**Assignment7**

> db.stud.createIndex({"roll" :1})

{

"createdCollectionAutomatically" : false,

"numIndexesBefore" : 1,

"numIndexesAfter" : 2,

"ok" : 1

}

> db.stud.getIndexes()

[

{

"v" : 2,

"key" : {

"\_id" : 1

},

"name" : "\_id\_",

"ns" : "student.stud"

},

{

"v" : 2,

"key" : {

"roll" : 1

},

"name" : "roll\_1",

"ns" : "student.stud"

}

]

> db.stud.aggregate([{$group : {\_id:"$type", roll: {$sum : 1}}}])

{ "\_id" : null, "roll" : 3 }

> db.stud.aggregate([{$group : {\_id:"$type", roll: {$min : "$roll"}}}])

{ "\_id" : null, "roll" : 23119 }

> db.stud.aggregate([{$group : {\_id:"$type", roll: {$max : "$roll"}}}])

{ "\_id" : null, "roll" : 23139 }

> db.stud.aggregate([{$group : {\_id:"$type", roll: {$avg : "$roll"}}}])

{ "\_id" : null, "roll" : 23127.666666666668 }

> db.stud.aggregate([{$group : {\_id:"$type", name: {$first : "$name"}}}])

{ "\_id" : null, "name" : "tarun" }

db.stud.aggregate([{$group : {\_id:"$type", name: {$last : "$name"}}}])

{ "\_id" : null, "name" : "arjun" }