# BDA LAB-1

Srikrishna Vadhiraja Vaman

1BM21CS219

1. Create a database "Student" with the following attributes , RollNo, Age, ContactNo, Email-Id.

```
[
  {
    _id: ObjectId("660a7a96e984f9d7dd18d38f"),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7a9ce984f9d7dd18d390"),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7aa1e984f9d7dd18d391"),
    RollNo: 3,
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7aa5e984f9d7dd18d392"),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gmail.com'
  },
  {
```

```
    email: 'pani.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7aabe984f9d7dd18d393"),
    RollNo: 10,
    Age: 23,
    Cont: 2276,
    email: 'rekha.de9@gmail.com'
  }
]
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.update({RollNo:10},{$set:{
... email:"Abhinav@gmail.com"}})
DeprecationWarning: Collection.update() is deprecated. Use updateOne, updateMany, or bulkWrite.
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.insert({RollNo:11,Age:22,Name:
... "ABC",Cont:2276,email:"rea.de9@gmail.com"});
{
  acknowledged: true,
  insertedIds: { '0': ObjectId("660a7acde984f9d7dd18d394") }
}
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.update({RollNo:11,Name:"ABC"},{$se
... t:{Name:"FEM"}})
Uncaught:
SyntaxError: Unexpected token, expected "," (2:0)
```

```
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.update({RollNo:11,Name:"ABC"},{$set:{Name:"FEM"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.find()
[
  {
    _id: ObjectId("660a7a96e984f9d7dd18d38f"),
    RollNo: 1,
    Age: 21,
    Cont: 9876,
    email: 'antara.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7a9ce984f9d7dd18d390"),
    RollNo: 2,
    Age: 22,
    Cont: 9976,
    email: 'anushka.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7aa1e984f9d7dd18d391"),
    RollNo: 3,
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de9@gmail.com'
```

```
mongosh mongodb+srv://<c    ×    +    ∨
    Age: 21,
    Cont: 5576,
    email: 'anubhav.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7aa5e984f9d7dd18d392"),
    RollNo: 4,
    Age: 20,
    Cont: 4476,
    email: 'pani.de9@gmail.com'
  },
  {
    _id: ObjectId("660a7aabe984f9d7dd18d393"),
    RollNo: 10,
    Age: 23,
    Cont: 2276,
    email: 'Abhinav@gmail.com'
  },
  {
    _id: ObjectId("660a7acde984f9d7dd18d394"),
    RollNo: 11,
    Age: 22,
    Name: 'FEM',
    Cont: 2276,
    email: 'rea.de9@gmail.com'
  }
]
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.update({RollNo:10},{$set:{
... email:"Abhinav@gmail.com"}})
{
```

```
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.update({RollNo:10},{$set:{
... email:"Abhinav@gmail.com"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 0,
  upsertedCount: 0
}
Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.update({RollNo:11,Name:"ABC"},{$se
... t:{Name:"FEM"}})
Uncaught:
SyntaxError: Unexpected token, expected "," (2:0)

  1 | db.Student.update({RollNo:11,Name:"ABC"},{$se
> 2 | t:{Name:"FEM"}})
    | ^
  3 |

Atlas atlas-f4tdyn-shard-0 [primary] test> db.Student.update({RollNo:11,Name:"ABC"},{$set:{Name:"FEM"}})
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 0
}
Atlas atlas-f4tdyn-shard-0 [primary] test> use myDB;
switched to db myDB
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db;
```

Perform the following in Mongoshell
1. Execute the mongodb queries given in MongoDB_BDA_Final document.
2. Execute MongoDB exercises (Write it in observation)

```
Atlas atlas-f4tdyn-shard-0 [primary] test> use myDB;
switched to db myDB
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db;
myDB
Atlas atlas-f4tdyn-shard-0 [primary] myDB> show dbs;
sample_mflix  116.12 MiB
test           72.00 KiB
admin         336.00 KiB
local           4.99 GiB
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.createCollection("Student");
Uncaught:
SyntaxError: Unexpected character '"'. (1:20)

> 1 | db.createCollection("Student");
    |                     ^
  2 |

Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.createCollection('Student');
{ ok: 1 }
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.drop();
true
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.insert({_id:1,StudName:&quot;MichelleJacintha&quot;,Grade:&quot;V
I&quot;,Hobbies:&quot;InternetS
Uncaught:
SyntaxError: Unexpected token (1:34)

> 1 | db.Student.insert({_id:1,StudName:&quot;MichelleJacintha&quot;,Grade:&quot;VII&quot;,Hobbies:&quot;InternetS
    |                                  ^
  2 |
```

```
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.insert({_id:1,StudName:"MichelleJacintha",Grade:"VII",Hobbies:"Int
ernetSurfing"});
{ acknowledged: true, insertedIds: { '0': 1 } }
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.update({_id:3,StudName:&quot;AryanDavid&quot;,Grade:&quot;VII&quot
;},{$set:{Hobbies:&quot;Skatin
Uncaught:
SyntaxError: Unexpected token (1:34)

> 1 | db.Student.update({_id:3,StudName:&quot;AryanDavid&quot;,Grade:&quot;VII&quot;},{$set:{Hobbies:&quot;Skatin
    |                                  ^
  2 |

Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.update({_id:3,StudName:"AryanDavid",Grade:"VII"},{$set:{Hobbies:"S
kating"}},{upsert:true});
{
  acknowledged: true,
  insertedId: 3,
  matchedCount: 0,
  modifiedCount: 0,
  upsertedCount: 1
}
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.find({StudName:"Aryan David"});

Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.find({},{StudName:1,Grade:1,_id:0});
[
  { StudName: 'MichelleJacintha', Grade: 'VII' },
  { Grade: 'VII', StudName: 'AryanDavid' }
]
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.find({Grade:{$eq:&#39;VII&#39;}}).pretty();
Uncaught:
```

```
> 1 | db.Student.find({Hobbies :{ $in: ['Chess','Skating';]}}).pretty ();
    |                                               ^
  2 |

Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.find({Hobbies :{ $in: ['Chess','Skating']}}).pretty ();
[
  { _id: 3, Grade: 'VII', StudName: 'AryanDavid', Hobbies: 'Skating' }
]
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.find({StudName:/^M/}).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.find({StudName:/e/}).pretty();
[
  {
    _id: 1,
    StudName: 'MichelleJacintha',
    Grade: 'VII',
    Hobbies: 'InternetSurfing'
  }
]
Atlas atlas-f4tdyn-shard-0 [primary] myDB> db.Student.count();
DeprecationWarning: Collection.count() is deprecated. Use countDocuments or estimatedDocumentCount.
2
```