

//MongoDB Operations :-

//dbname:- student

//Collection name:- Shubham

1) Create Collection-

//db.createCollection('Collection name');

//use 'Collection name'

```
test> show dbs
admin      40.00 KiB
config     96.00 KiB
local      40.00 KiB
student     8.00 KiB
test       16.00 KiB
test> use student
switched to db student
student> db.createCollection('Shubham');
{ ok: 1 }
student> use Shubham
```

CURD OPERATION

2) Insert Operation

//db.'dbname'.insert({values})

```
student> use Shubham
switched to db Shubham
Shubham> db.student.insert({
...   "Sid": 1,
...   "Fname": "Shubham",
...   "Lname": "Singh",
...   "Age": 21
... })
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('664a45ed66c114f484cdcd6') }
}
Shubham> db.student.insert({ "Sid": 2, "Fname": "Sumit", "Lname": "Joshi", "Age": 22 })
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('664a461266c114f484cdcd7') }
}
```

3) Find Operation

```
//db.'dbname'.find({}) //for all values  
//db.'dbname'.findOne({}) //for one value  
//db.'dbname'.find({values}) //for specific value
```

```
Shubham> db.student.find({})  
[  
  {  
    _id: ObjectId('664a45ed66c114f484cdcdf6'),  
    Sid: 1,  
    Fname: 'Shubham',  
    Lname: 'Singh',  
    Age: 21  
  },  
  {  
    _id: ObjectId('664a461266c114f484cdcdf7'),  
    Sid: 2,  
    Fname: 'Sumit',  
    Lname: 'Joshi',  
    Age: 22  
  }  
]  
Shubham> db.student.findOne({})  
{  
  _id: ObjectId('664a45ed66c114f484cdcdf6'),  
  Sid: 1,  
  Fname: 'Shubham',  
  Lname: 'Singh',  
  Age: 21  
}  
Shubham> db.student.find({"Fname": "Sumit"})  
[  
  {  
    _id: ObjectId('664a461266c114f484cdcdf7'),  
    Sid: 2,  
    Fname: 'Sumit',  
    Lname: 'Joshi',  
    Age: 22  
  }  
]  
Shubham>
```

4) Delete Operation

`//db.'dbname'.deleteOne({})` //for deleting one value

`//db.'dbname'.delete({values})` //for specific delete

```
Shubham> db.student.deleteOne({})
{ acknowledged: true, deletedCount: 1 }
Shubham> db.student.find({})
[
  {
    _id: ObjectId('664a461266c114f484cdcdf7'),
    Sid: 2,
    Fname: 'Sumit',
    Lname: 'Joshi',
    Age: 22
  },
  {
    _id: ObjectId('664a486b66c114f484cdcdf8'),
    Sid: 3,
    Fname: 'Vishal',
    Lname: 'Pandey',
    Age: 20
  },
  {
    _id: ObjectId('664a488266c114f484cdcdf9'),
    Sid: 4,
    Fname: 'Somya',
    Lname: 'Budhori',
    Age: 19
  }
]
Shubham>
```

5) Update Operation

`//db.'dbname'.update({values}, {$set: {new values}}) //for updating`

```
Shubham> db.student.update({"Sid": 2}, {$set: {"Age": 25}})
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Shubham>
```

AGGREGATE FUNCTION

6) Count Operation

`//db.'dbname'.count() //for count total values`

```
Shubham> db.student.count()
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
3
```

7) Inner Query

```
Shubham> db.student.aggregate([{$match:{Age: 23}},{$count:"total of age 23"}])
[ { 'total of age 23': 6 } ]
Shubham>
```