


DBMS DA3

Name: Sandip Datta

Regno:21BCE1163

Creating employee_21bce1163 collection:

script.js

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```
1
2 db.createCollection("employees_21bce1163")
3
4
```

Output:

```
{ "ok" : 1 }
```

Insert into the collection:

script.js

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```
1
2 db.createCollection("employees_21bce1163")
3 db.employees_21bce1163.insertMany([
4   { name: 'sandip datta', age: 30, department: 'Marketing', salary: 78000 },
5   { name: 'rohan mathur', age: 88, department: 'Sales', salary: 90000 },
6   { name: 'nidhish bhellam', age: 40, department: 'Database', salary: 80000 },
7   { name: 'rohit kumar', age: 45, department: 'HR', salary: 55000 },
8   { name: 'shneur jhirad', age: 28, department: 'Marketing', salary: 90000 },
9   { name: 'hansh jackson', age: 67, department: 'Sales', salary: 65000 },
10  { name: 'david pit', age: 50, department: 'Database', salary: 90000 },
11  { name: 'linda red', age: 38, department: 'HR', salary: 60000 }
12 ])
```

Output:

```
{ "ok" : 1 }
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("643035fbee32d6327cec8c0e"),
    ObjectId("643035fbee32d6327cec8c0f"),
    ObjectId("643035fbee32d6327cec8c10"),
    ObjectId("643035fbee32d6327cec8c11"),
    ObjectId("643035fbee32d6327cec8c12"),
    ObjectId("643035fbee32d6327cec8c13"),
    ObjectId("643035fbee32d6327cec8c14"),
    ObjectId("643035fbee32d6327cec8c15")
  ]
}
```

Deleting values:

script.js

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```
1
2 db.createCollection("employees_21bce1163")
3 db.employees_21bce1163.insertMany([
4   { name: 'sandip datta', age: 30, department: 'Marketing', salary: 78000 },
5   { name: 'rohan mathur', age: 88, department: 'Sales', salary: 90000 },
6   { name: 'nidhish bhellam', age: 40, department: 'Database', salary: 80000 },
7   { name: 'rohit kumar', age: 45, department: 'HR', salary: 55000 },
8   { name: 'shneur jhirad', age: 28, department: 'Marketing', salary: 90000 },
9   { name: 'hansh jackson', age: 67, department: 'Sales', salary: 65000 },
10  { name: 'david pit', age: 50, department: 'Database', salary: 90000 },
11  { name: 'linda red', age: 38, department: 'HR', salary: 60000 }
12 ])
13
14 db.employees_21bce1163.deleteMany({ name: { $in: [ "david pit", "linda red" ] } })
15
```

Output:

```
{ "ok" : 1 }
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("643039ea03097552dc6e7c22"),
    ObjectId("643039ea03097552dc6e7c23"),
    ObjectId("643039ea03097552dc6e7c24"),
    ObjectId("643039ea03097552dc6e7c25"),
    ObjectId("643039ea03097552dc6e7c26"),
    ObjectId("643039ea03097552dc6e7c27"),
    ObjectId("643039ea03097552dc6e7c28"),
    ObjectId("643039ea03097552dc6e7c29")
  ]
}
{ "acknowledged" : true, "deletedCount" : 2 }
```

Updating values:

script.js

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```
1
2 db.createCollection("employees_21bce1163")
3 db.employees_21bce1163.insertMany([
4   { name: 'sandip datta', age: 30, department: 'Marketing', salary: 78000 },
5   { name: 'rohan mathur', age: 88, department: 'Sales', salary: 90000 },
6   { name: 'nidhish bhellam', age: 40, department: 'Database', salary: 80000 },
7   { name: 'rohit kumar', age: 45, department: 'HR', salary: 55000 },
8   { name: 'shneur jhirad', age: 28, department: 'Marketing', salary: 90000 },
9   { name: 'hansh jackson', age: 67, department: 'Sales', salary: 65000 },
10  { name: 'david pit', age: 50, department: 'Database', salary: 90000 },
11  { name: 'linda red', age: 38, department: 'HR', salary: 60000 }
12 ])
13
14 db.employees_21bce1163.deleteMany({ name: { $in: [ "david pit", "linda red" ] } })
15
16 db.employees_21bce1163.updateMany(
17   { name: { $in: ["nidhish bhellam", "rohit kumar"] } },
18   { $set: { salary: { $cond: [ { $eq: [ "$name", "nidhish bhellam" ] }, 100000, 78000 ] } } }
19 )
20
```

