

BIG DATA LAB

Name:S.L.A.Laisha

USN:1NT19IS147

SEC:C1

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To create collection:

```
>db.createCollection("Details")
```

Update one (\$unset)

```
>db.Details.updateOne({Name:"Rani"},{$unset{"gender":""}})
```

```
> show collections
Details
> db.Details.find()
{ "_id" : ObjectId("624bbc4699ca2d0fb8ca99f7"), "Name" : "Laisha" }
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4209"), "Name" : "Mohith", "age" : 22, "gender" : "M" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
```

```
> db.Details.updateOne({Name:"Rani"},{$unset{"gender":""}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.Details.find()
{ "_id" : ObjectId("624bbc4699ca2d0fb8ca99f7"), "Name" : "Laisha" }
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4209"), "Name" : "Mohith", "age" : 22, "gender" : "M" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
```

Update many (\$unset)

```
>db.Details.updateOne({Name:Mohith"},{$unset{"Name"." ","age"." ","gender".""}})
```

```
> db.Details.find()
{ "_id" : ObjectId("624bbc4699ca2d0fb8ca99f7"), "Name" : "Laisha" }
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4209"), "Name" : "Mohith", "age" : 22, "gender" : "M" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
> db.Details.update({Name:"Mohith"},{$unset{"Name"." ","age"." ","gender".""}})
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
> db.Details.find()
{ "_id" : ObjectId("624bbc4699ca2d0fb8ca99f7"), "Name" : "Laisha" }
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4209") }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
```

Delete one

>db.Details.deleteOne({Name:"Laisha"})

```
> db.Details.find()
{ "_id" : ObjectId("624bbc4699ca2d0fb8ca99f7"), "Name" : "Laisha" }
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4209") }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
> db.Details.deleteOne({Name:"Laisha"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.Details.find()
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4209") }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
```

Deleting id when all values are deleted

>db.Details.remove({"_id" : ObjectId("624bc119d463bbbd0d2e4209")});

```
> db.Details.find()
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4209") }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
> db.Details.remove({"_id" : ObjectId("624bc119d463bbbd0d2e4209")});
WriteResult({ "nRemoved" : 1 })
> db.Details.find()
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
```

Replace the values (replace one)

>db.Details.replaceOne({Name:"Sita"},{Name:"Snehitha"})

```
> db.Details.find()
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
> db.Details.replaceOne({Name:"Sita"},{Name:"Snehitha"})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.Details.find()
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Snehitha" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
```

Using AND operator to display details of people with age greater 22 than and gender :Female

```
>db.Details.find({$and:[{age:{$gte:22}},{gender:"F"}]}).pretty();
```

```
> db.Details.find()
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
> db.Details.find({$and:[{age:{$gte:22}},{gender:"F"}]}).pretty();
{
  "_id" : ObjectId("624bc119d463bbbd0d2e420a"),
  "Name" : "Sita",
  "age" : 23,
  "gender" : "F"
}
{
  "_id" : ObjectId("6254fb2d851acd0422ca231c"),
  "Name" : "Vani",
  "age" : 25,
  "gender" : "F"
}
>
```

Using OR operator to display details of people with age greater 22 than and gender :Female

```
>db.Details.find({$or:[{age:{$gte:22}},{gender:"F"}]}).pretty();
```

```
> db.Details.find()
{ "_id" : ObjectId("624bc02dd463bbbd0d2e4207"), "Name" : "laisha", "age" : 20, "gender" : "F" }
{ "_id" : ObjectId("624bc119d463bbbd0d2e4208"), "Name" : "Rani", "age" : 22 }
{ "_id" : ObjectId("624bc119d463bbbd0d2e420a"), "Name" : "Sita", "age" : 23, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231c"), "Name" : "Vani", "age" : 25, "gender" : "F" }
{ "_id" : ObjectId("6254fb2d851acd0422ca231d"), "Name" : "John", "age" : 28, "gender" : "M" }
> db.Details.find({$or:[{age:{$gte:22}},{gender:"F"}]}).pretty();
{
  "_id" : ObjectId("624bc02dd463bbbd0d2e4207"),
  "Name" : "laisha",
  "age" : 20,
  "gender" : "F"
}
{
  "_id" : ObjectId("624bc119d463bbbd0d2e4208"),
  "Name" : "Rani",
  "age" : 22
}
{
  "_id" : ObjectId("624bc119d463bbbd0d2e420a"),
  "Name" : "Sita",
  "age" : 23,
  "gender" : "F"
}
{
  "_id" : ObjectId("6254fb2d851acd0422ca231c"),
  "Name" : "Vani",
  "age" : 25,
  "gender" : "F"
}
{
  "_id" : ObjectId("6254fb2d851acd0422ca231d"),
  "Name" : "John",
  "age" : 28,
  "gender" : "M"
}
>
```