
"\_id" : ObjectId("62550703d3c77e70f37398f1"),  
"deptno" : 1,  
"deptname" : "ISE",  
"location" : "second"  
}  
{  
"\_id" : ObjectId("62550703d3c77e70f37398f2"),  
"deptno" : 3,  
"deptname" : "EEE",  
"location" : "third"  
}  
{  
"\_id" : ObjectId("6267690497a4b259f6980c8e"),  
"deptno" : 4,  
"deptname" : "ISE",  
"location" : "third"  
}  
{  
"\_id" : ObjectId("6267710897a4b259f6980c8f"),  
"deptno" : 1,  
"deptname" : "EEE",  
"location" : "fourth"  
}  
{  
"\_id" : ObjectId("6267715697a4b259f6980c90"),  
"deptno" : 2,  
"deptname" : "CSE",  
"location" : "first"  
}

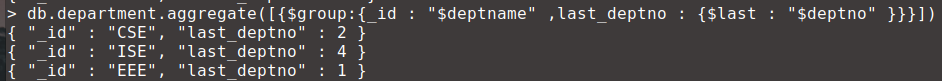
> db.department.aggregate([{$group:{\_id : "$deptname" ,deptno : {$addToSet : "$deptno" }}}])  
{ "\_id" : "CSE", "deptno" : [ 2 ] }  
{ "\_id" : "ISE", "deptno" : [ 1, 4 ] }  
{ "\_id" : "EEE", "deptno" : [ 3, 1 ] }



> db.department.aggregate([{$group:{\_id : "$deptname" ,first\_deptno : {$first : "$deptno" }}}])  
{ "\_id" : "CSE", "first\_deptno" : 2 }  
{ "\_id" : "ISE", "first\_deptno" : 1 }  
{ "\_id" : "EEE", "first\_deptno" : 3 }



> db.department.aggregate([{$group:{\_id : "$deptname" ,last\_deptno : {$last : "$deptno" }}}])  
{ "\_id" : "CSE", "last\_deptno" : 2 }  
{ "\_id" : "ISE", "last\_deptno" : 4 }  
{ "\_id" : "EEE", "last\_deptno" : 1 }



 db.department.aggregate([{$project:{deptname:1}}])  
{ "\_id" : ObjectId("624bbb3036acd308ea6aa0bc"), "deptname" : "CSE" }  
{ "\_id" : ObjectId("62550703d3c77e70f37398f1"), "deptname" : "ISE" }  
{ "\_id" : ObjectId("62550703d3c77e70f37398f2"), "deptname" : "EEE" }  
{ "\_id" : ObjectId("6267690497a4b259f6980c8e"), "deptname" : "ISE" }  
{ "\_id" : ObjectId("6267710897a4b259f6980c8f"), "deptname" : "EEE" }  
{ "\_id" : ObjectId("6267715697a4b259f6980c90"), "deptname" : "CSE" }

Text

Description automatically generated

> db.department.aggregate([{$project:{deptname:1,location:1}}])  
{ "\_id" : ObjectId("624bbb3036acd308ea6aa0bc"), "deptname" : "CSE", "location" : "first" }  
{ "\_id" : ObjectId("62550703d3c77e70f37398f1"), "deptname" : "ISE", "location" : "second" }  
{ "\_id" : ObjectId("62550703d3c77e70f37398f2"), "deptname" : "EEE", "location" : "third" }  
{ "\_id" : ObjectId("6267690497a4b259f6980c8e"), "deptname" : "ISE", "location" : "third" }  
{ "\_id" : ObjectId("6267710897a4b259f6980c8f"), "deptname" : "EEE", "location" : "fourth" }  
{ "\_id" : ObjectId("6267715697a4b259f6980c90"), "deptname" : "CSE", "location" : "first" }

A screenshot of a computer

Description automatically generated with medium confidence

> db.department.aggregate([{$project:{\_id:0,deptname:1,location:1}}])  
{ "deptname" : "CSE", "location" : "first" }  
{ "deptname" : "ISE", "location" : "second" }  
{ "deptname" : "EEE", "location" : "third" }  
{ "deptname" : "ISE", "location" : "third" }  
{ "deptname" : "EEE", "location" : "fourth" }  
{ "deptname" : "CSE", "location" : "first" }

Text

Description automatically generated with medium confidence