Practice Basic CRUD

Perform the following tasks:

1. Create a database named "Students"

> use Students

switched to db Students

> db

Students

```
> use Students
switched to db Students
> db
Students
```

2. Create an empty collection named "studentData"

> db.createCollection("studentData")

{ "ok" : 1 }

```
> db.createCollection("studentData")
{ "ok" : 1 }
```

3. Insert only one record with appropriate fields.

> db.studentData.insert({Name : "Neha",Sem : 2,Branch : "MCA",City : "Rajkot"})

WriteResult({ "nInserted" : 1 })

```
> db.studentData.insert({Name : "Neha",Sem : 2,Branch : "MCA",City : "Rajkot"})
WriteResult({ "nInserted" : 1 })
```

4. Try to insert 5 records together using single query

```
> db.studentData.insertMany([

...      {Name : "Pooja",sem : 3,Branch : "BCA",City : "Surat"},

...      {Name : "Kinjal",sem : 2,Branch : "MCA",City : "Mumbai"},

...      {Name : "Prisha",sem : 1,Branch : "BBA",City : "Vadodara"},

...      {Name : "Meera",sem : 2,Branch : "BCA",City : "Surat"},

...      {Name : "Prisha",sem : 3,Branch : "MCA",City : "Rajkot"},

... ])
{
    "acknowledged" : true,
    "insertedIds" : [
        ObjectId("6283cb665250ffcc90efc9f6"),
        ObjectId("6283cb665250ffcc90efc9f7"),
        ObjectId("6283cb665250ffcc90efc9f8"),
        ObjectId("6283cb665250ffcc90efc9f9"),
        ObjectId("6283cb665250ffcc90efc9fa")
    ]
}
```

```
> db.studentData.insertMany([
...       {Name : "Pooja",sem : 3,Branch : "BCA",City : "Surat"},
...       {Name : "Kinjal",sem : 2,Branch : "MCA",City : "Mumbai"},
...       {Name : "Prisha",sem : 1,Branch : "BBA",City : "Vadodara"},
...       {Name : "Meera",sem : 2,Branch : "BCA",City : "Surat"},
...       {Name : "Prisha",sem : 3,Branch : "MCA",City : "Rajkot"},
...  ])
{
      "acknowledged" : true,
      "insertedIds" : [
              ObjectId("6283cb665250ffcc90efc9f6"),
              ObjectId("6283cb665250ffcc90efc9f7"),
              ObjectId("6283cb665250ffcc90efc9f8"),
              ObjectId("6283cb665250ffcc90efc9f9"),
              ObjectId("6283cb665250ffcc90efc9fa")
      ]
}
```

5. Fetch all the documents in formatted manner.

> db.studentData.find().pretty()

{

    "_id" : ObjectId("6283ca745250ffcc90efc9f5"),

    "Name" : "Neha",

    "Sem" : 2,

    "Branch" : "MCA",

    "City" : "Rajkot"

}

{

    "_id" : ObjectId("6283cb665250ffcc90efc9f6"),

    "Name" : "Pooja",

    "sem" : 3,

    "Branch" : "BCA",

    "City" : "Surat"

```
}
{
        "_id" : ObjectId("6283cb665250ffcc90efc9f7"),

        "Name" : "Kinjal",

        "sem" : 2,

        "Branch" : "MCA",

        "City" : "Mumbai"
}
{

        "_id" : ObjectId("6283cb665250ffcc90efc9f8"),

        "Name" : "Prisha",

        "sem" : 1,

        "Branch" : "BBA",

        "City" : "Vadodara"
}
{

        "_id" : ObjectId("6283cb665250ffcc90efc9f9"),

        "Name" : "Meera",

        "sem" : 2,

        "Branch" : "BCA",

        "City" : "Surat"
}
{

        "_id" : ObjectId("6283cb665250ffcc90efc9fa"),

        "Name" : "Prisha",

        "sem" : 3,
```

"Branch" : "MCA",

"City" : "Rajkot"

}

```
> db.studentData.find().pretty()
{
        "_id" : ObjectId("6283ca745250ffcc90efc9f5"),
        "Name" : "Neha",
        "Sem" : 2,
        "Branch" : "MCA",
        "City" : "Rajkot"
}
{
        "_id" : ObjectId("6283cb665250ffcc90efc9f6"),
        "Name" : "Pooja",
        "sem" : 3,
        "Branch" : "BCA",
        "City" : "Surat"
}
{
        "_id" : ObjectId("6283cb665250ffcc90efc9f7"),
        "Name" : "Kinjal",
        "sem" : 2,
        "Branch" : "MCA",
        "City" : "Mumbai"
}
{
        "_id" : ObjectId("6283cb665250ffcc90efc9f8"),
        "Name" : "Prisha",
        "sem" : 1,
        "Branch" : "BBA",
        "City" : "Vadodara"
}
{
        "_id" : ObjectId("6283cb665250ffcc90efc9f9"),
        "Name" : "Meera",
        "sem" : 2,
        "Branch" : "BCA",
        "City" : "Surat"

{
        "_id" : ObjectId("6283cb665250ffcc90efc9fa"),
        "Name" : "Prisha",
        "sem" : 3,
        "Branch" : "MCA",
        "City" : "Rajkot"
}
```

