# **BIG DATA LAB**

#### **BASIC CRUD OPERATIONS:-**

>mongo command is used to check whether mongoDB is present.

>Show dbs is used to see the databases consist in particular mongo

>database will be created by the command

```
> use soni
switched to db soni
```

>command to check the current database.

```
> db
soni
```

```
> use soni
switched to db soni
> db
soni
```

# **Insert Command**

#### >Command for inserting one value.

```
>db.employee.insertOne({Id:101,Name:"soni.a",Age:28,sex:"F",PhoneNo:9837791737,
Place:"Bangalore"})
{
   "acknowledged" : true,
   "insertedId" : ObjectId("624bbc3ca0d049924c5006c9")
}
> db.employee.insertOne({Id:101,Name:"soni.a",Age:28,sex:"F",PhoneNo:9837791737,Place:"Bangalore"})
{
        "acknowledged" : true,
        "insertedId" : ObjectId("624bbc3ca0d049924c5006c9")
}
```

# >Command for inserting many values.

### >Command used to show values in table.

```
> db.employee.find().pretty()
"_id": ObjectId("624bb9eaefbd491e01b44290"),
"ld": 101,
"Name" : "Soni",
"Place": "Bangalore",
"Age": 21,
"Sex": "F",
"Branch": "ISE"
"_id": ObjectId("624bbc3ca0d049924c5006c9"),
"ld": 101,
"Name": "soni.a",
"Age": 28,
"sex": "F",
"PhoneNo": 9837791737,
"Place" : "Bangalore"
"_id": ObjectId("624bbe0ba0d049924c5006ca"),
"ld": 101,
"Name": "Sonal.M",
"Age": 27,
"sex": "F",
"PhoneNo": 7637791737,
"Place": "Kolar"
}
"_id": ObjectId("624bbe0ba0d049924c5006cb"),
"ld": 102,
"Name": "Prathap.K",
"sex": "M",
"Phone": 9874255456,
"Place" : "Solur"
"_id": ObjectId("624bbe0ba0d049924c5006cc"),
"ld": 103,
"Name": "Sampreeth",
"Age": 30,
```

```
"sex": "M",
"PhoneNo": 6783327876,
"Place": "Mysore"
> db.employee.find().pretty()
         " id" : ObjectId("624bb9eaefbd491e01b44290"),
         "Id" : 101,
         "Name" : "Soni",
         "Place" : "Bangalore",
"Age" : 21,
         "Sex" : "F"
         "Branch" : "ISE"
}
{
         "_id" : ObjectId("624bbc3ca0d049924c5006c9"),
         "Id" : 101,
         "Name" : "soni.a",
         "Age" : 28,
         "sex": "F",
         "PhoneNo": 9837791737,
         "Place" : "Bangalore"
}
{
         "_id" : ObjectId("624bbe0ba0d049924c5006ca"),
         "Id" : 101,
         "Name" : "Sonal.M",
         "Age" : 27,
"sex" : "F",
         "PhoneNo" : 7637791737,
         "Place" : "Kolar"
}
{
         "_id" : ObjectId("624bbe0ba0d049924c5006cb"),
         "Id" : 102,
         "Name" : "Prathap.K",
         "sex" : "M",
         "Phone": 9874255456,
         "Place" : "Solur"
         " id" : ObjectId("624bbe0ba0d049924c5006cc"),
         "Id": 103,
         "Name" : "Sampreeth",
         "Age" : 30,
         "sex" : "M",
         "PhoneNo": 6783327876,
         "Place" : "Mysore"
```

