## Lab 1 MongoDB- CRUD Operations Demonstration (Practice and Self Study)

```
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.update({_{dd:3}, {$set:{location:null}}});

DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.

{
    acknowledged: true,
    insertedId: null,
    matchedCount: 1,
    upsertedCount: 0
}

Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find({Location:{$eq:null}});

{
    __id: 1,
    StudWane: 'Michelle Jacintha',
        Grade: 'VII',
    Hobbies: 'Internet Surfing'
},
    __id: 2, StudWane: 'Lando Norris', Grade: 'VII', Hobbies: 'Racing' },
    __id: 3,
    StudWane: 'Aryan David',
        Grade: 'VII',
    Hobbies: 'Sketing',
        Location: null
},
    __id: 4, StudWane: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' }

Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.update({_id:4}, {$set:{Location:null}});
    acknowledged: true,
    insertedId: null,
    natchedCount: 1,
    upsertedCount: 1,
    upsertedCount: 0
```

```
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find({Location:{$eq:null, $exists:true}});
      id: 3,
     StudName: 'Aryan David',
     Grade: 'VII',
Hobbies: 'Skating',
     Location: null
      id: 4,
     StudName: 'Gukesh D',
     Grade: 'VII',
Hobbies: 'Chess',
     {\tt Location:} \  \, {\tt null}
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.update({_id:4}, {$unset:{Location:null}})
  acknowledged: true,
   insertedId: null,
  matchedCount: 1,
  modifiedCount:
  upsertedCount: 0
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.update({_id:3}, {$unset:{Location:null}})
   acknowledged: true,
  insertedId: null,
  matchedCount: 1
  modifiedCount:
  upsertedCount:
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find({Location:{$eq:null, $exists:true}});
Atlas atlas-11p8k4-shard-0 [primary] studentDB>
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.count();
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
```

```
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find().sort({Grade:1,Hobbles:-1}).pretty();
     _id: 3, StudName: 'Aryan David', Grade: 'VII', Hobbies: 'Skating' }, _id: 2, StudName: 'Lando Norris', Grade: 'VII', Hobbies: 'Racing' },
     _id: 1,
StudName: 'Michelle Jacintha',
     Grade: 'VII',
Hobbies: 'Internet Surfing'
  { _id: 4, StudName: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' }
.
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find().sort({Grade:1,Hobbies:1}).pretty();
   { _id: 4, StudName: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' },
     _ld: 1,
StudName: 'Michelle Jacintha',
     Grade: 'VII',
Hobbies: 'Internet Surfing'
    _id: 2, StudName: 'Lando Norris', Grade: 'VII', Hobbles: 'Racing' },
_id: 3, StudName: 'Aryan David', Grade: 'VII', Hobbles: 'Skating' }
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find().skip(2).pretty();
     _id: 3, StudName: 'Aryan David', Grade: 'VII', Hobbies: 'Skating' }, _id: 4, StudName: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' }
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find().skip(1).pretty().sort({StudName:1})
    _id: 4, StudName: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' }, _id: 2, StudName: 'Lando Norris', Grade: 'VII', Hobbies: 'Racing' },
     _id: 1,
StudName: 'Michelle Jacintha',
    Grade: 'VII',
Hobbies: 'Internet Surfing'
1
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find().skip(1).pretty().sort({StudName:1})
     _id: 4, StudName: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' }, _id: 2, StudName: 'Lando Norris', Grade: 'VII', Hobbies: 'Racing' },
      StudName: 'Michelle Jacintha',
     Grade: 'VII',
Hobbies: 'Internet Surfing'
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find().pretty().skip(db.Student.count()-2);
   { _id: 3, StudName: 'Aryan David', Grade: 'VII', Hobbies: 'Skating' },
{ _id: 4, StudName: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' }
.
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.find().pretty().skip(2).limit(3);
   { _id: 3, StudName: 'Aryan David', Grade: 'VII', Hobbies: 'Skating' }, { _id: 4, StudName: 'Gukesh D', Grade: 'VII', Hobbies: 'Chess' }
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.update({_id:1}, {$set:{age:20}});
   acknowledged: true,
   insertedId: null.
   matchedCount: 1,
   modifiedCount:
  upsertedCount: @
Atlas atlas-11p8k4-shard-0 [primary] studentDB> db.Student.update({_id:2}, {$set:{age:21}});
   acknowledged: true,
   insertedId: null,
   matchedCount: 1.
   modifiedCount:
   upsertedCount: @
Atlas atlas-11p8k4-shard-0 [primary] customerDB> db.customers.aggregate([
 ... }
... }
... ]
... ]
... ]);
[ { _id: 'custid', minAccBal: null, maxAccBal: null } ]
Atlas atlas-11p8k4-shard-0 [primary] customerDB> db.customers.aggregate([ { Sgroup: { _id: "$custid", minAccBal: { $min: "$Balance" }, maxAccBal: { $max: "$Balance" } } ] );
    _id: 3, minAccBal: null, maxAccBal: null },
_id: 2, minAccBal: null, maxAccBal: null },
_id: 1, minAccBal: null, maxAccBal: null }
Åtlas atlas-11p8k4-shard-0 [primary] customerDB>
```