

```
db.mycollection.insertMany([{"name":"ron",dob:"12-03-2002",phone:"9876545671",mail_id:"sdfff@gmail.com",place:"bangalore"},{"name":"harry",dob:"13-04-2000",phone:"8765437891",mail_id:"fghutrr@gmail.com",place:"bangalore"},{"name":"draco",dob:"13-04-2000",phone:"8881232477",mail_id:"oiuytr@gmail.com",place:"delhi"}])
```

```
> db.mycollection.find().pretty()
{
  "_id" : ObjectId("6267c7eece9bf3891fb7a74"),
  "name" : "ron",
  "dob" : "12-03-2002",
  "phone" : "9876545671",
  "mail_id" : "sdfff@gmail.com",
  "place" : "banglore"
}
{
  "_id" : ObjectId("6267c7eece9bf3891fb7a75"),
  "name" : "harry",
  "dob" : "13-04-2000",
  "phone" : "8765437891",
  "mail_id" : "fghutrr@gmail.com",
  "place" : "banglore"
}
{
  "_id" : ObjectId("6267c7eece9bf3891fb7a76"),
  "name" : "draco",
  "dob" : "13-04-2000",
  "phone" : "8881232477",
  "mail_id" : "oiuytr@gmail.com",
  "place" : "delhi"
}
```

Aggregate functions

1.count:

```
db.mycollection.aggregate([{$match:{place:"banglore"}},{$count:" members staying in banglore"}])
```

```
@shel1/1.1.1
> db.mycollection.aggregate([{$match:{place:"banglore"}},{$count:" members staying in banglore"}])
{ " members staying in banglore" : 2 }
```

```
db.mycollection.updateOne({name:"harry"},{$set:{age:"19"}})
db.mycollection.updateOne({name:"draco"},{$set:{age:"21"}})
db.mycollection.updateOne({name:"ron"},{$set:{age:"20"}})
```

db.mycollection.find().pretty()

```
> db.mycollection.find().pretty()
{
  "_id" : ObjectId("6267c7eece9bf3891fb7a74"),
  "name" : "ron",
  "dob" : "12-03-2002",
  "phone" : "9876545671",
  "mail_id" : "sdfff@gmail.com",
  "place" : "banglore",
  "age" : "20"
}
{
  "_id" : ObjectId("6267c7eece9bf3891fb7a75"),
  "name" : "harry",
  "dob" : "13-04-2000",
  "phone" : "8765437891",
  "mail_id" : "fghutrr@gmail.com",
  "place" : "banglore",
  "age" : "19"
}
{
  "_id" : ObjectId("6267c7eece9bf3891fb7a76"),
  "name" : "draco",
  "dob" : "13-04-2000",
  "phone" : "8881232477",
  "mail_id" : "oiuytr@gmail.com",
  "place" : "delhi",
  "age" : "21"
}
```

Row wise minimum:

db.mycollection.aggregate([{\$group:{_id:"\$name",minimumage:{\$min:"\$age"}}}])

```
> db.mycollection.aggregate([{$group:{_id:"$name",minimumage:{$min:"$age"}}}])
{ "_id" : "draco", "minimumage" : "21" }
{ "_id" : "ron", "minimumage" : "20" }
{ "_id" : "harry", "minimumage" : "19" }
```

Row wise maximum:

db.mycollection.aggregate([{\$group:{_id:"\$name",maximumage:{\$max:"\$age"}}}])

```
> db.mycollection.aggregate([{$group:{_id:"$name",maximumage:{$max:"$age"}}}])
{ "_id" : "ron", "maximumage" : "20" }
{ "_id" : "harry", "maximumage" : "19" }
{ "_id" : "draco", "maximumage" : "21" }
```

Column wise minimum:

db.mycollection.aggregate([{\$match:{}},{ \$group:{_id:"age",min_age_of_all:{\$min:"\$age"}}}])

```
> db.mycollection.aggregate([{$match:{}},{ $group:{_id:"age",min_age_of_all:{$min:"$age"}}}])
{ "_id" : "age", "min_age_of_all" : "19" }
```

Column wise maximum:

db.mycollection.aggregate([{\$match:{}},{ \$group:{_id:"age",max_age_of_all:{\$max:"\$age"}}}])

```
> db.mycollection.aggregate([{$match:{}},{ $group:{_id:"age",max_age_of_all:{$max:"$age"}}}])
{ "_id" : "age", "max_age_of_all" : "21" }
```

First value:

db.mycollection.aggregate([{\$match:{}},{ \$group:{_id:"age",first_age:{\$first:"\$age"}}}])

```
> db.mycollection.aggregate([{$match:{}},{$group:{_id:"age",first_age:{$first:"$age"}}}])
{ "_id" : "age", "first_age" : "20" }
```

Last value:

```
db.mycollection.aggregate([{$match:{}},{$group:{_id:"age",last_age:{$last:"$age"}}}])
```

```
{ "_id" : "age", "last_age" : "21" }
```

```
db.mycollection.updateOne({name:"harry"},{$set:{age:19}})
```

```
db.mycollection.updateOne({name:"draco"},{$set:{age:21}})
```

```
db.mycollection.updateOne({name:"ron"},{$set:{age:20}})
```

Average :

```
db.mycollection.aggregate([{$match:{}},{$group:{_id:"age",avg:{$avg:"$age"}}}])
```

```
> db.mycollection.aggregate([{$match:{}},{$group:{_id:null,avg:{$avg:"$age"}}}])
{ "_id" : null, "avg" : 20 }
```

Sum:

```
db.mycollection.aggregate([{$match:{}},{$group:{_id:"age",sum:{$sum:"$age"}}}])
```

```
> db.mycollection.aggregate([{$match:{}},{$group:{_id:"age",sum:{$sum:"$age"}}}])
{ "_id" : "age", "sum" : 60 }
```