#### >Show Collection command used to show table name

> show collections employee

```
> show collections
employee
```

# **Update Operation**

# >Command to update one value using set

```
> db.employee.updateOne({Id:103},{$set:{Age:27}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
Output
> db.employee.find().pretty()
"_id": ObjectId("624bb9eaefbd491e01b44290"),
"Id": 101,
"Name": "Soni",
"Place": "Bangalore",
"Age": 21,
"Sex": "F",
"Branch": "ISE"
"_id": ObjectId("624bbc3ca0d049924c5006c9"),
"ld": 101,
"Name": "soni.a",
"Age" : 28,
"sex": "F",
"PhoneNo": 9837791737,
"Place" : "Bangalore"
}
"_id": ObjectId("624bbe0ba0d049924c5006ca"),
"ld": 101,
"Name" : "Sonal.M",
"Age": 27,
"sex": "F",
"PhoneNo": 7637791737,
"Place": "Kolar"
```

```
"_id": ObjectId("624bbe0ba0d049924c5006cb"),
"ld": 102,
"Name": "Prathap.K",
"sex": "M",
"Phone": 9874255456,
"Place": "Solur"
"_id": ObjectId("624bbe0ba0d049924c5006cc"),
"ld": 103,
"Name": "Sampreeth",
"Age": 27,
"sex": "M".
"PhoneNo": 6783327876,
"Place": "Mysore"
  db.employee.updateOne({Id:103},{$set:{Age:27}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.employee.find().pretty()
         "_id" : ObjectId("624bb9eaefbd491e01b44290"),
         "Id" : 101,
         "Name" : "Śoni",
"Place" : "Bangalore",
         "Age" : 21,
         "Sex" : "F<sup>'</sup>,
"Branch" : "ISE"
         " id" : ObjectId("624bbc3ca0d049924c5006c9"),
         "Īd" : 101,
         "Name" : "soni.a",
         "Age" : 28,
         "sex" : "F",
"PhoneNo" : 9837791737,
         "Place" : "Bangalore"
```

```
" id" : ObjectId("624bbe0ba0d049924c5006ca"),
"Id" : 101,
"Name" : "Sonal.M",
"Age" : 27,
"sex" : "F",
"PhoneNo" : 7637791737,
"Place" : "Kolar"
"_id" : ObjectId("624bbe0ba0d049924c5006cb"),
"Id" : 102,
"Name" : "Prathap.K",
"sex" : "M",
"Phone": 9874255456,
"Place" : "Solur"
"_id" : ObjectId("624bbe0ba0d049924c5006cc"),
"Id" : 103,
"Name" : "Sampreeth",
"Age" : 27,
"sex" : "M",
"PhoneNo" : 6783327876, 
"Place" : "Mysore"
```

### >Command used to update many values using set.

```
> db.employee.updateMany({},{$set:{Place:"Bangalore"}})
{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 3 }

Output
> db.employee.find().pretty()
   "_id" : ObjectId("624bb9eaefbd491e01b44290"),
   "Id" : 101,
   "Name" : "Soni",
   "Place" : "Bangalore",
   "Age" : 21,
   "Sex" : "F",
   "Branch" : "ISE"
}
{
   "_id" : ObjectId("624bbc3ca0d049924c5006c9"),
   "Id" : 101,
   "Name" : "soni.a",
   "Age" : 28,
```

```
"sex": "F",
"PhoneNo": 9837791737,
"Place" : "Bangalore"
}
"_id": ObjectId("624bbe0ba0d049924c5006ca"),
"ld": 101,
"Name": "Sonal.M",
"Age": 27,
"sex": "F",
"PhoneNo": 7637791737,
"Place": "Bangalore"
" id": ObjectId("624bbe0ba0d049924c5006cb"),
"ld": 102,
"Name": "Prathap.K",
"sex": "M",
"Phone": 9874255456,
"Place" : "Bangalore"
}
"_id": ObjectId("624bbe0ba0d049924c5006cc"),
"ld": 103,
"Name": "Sampreeth",
"Age": 27,
"sex": "M",
"PhoneNo": 6783327876,
"Place": "Bangalore"
> db.employee.updateMany({},{$set:{Place:"Bangalore"}})
{ "acknowledged" : true, "matchedCount" : 5, "modifiedCount" : 3 }
> db.employee.find().pretty()
         "_id" : ObjectId("624bb9eaefbd491e01b44290"),
         "Id" : 101,
         "Name" : "Soni",
"Place" : "Bangalore",
         "Age" : 21,
         "Sex" : "F"
         "Branch" : "ISE"
```

```
"_id" : ObjectId("624bbc3ca0d049924c5006c9"),
        "Id" : 101,
        "Name" : "soni.a",
        "Age" : 28,
"sex" : "F"
        "PhoneNo": 9837791737,
        "Place" : "Bangalore"
}
{
        " id" : ObjectId("624bbe0ba0d049924c5006ca"),
        "Id" : 101,
        "Name" : "Sonal.M",
        "Age" : 27,
        "sex" : "F",
        "PhoneNo": 7637791737,
        "Place" : "Bangalore"
}
{
        " id" : ObjectId("624bbe0ba0d049924c5006cb"),
        "Id" : 102,
        "Name": "Prathap.K",
        "sex" : "M",
        "Phone" : 9874255456,
        "Place": "Bangalore"
}
{
        " id" : ObjectId("624bbe0ba0d049924c5006cc"),
        "Id": 103,
        "Name" : "Sampreeth",
        "Age" : 27,
        "sex": "M",
        "PhoneNo" : 6783327876,
        "Place" : "Bangalore"
```

