

Counting Number of Row

```
db.employees.aggregate([  
    {$count: 'toatal'}  
])
```

Sorting, Skipping & Selecting

```
db.employees.aggregate([  
    {$sort:{salary:-1}}  
])
```

```
db.employees.aggregate([  
    {$sort: {_id:-1}},  
    {$limit:2}  
])
```

```
db.employees.aggregate([  
    {$sort:{_id:-1}},  
    {$skip:2},  
    {$limit:2}  
])  
  
//Same code  
db.employees.find({}).sort({"_id":-1}).skip(2).limit(2)
```

Find data using \$match condition

```
db.employees.aggregate([  
    {$match: {salary:{$lt:90000}}}  
])
```

Using \$match with multiple condition

```
db.employees.aggregate([
  {$match:{salary:{$lt:100000}}},
  {$match:{city:{$nin:["Dhaka"]}}}
])
```

```
db.employees.aggregate([
  {$match:{salary:{$lte:100000}}},
  {$match:{city:"Dhaka"}}
])

//Same Code
db.employees.aggregate([
  {$match:{$and:[
    {salary:{$lte:100000}},
    {city:"Dhaka"}
  ]}}
])
```

Select alike data

```
db.employees.aggregate([
  {$match:{designation:/Scientist/}}
])

//Same code
db.employees.find({designation:/Eng/})
```

Projection the data by Column

```
db.employees.aggregate([
  {$project:{_id:0, name:1}}
])
```

Show data by Group

Show only unique data

```
db.employees.aggregate([

    {$group: {_id: "$designation"}}

])

//Same code
db.employees.distinct('city')
```

show sum by grouping

```
db.employees.aggregate([

    {$group: {_id: "$designation", total: {$sum: "$salary"}}}

])
```

show average by grouping

```
db.employees.aggregate([

    {$group: {_id: "$designation", avg: {$avg: "$salary"}}}

])
```

show max value by grouping

```
db.employees.aggregate([

    {$group: {_id: "$designation", max: {$max: "$salary"}}}

])
```

show min value by grouping

```
db.employees.aggregate([

    {$group: {_id: "$designation", min: {$min: "$salary"}}}

])
```

combine group

```

db.employees.aggregate([
  {$group:
    {
      _id:{city: "$city"},
      avg:{$avg:"$salary"},
      sum:{$sum:"$salary"},
      max:{$max:"$salary"},
      min:{$min:"$salary"}
    }
  }
])

```

```

db.employees.aggregate([
  {$group:
    {
      _id:{designation: "$designation", city: "$city"},
      avg:{$avg:"$salary"},
      sum:{$sum:"$salary"},
      max:{$max:"$salary"},
      min:{$min:"$salary"}
    }
  }
])

```

Show Max, Min & Avg value of a column

- Max value

```

db.employees.aggregate([
  {$group:{_id:0, max:{$max:"$salary"}}},
])

```

- Max value

```

db.employees.aggregate([
  {$group:{_id:0, min:{$min:"$salary"}}},
])

```

- Avg value

```

db.employees.aggregate([
  {$group:{_id:0, avg:{$avg:"$salary"}}},
])

```