Finding details:

```
1 db.createCollection("employees_21bce1163")
2
3 db.employees_21bce1163.insertMany([
4   { name: 'sandip datta', age: 30, department: 'Marketing', salary: 78000 },
5   { name: 'rohan mathur', age: 88, department: 'Sales', salary: 90000 },
6   { name: 'nidhish bhellam', age: 40, department: 'Database', salary: 80000 },
7   { name: 'rohit kumar', age: 45, department: 'HR', salary: 55000 },
8   { name: 'shneur jhirad', age: 28, department: 'Marketing', salary: 90000 },
9   { name: 'hansh jackson', age: 67, department: 'Sales', salary: 65000 },
10  { name: 'david pit', age: 50, department: 'Database', salary: 90000 },
11  { name: 'linda red', age: 38, department: 'HR', salary: 60000 }
12 ])
13
14 db.employees_21bce1163.deleteMany({ name: { $in: [ "david pit", "linda red" ] } })
15
16 db.employees_21bce1163.updateMany(
17   { name: { $in: [ "nidhish bhellam", "rohit kumar" ] } },
18   { $set: { salary: { $cond: [ { $eq: [ "$name", "nidhish bhellam" ] }, 100000, 78000 ] } } }
19 )
20
21
22 db.employees_21bce1163.find({ name: { $in: [ "sandip datta", "rohan mathur" ] } })
```

Output:

```
{ "ok" : 1 }
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("643039ea03097552dc6e7c22"),
    ObjectId("643039ea03097552dc6e7c23"),
    ObjectId("643039ea03097552dc6e7c24"),
    ObjectId("643039ea03097552dc6e7c25"),
    ObjectId("643039ea03097552dc6e7c26"),
    ObjectId("643039ea03097552dc6e7c27"),
    ObjectId("643039ea03097552dc6e7c28"),
    ObjectId("643039ea03097552dc6e7c29")
  ]
}
{ "acknowledged" : true, "deletedCount" : 2 }
{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
{ "_id" : ObjectId("643039ea03097552dc6e7c22"), "name" : "sandip datta", "age" :
{ "_id" : ObjectId("643039ea03097552dc6e7c23"), "name" : "rohan mathur", "age" :
```

```


dc6e7c22"),
dc6e7c23"),
dc6e7c24"),
dc6e7c25"),
dc6e7c26"),
dc6e7c27"),
dc6e7c28"),
dc6e7c29")

2 }
2, "modifiedCount" : 2 }
22"), "name" : "sandip datta", "age" : 30, "department" : "Marketing", "salary" :
23"), "name" : "rohan mathur", "age" : 88, "department" : "Sales", "salary" : 90000

```

Distinct the values:

script.js

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```

1
2 db.createCollection("employees_21bce1163")
3 db.employees_21bce1163.insertMany([
4   { name: 'sandip datta', age: 30, department: 'Marketing', salary: 78000 },
5   { name: 'rohan mathur', age: 88, department: 'Sales', salary: 90000 },
6   { name: 'nidhish bhellam', age: 40, department: 'Database', salary: 80000 },
7   { name: 'rohit kumar', age: 45, department: 'HR', salary: 55000 },
8   { name: 'shneur jhirad', age: 28, department: 'Marketing', salary: 90000 },
9   { name: 'hansh jackson', age: 67, department: 'Sales', salary: 65000 },
10  { name: 'david pit', age: 50, department: 'Database', salary: 90000 },
11  { name: 'linda red', age: 38, department: 'HR', salary: 60000 }
12 ])
13
14 db.employees_21bce1163.deleteMany({ name: { $in: [ "david pit", "linda red" ] } })
15
16 db.employees_21bce1163.updateMany(
17   { name: { $in: ["nidhish bhellam", "rohit kumar"] } },
18   { $set: { salary: { $cond: [ { $eq: [ "$name", "nidhish bhellam" ] }, 100000, 78000 ] } } }
19 )
20
21 db.employees_21bce1163.find({ name: { $in: ["sandip datta", "rohan mathur"] } })
22
23
24 db.employees_21bce1163.distinct("department", { salary: { $gte: 60000 } })

```

Output:

```
{ "ok" : 1 }
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("64303b426e962acf43923a75"),
    ObjectId("64303b426e962acf43923a76"),
    ObjectId("64303b426e962acf43923a77"),
    ObjectId("64303b426e962acf43923a78"),
    ObjectId("64303b426e962acf43923a79"),
    ObjectId("64303b426e962acf43923a7a"),
    ObjectId("64303b426e962acf43923a7b"),
    ObjectId("64303b426e962acf43923a7c")
  ]
}
{ "acknowledged" : true, "deletedCount" : 2 }
{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
{ "_id" : ObjectId("64303b426e962acf43923a75"), "name" : "sandip datta", "age" :
{ "_id" : ObjectId("64303b426e962acf43923a76"), "name" : "rohan mathur", "age" :
[ "Marketing", "Sales" ]
```

Sorting:

script.js

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```
1 db.createCollection("employees_21bce1163")
2
3 db.employees_21bce1163.insertMany([
4   { name: 'sandip datta', age: 30, department: 'Marketing', salary: 78000 },
5   { name: 'rohan mathur', age: 88, department: 'Sales', salary: 90000 },
6   { name: 'nidhish bhellam', age: 40, department: 'Database', salary: 80000 },
7   { name: 'rohit kumar', age: 45, department: 'HR', salary: 55000 },
8   { name: 'shneur jhirad', age: 28, department: 'Marketing', salary: 90000 },
9   { name: 'hansh jackson', age: 67, department: 'Sales', salary: 65000 },
10  { name: 'david pit', age: 50, department: 'Database', salary: 90000 },
11  { name: 'linda red', age: 38, department: 'HR', salary: 60000 }
12 ])
13
14 db.employees_21bce1163.deleteMany({ name: { $in: [ "david pit", "linda red" ] } })
15
16 db.employees_21bce1163.updateMany(
17   { name: { $in: ["nidhish bhellam", "rohit kumar"] } },
18   { $set: { salary: { $cond: [ { $eq: [ "$name", "nidhish bhellam" ] }, 100000, 78000 ] } } }
19 )
20
21
22 db.employees_21bce1163.find({ name: { $in: ["sandip datta", "rohan mathur"] } })
23
24 db.employees_21bce1163.distinct("department", { salary: { $gte: 60000 } })
25
26 db.employees_21bce1163.find().sort({ salary: 1 })
```

Output:

```
{ "ok" : 1 }
{
  "acknowledged" : true,
  "insertedIds" : [
    ObjectId("64303b9b1ba5e75f3754a297"),
    ObjectId("64303b9b1ba5e75f3754a298"),
    ObjectId("64303b9b1ba5e75f3754a299"),
    ObjectId("64303b9b1ba5e75f3754a29a"),
    ObjectId("64303b9b1ba5e75f3754a29b"),
    ObjectId("64303b9b1ba5e75f3754a29c"),
    ObjectId("64303b9b1ba5e75f3754a29d"),
    ObjectId("64303b9b1ba5e75f3754a29e")
  ]
}
{ "acknowledged" : true, "deletedCount" : 2 }
{ "acknowledged" : true, "matchedCount" : 2, "modifiedCount" : 2 }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a297"), "name" : "sandip datta", "age" : 30, "department" : "Marketing", "salary" : 78000 }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a298"), "name" : "rohan mathur", "age" : 88, "department" : "Sales", "salary" : 90000 }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a29c"), "name" : "hansh jackson", "age" : 67, "department" : "Sales", "salary" : 65000 }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a297"), "name" : "sandip datta", "age" : 30, "department" : "Marketing", "salary" : 78000 }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a298"), "name" : "rohan mathur", "age" : 88, "department" : "Sales", "salary" : 90000 }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a29b"), "name" : "shneur jhirad", "age" : 28, "department" : "Marketing", "salary" : 90000 }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a299"), "name" : "nidhish bhellam", "age" : 40, "department" : "Database", "salary" : { "$cond" : [ { "$eq" : [ "$age", 40 ] }, 78000, 90000 ] } }
{ "_id" : ObjectId("64303b9b1ba5e75f3754a29a"), "name" : "rohit kumar", "age" : 45, "department" : "HR", "salary" : { "$cond" : [ { "$eq" : [ "$age", 45 ] }, 90000, 78000 ] } }
```

```
dCount" : 2 }
" : "sandip datta", "age" : 30, "department" : "Marketing", "salary" : 78000 }
" : "rohan mathur", "age" : 88, "department" : "Sales", "salary" : 90000 }

" : "hansh jackson", "age" : 67, "department" : "Sales", "salary" : 65000 }
" : "sandip datta", "age" : 30, "department" : "Marketing", "salary" : 78000 }
" : "rohan mathur", "age" : 88, "department" : "Sales", "salary" : 90000 }
" : "shneur jhirad", "age" : 28, "department" : "Marketing", "salary" : 90000 }
" : "nidhish bhellam", "age" : 40, "department" : "Database", "salary" : { "$cond" : [ { "$eq" : [ "$age", 40 ] }, 78000, 90000 ] } }
" : "rohit kumar", "age" : 45, "department" : "HR", "salary" : { "$cond" : [ { "$eq" : [ "$age", 45 ] }, 90000, 78000 ] } }
```

```
      : 78000 }  
    3000 }  
  
    55000 }  
      : 78000 }  
    3000 }  
    ' : 90000 }  
  /" : { "$cond" : [ { "$eq" : [ "$name", "nidhish bhellam" ] }, 100000, 78000 ] } }  
  cond" : [ { "$eq" : [ "$name", "nidhish bhellam" ] }, 100000, 78000 ] } }
```