6. Fetch the document based on the filter criteria.

> db.studentData.find({Name : "Pooja"},{Name : 1,_id : 0}).pretty()

{ "Name" : "Pooja" }

```
> db.studentData.find({Name : "Pooja"},{Name : 1,_id : 0}).pretty()
{ "Name" : "Pooja" }
```

7. Delete one document from the "studentData".

> db.studentData.deleteOne({Name : "Prisha"})

{ "acknowledged" : true, "deletedCount" : 1 }

> db.studentData.find()

{ "_id" : ObjectId("6283ca745250ffcc90efc9f5"), "Name" : "Neha", "Sem" : 2, "Branch" : "MCA", "City" : "Rajkot" }

{ "_id" : ObjectId("6283cb665250ffcc90efc9f6"), "Name" : "Pooja", "sem" : 3, "Branch" : "BCA", "City" : "Surat" }

{ "_id" : ObjectId("6283cb665250ffcc90efc9f7"), "Name" : "Kinjal", "sem" : 2, "Branch" : "MCA", "City" : "Mumbai" }

{ "_id" : ObjectId("6283cb665250ffcc90efc9f9"), "Name" : "Meera", "sem" : 2, "Branch" : "BCA", "City" : "Surat" }

{ "_id" : ObjectId("6283cb665250ffcc90efc9fa"), "Name" : "Prisha", "sem" : 3, "Branch" : "MCA", "City" : "Rajkot" }

```
> db.studentData.find({Name : "Pooja"},{Name : 1,_id : 0}).pretty()
{ "Name" : "Pooja" }
> db.studentData.deleteOne({Name : "Prisha"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.studentData.find()
{ "_id" : ObjectId("6283ca745250ffcc90efc9f5"), "Name" : "Neha", "Sem" : 2, "Branch" : "MCA", "City" : "Rajkot" }
{ "_id" : ObjectId("6283cb665250ffcc90efc9f6"), "Name" : "Pooja", "sem" : 3, "Branch" : "BCA", "City" : "Surat" }
{ "_id" : ObjectId("6283cb665250ffcc90efc9f7"), "Name" : "Kinjal", "sem" : 2, "Branch" : "MCA", "City" : "Mumbai" }
{ "_id" : ObjectId("6283cb665250ffcc90efc9f9"), "Name" : "Meera", "sem" : 2, "Branch" : "BCA", "City" : "Surat" }
{ "_id" : ObjectId("6283cb665250ffcc90efc9fa"), "Name" : "Prisha", "sem" : 3, "Branch" : "MCA", "City" : "Rajkot" }
```

8. Delete the documents based on the filter criteria.

> db.studentData.deleteOne({Name : "Meera"})

{ "acknowledged" : true, "deletedCount" : 1 }

> db.studentData.find()

{ "_id" : ObjectId("6283ca745250ffcc90efc9f5"), "Name" : "Neha", "Sem" : 2, "Branch" : "MCA", "City" : "Rajkot" }

{ "_id" : ObjectId("6283cb665250ffcc90efc9f6"), "Name" : "Pooja", "sem" : 3, "Branch" : "BCA", "City" : "Surat" }

{ "_id" : ObjectId("6283cb665250ffcc90efc9f7"), "Name" : "Kinjal", "sem" : 2, "Branch" : "MCA", "City" : "Mumbai" }

{ "_id" : ObjectId("6283cb665250ffcc90efc9fa"), "Name" : "Prisha", "sem" : 3, "Branch" : "MCA", "City" : "Rajkot" }

```
> db.studentData.deleteOne({Name : "Meera"})
{ "acknowledged" : true, "deletedCount" : 1 }
> db.studentData.find()
{ "_id" : ObjectId("6283ca745250ffcc90efc9f5"), "Name" : "Neha", "Sem" : 2, "Branch" : "MCA", "City" : "Rajkot" }
{ "_id" : ObjectId("6283cb665250ffcc90efc9f6"), "Name" : "Pooja", "sem" : 3, "Branch" : "BCA", "City" : "Surat" }
{ "_id" : ObjectId("6283cb665250ffcc90efc9f7"), "Name" : "Kinjal", "sem" : 2, "Branch" : "MCA", "City" : "Mumbai" }
{ "_id" : ObjectId("6283cb665250ffcc90efc9fa"), "Name" : "Prisha", "sem" : 3, "Branch" : "MCA", "City" : "Rajkot" }
```

9. Delete all the documents from the "studentData: collection

> db.studentData.deleteMany({})

{ "acknowledged" : true, "deletedCount" : 4 }

> db.studentData.find()

```
> db.studentData.deleteMany({})
{ "acknowledged" : true, "deletedCount" : 4 }
> db.studentData.find()
```

10. Drop the collection.

> db.studentData.drop()

true

```
> db.studentData.drop()
true
```