#### >Command to update using unset.

```
> db.employee.updateOne({Id:101},{$unset:{Branch:"ISE"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }

Output
> db.employee.find().pretty()
{
"_id" : ObjectId("624bb9eaefbd491e01b44290"),
"Id" : 101,
"Name" : "Soni",
"Place" : "Bangalore",
```

```
"Age": 21,
"Sex" : "F"
"_id": ObjectId("624bbc3ca0d049924c5006c9"),
"ld": 101,
"Name": "soni.a",
"Age": 28,
"sex": "F",
"PhoneNo": 9837791737,
"Place": "Bangalore"
"_id": ObjectId("624bbe0ba0d049924c5006ca"),
"Id": 101,
"Name": "Sonal.M",
"Age": 27,
"sex": "F",
"PhoneNo": 7637791737,
"Place" : "Bangalore"
}
"_id": ObjectId("624bbe0ba0d049924c5006cb"),
"ld": 102,
"Name": "Prathap.K",
"sex": "M",
"Phone": 9874255456,
"Place": "Bangalore"
"_id": ObjectId("624bbe0ba0d049924c5006cc"),
"ld": 103,
"Name": "Sampreeth",
"Age": 27,
"sex": "M",
"PhoneNo": 6783327876,
"Place": "Bangalore"
}
```

```
> db.employee.updateOne({Id:101},{$unset:{Branch:"ISE"}})
{ "acknowledged" : true, "matchedCount" : 1, "modifiedCount" : 1 }
> db.employee.find().pretty()
{
        " id" : ObjectId("624bb9eaefbd491e01b44290"),
        "Id" : 101,
        "Name" : "Soni",
        "Place" : "Bangalore",
        "Age" : 21,
        "Sex" : "F"
}
{
        " id" : ObjectId("624bbc3ca0d049924c5006c9").
        "Id" : 101,
        "Name" : "soni.a",
        "Age" : 28,
        "sex" : "F",
        "PhoneNo": 9837791737,
        "Place" : "Bangalore"
}
{
        " id" : ObjectId("624bbe0ba0d049924c5006ca"),
        "Id" : 101,
        "Name" : "Sonal.M",
        "Age" : 27,
        "sex" : "F"
        "PhoneNo": 7637791737,
        "Place" : "Bangalore"
}
{
        " id" : ObjectId("624bbe0ba0d049924c5006cb"),
        "Id" : 102,
        "Name" : "Prathap.K",
        "sex" : "M",
        "Phone": 9874255456,
        "Place" : "Bangalore"
         "_id" : ObjectId("624bbe0ba0d049924c5006cc"),
         "Id": 103,
         "Name" : "Sampreeth",
         "Age" : 27,
         "sex" : "M",
         "PhoneNo": 6783327876,
         "Place" : "Bangalore"
```

# **Delete Operation**

#### >Command to delete value

```
> db.employee.deleteOne({Name:"Soni"})
{ "acknowledged" : true, "deletedCount" : 1 }
Output
> db.employee.find().pretty()
" id": ObjectId("624bbc3ca0d049924c5006c9"),
"ld": 101,
"Name": "soni.a",
"Age": 28,
"sex": "F",
"PhoneNo": 9837791737,
"Place": "Bangalore"
{
"_id": ObjectId("624bbe0ba0d049924c5006ca"),
"ld": 101,
"Name": "Sonal.M",
"Age": 27,
"sex": "F",
"PhoneNo": 7637791737,
"Place": "Bangalore"
}
"_id": ObjectId("624bbe0ba0d049924c5006cb"),
"ld": 102,
"Name": "Prathap.K",
"sex": "M",
"Phone": 9874255456,
"Place": "Bangalore"
"_id": ObjectId("624bbe0ba0d049924c5006cc"),
"ld": 103,
"Name": "Sampreeth",
"Age": 27,
"sex": "M",
"PhoneNo": 6783327876,
```

```
"Place": "Bangalore"
}
> db.employee.deleteOne({Name:"Soni"})
{ "acknowledged" : true, "deletedCount" : 1 }
 > db.employee.find().pretty()
 > db.employee.find().pretty()
         " id" : ObjectId("624bbc3ca0d049924c5006c9"),
         "Id" : 101,
         "Name" : "soni.a",
         "Age" : 28,
         "sex" : "F",
         "PhoneNo": 9837791737,
         "Place" : "Bangalore"
}
{
         " id" : ObjectId("624bbe0ba0d049924c5006ca"),
         "Id" : 101,
         "Name" : "Sonal.M",
         "Age" : 27,
         "sex" : "F",
         "PhoneNo" : 7637791737,
         "Place": "Bangalore"
}
{
         " id" : ObjectId("624bbe0ba0d049924c5006cb"),
         "Id" : 102,
         "Name" : "Prathap.K",
         "sex": "M",
"Phone": 9874255456,
         "Place": "Bangalore"
         "_id" : ObjectId("624bbe0ba0d049924c5006cc").
         "Id" : 103,
         "Name" : "Sampreeth",
         "Age" : 27,
         "sex" : "M",
         "PhoneNo": 6783327876,
         "Place" : "Bangalore"
```