

Aggregate functions

1 . Count

```
> db.Details.aggregate([{$match: {gender:"M"}},{ $count: "Number_of_males"} ] )
```

```
{ "Number_of_males" : 2 }
```

2. Min

```
> db.Details.aggregate([{$group:{_id:"$name",minimumage:{$min:"$age"}}}])
```

```
> db.Details.aggregate([{$group:{_id:"$name",minimumage:{$min:"$age"}}}])
{ "_id" : "Anjali", "minimumage" : 23 }
{ "_id" : "Pragati", "minimumage" : 23 }
{ "_id" : "Indiana", "minimumage" : null }
{ "_id" : "Sarathak", "minimumage" : 21 }
{ "_id" : "John", "minimumage" : 63 }
```

3. Max

```
> db.Details.aggregate([{$group:{_id:"$name",maximumage:{$max:"$age"}}}])
```

```
> db.Details.aggregate([{$group:{_id:"$name",maximumage:{$max:"$age"}}}])
{ "_id" : "Anjali", "maximumage" : 23 }
{ "_id" : "Pragati", "maximumage" : 23 }
{ "_id" : "Indiana", "maximumage" : null }
{ "_id" : "Sarathak", "maximumage" : 21 }
{ "_id" : "John", "maximumage" : 63 }
```

4. Min All

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

```
> db.Details.aggregate([{$match:{}},{ $group:{_id:"age",min_age_of_all:{$min:"$age"}}}])
{ "_id" : "age", "min_age_of_all" : 21 }
```

5. First

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

```
> db.Details.aggregate([{$match:{}},{ $group:{_id:"age",first_age:{$first:"$age"}}}])
{ "_id" : "age", "first_age" : 21 }
```

6. Last

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

```
> db.Details.aggregate([{$match:{}},{$group:{_id:"age",last_age:{$last:"$age"}}}])
{ "_id" : "age", "last_age" : 23 }
```

7. Average

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

```
> db.Details.aggregate([{$match:{}},{$group:{_id:"age",avg:{$avg:"$age"}}}])
{ "_id" : "age", "avg" : 32.5 }
```

8. Sum

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

```
> db.Details.aggregate([{$match:{}},{$group:{_id:"age",sum:{$sum:"$age"}}}])
{ "_id" : "age", "sum" : 130 }
```