WORKING WITH MONGODB

I. CREATE DATABASE IN MONGODB.

```
Atlas atlas-8epmyl-shard-0 [primary] mydb> use bds
switched to db bds
Atlas atlas-8epmyl-shard-0 [primary] bds> show dbs
admin 232.00 KiB
local 27.65 GiB
```

II. CREATE OPERATIONS:

1. To create a collection by the name "Student". Let us take a look at the collection list prior to the creation of the new collection "Student".

db.createCollection("Student");

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.createCollection("student"); { ok: 1 }
```

2. To drop a collection by the name "Student".

db.Student.drop();

```
Atlas atlas-8epmyl-shard-0 [primary] bds> show collections
student
Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.drop()
true
Atlas atlas-8epmyl-shard-0 [primary] bds> show collections
```

3. Create a collection by the name "Students" and store the following data in it.

db.Student.insert({_id:1,StudName:"MichelleJacintha",Grade:"VII",Hobbies:"InternetSurfing"});

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.createCollection("student"); { ok: 1 }
Atlas atlas-8epmyl-shard-0 [primary] bds> show collections student
```

III. INSERT OPERATIONS:

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.insert({id:1,studname:"anu",grade:"I",section:"B"})

DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.

{
    acknowledged: true,
    insertedIds: { '0': ObjectId('67c6dedf4f4e6bac69fa4214') }

}

Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.insert({id:2,studname:"seenu",grade:"II",section:"A"})

{
    acknowledged: true,
    insertedIds: { '0': ObjectId('67c6def64f4e6bac69fa4215') }

}

Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.insert({id:3,studname:"thanu",grade:"III",section:"A"})

{
    acknowledged: true,
    insertedIds: { '0': ObjectId('67c6df1a4f4e6bac69fa4216') }

acknowledged: true,
    insertedIds: { '0': ObjectId('67c6df1a4f4e6bac69fa4216') }

}
```

IV.UPDATE OPERATIONS

Before updating Collection:

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.find()
  {
    _id: ObjectId('67c6dedf4f4e6bac69fa4214'),
    id: 1,
    studname: 'anu',
    grade: 'I'
   section: 'B'
  ۲۰
۱
    _id: ObjectId('67c6def64f4e6bac69fa4215'),
    id: 2,
    studname: 'seenu',
    grade: 'II'
    section: 'A'
    _id: ObjectId('67c6df1a4f4e6bac69fa4216'),
    studname: 'thanu',
   grade: 'III',
    section: 'A'
```

update operation:

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.update({id:3,studname:"thanu",grade:"III"},{$set:{grade:"V"}})

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

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

After updating Collection:

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.find()
  {
    _id: ObjectId('67c6dedf4f4e6bac69fa4214'),
    id: 1,
    studname: 'anu',
    grade: 'I'
    section: 'B'
    _id: ObjectId('67c6def64f4e6bac69fa4215'),
    id: 2,
    studname: 'seenu',
    grade: 'II',
section: 'A'
    _id: ObjectId('67c6df1a4f4e6bac69fa4216'),
    id: 3,
    studname: 'thanu',
    grade: 'V',
    section: 'A'
  }
```

V. FIND METHOD

A. To search for documents from the "Students" collection based on certain search criteria.

B. To display only the StudName and Grade from all the documents of the Students collection. The identifier_id should be suppressed and NOT displayed.

```
Atlas atlas=8epmyl=shard=0 [primary] bds> db.student.find({},{studname:1,gra
de:1,_id:0})
[
    { studname: 'anu', grade: 'I' },
    { studname: 'seenu', grade: 'II' },
    { studname: 'thanu', grade: 'V' }
]
```

C. To find those documents where the Grade is set to 'I'

D. To find those documents from the Students collection where the student name is set to either 'anu' or is set to 'seenu'.

E. To find documents from the Students collection where the StudName begins with "s".

F. To find documents from the Students collection where the StudNamehas an "e" in any position.

G. To find documents from the Students collection where the StudName ends with "u".

H. To find the number of documents in the Students collection.

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.count();
```

I. To sort the documents from the Students collection in the descending order of StudName.

J. To sort the documents from the Students collection in the ascending order of StudName.

```
Atlas atlas-8epmyl-shard-0 [primary] bds> db.student.find().sort({studname:1}).pretty()

{
    _id: ObjectId('67c6dedf4f4e6bac69fa4214'),
    id: 1,
    studname: 'anu',
    grade: 'I',
    section: 'B'

}

_id: ObjectId('67c6def64f4e6bac69fa4215'),
    id: 2,
    studname: 'seenu',
    grade: 'II',
    section: 'A'

}

{
    _id: ObjectId('67c6df1a4f4e6bac69fa4216'),
    id: 3,
    studname: 'thanu',
    grade: 'V',
    section: 'A'

}

}
```