

# LAB-01

## MongoDB

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.createCollection('Customers')
{ ok: 1 }
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.createCollection('Student')
{ ok: 1 }
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.createCollection('Student')
{ ok: 1 }
```

```
Atlas atlas-ws5rct-shard-0 [primary] test> use mydb
switched to db mydb
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.deleteMany({Grade:'VII'})
{ acknowledged: true, deletedCount: 3 }
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.deleteOne({StudName:'JacobAdam'})
{ acknowledged: true, deletedCount: 0 }
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.drop()
true
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.dropDatabase()
{ ok: 1, dropped: 'mydb' }
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.find()
[
  {
    _id: ObjectId('67c6c3c3812483cc27dd4a5d'),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c3d8812483cc27dd4a5e'),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c458812483cc27dd4a5f'),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de@gmail.com'
  },
  {
    _id: ObjectId('67c6c47f812483cc27dd4a60'),
    RollNo: 3,
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de@gmail.com'
  },
  {
    _id: ObjectId('67c6c4a2812483cc27dd4a61'),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c4db812483cc27dd4a62'),
    RollNo: 10,
    Age: 23,
    Cont: 2276,
    email: 'rekha.de9@gmail.com'
  }
]
```

```
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.find()
```

```
[[
  {
    _id: ObjectId('67c6c3c3812483cc27dd4a5d'),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c3d8812483cc27dd4a5e'),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c458812483cc27dd4a5f'),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de@gmail.com'
  },
  {
    _id: ObjectId('67c6c47f812483cc27dd4a60'),
    RollNo: 3,
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de@gmail.com'
  },
  {
    _id: ObjectId('67c6c4a2812483cc27dd4a61'),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c4db812483cc27dd4a62'),
    RollNo: 10,
    Age: 23,
    Cont: 2276,
    email: 'abhinav@gmail.com'
  },
],
```

```
{
  _id: ObjectId('67c6c616812483cc27dd4a63'),
  RollNo: 11,
  Age: 22,
  Name: 'FEM',
  cont: 2276,
  email: 'rea.de9@gmail.com'
},
{
  _id: 1,
  StudName: 'Michelle Jacintha',
  Grade: 'VII',
  Hobbies: 'InternetSurfing'
},
{ _id: 2, StudName: 'Jannie', Grade: 'VIII', Hobbies: 'Music' },
{ _id: 3, StudName: 'Jacob Adam', Grade: 'VII', Hobbies: 'Swimming' },
{
  _id: 4,
  StudName: 'Amy Jacks',
  Grade: 'X',
  Hobbies: 'Dancing',
  Location: 'Network'
},
{ _id: 6, StudName: 'Aryan David', Grade: 'VII', Hobbies: 'Skating' }
]
```

```

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Customers.insert({cust_id:1,balance:2
00,type:'S'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c71f812483cc27dd4a64') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Customers.insert({cust_id:1,balance:1
000,type:'Z'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c739812483cc27dd4a65') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Customers.insert({cust_id:2,balance:1
00,type:'Z'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c74d812483cc27dd4a66') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Customers.insert({cust_id:2,balance:1
000,type:'C'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c75e812483cc27dd4a67') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Customers.insert({cust_id:2,balance:5
00,type:'C'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c76e812483cc27dd4a68') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Customers.insert({cust_id:2,balance:5
0,type:'S'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c781812483cc27dd4a69') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Customers.insert({cust_id:3,balance:5
00,type:'Z'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c795812483cc27dd4a6a') }
}

```

```

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insert({RollNo:1, Age:21, Con
t:9876, email:'antara.de9@gmail.com'});
DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany,
or bulkWrite.
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c3c3812483cc27dd4a5d') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insertOne({RollNo:1, Age:21,
Cont:9876, email:'antara.de9@gmail.com'});
{
  acknowledged: true,
  insertedId: ObjectId('67c6c3d8812483cc27dd4a5e')
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> show mydb
MongoShellInvalidInputError: [COMMON-10001] 'mydb' is not a valid argument for 'show
'.
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insert({RollNo:2, Age:22, Con
t:9976, email:'anushka.de@gmail.com'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c458812483cc27dd4a5f') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insert({RollNo:3, Age:21, Con
t:5576, email:'anubhav.de@gmail.com'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c47f812483cc27dd4a60') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insert({RollNo:4, Age:20, Con
t:4476, email:'pani.de9@gmail.com'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c4a2812483cc27dd4a61') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insert({RollNo:10, Age:23, Co
nt:2276, email:'rekha.de9@gmail.com'});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c4db812483cc27dd4a62') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insertMany([{_id:3, StudName:'
Jacob Adam', Grade:'VII', Hobbies:'Swimming'}, {_id:4, StudName:'Amy Jacks', Grade:'X', H
obbies:'Dancing'}])
{ acknowledged: true, insertedIds: { '0': 3, '1': 4 } }
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insert({_id:1, StudName:'Miche
lle Jacintha', Grade:'VII', Hobbies:'InternetSurfing'})
{ acknowledged: true, insertedIds: { '0': 1 } }
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insertOne({_id:2, StudName:'Ja
nnie', Grade:'VIII', Hobbies:'Music'})
{ acknowledged: true, insertedId: 2 }

```

```

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.find().pretty()
[
  {
    _id: ObjectId('67c6c3c3812483cc27dd4a5d'),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c3d8812483cc27dd4a5e'),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c458812483cc27dd4a5f'),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de@gmail.com'
  },
  {
    _id: ObjectId('67c6c47f812483cc27dd4a60'),
    RollNo: 3,
    Age: 21,
    Cont: 8876,
    email: 'anubhav.de@gmail.com'
  },
  {
    _id: ObjectId('67c6c4a2812483cc27dd4a61'),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gmail.com'
  },
  {
    _id: ObjectId('67c6c4db812483cc27dd4a62'),
    RollNo: 10,
    Age: 23,
    Cont: 2276,
    email: 'rekha.de9@gmail.com'
  }
]

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.save({StudName:'Vamsi',Grade:
'VI'})
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.updateOne({_id:6,StudName:'Ar
yan David',Grade:'VII'},{$set:{Hobbies:'Skating'}},{upsert:true})
{
  acknowledged: true,
  insertedId: 6,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.insert({RollNo:11,Age:22,Name
:'ABC',cont:2276,email:'rea.de9@gmail.com'})
{
  acknowledged: true,
  insertedIds: { '0': ObjectId('67c6c616812483cc27dd4a63') }
}
Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.update({RollNo:11,Name:'ABC'
},{set:{Name:'FEM'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.updateMany({Grade:'VII'},{$se
t:{status:'Active'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 3,
  modifiedCount: 2,
  upsertedCount: 0
}

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.updateOne({Grade:'VII'},{$se
t:{status:'Active'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

Atlas atlas-ws5rct-shard-0 [primary] mydb> db.Student.update({_id:4},{set:{Locatio
n:'Network'}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}

```