3. Create a collection student consists of details like rollno, name, phoneno, city, year of course, score.

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

4. Insert the details of the multiple students (atleast 5) in the form of documents in the student collection.

```
> db.student.insertMany([
       {rollno:1,name:"Sujith",phone_no:1234567890,marks:8.0,city:"Calicut",year_of_course:2020,s
core:8.0},
       {rollno:2,name:"Sarayu",phone_no:1357913579,marks:9.0,city:"Wayanad",year_of_course:202
1,score:90},
       {rollno:3,name:"Arun",phone_no:2468024680,marks:9.2,city:"Kollam",year_of_course:2022,s
core:92},
       {rollno:4,name: "Sana",phone_no:0987654321,marks:9.5,city: "Thrissur",year_of_course:2020,s
core:95},
       {rollno:5,name:"Kavya",phone_no:1223344556,marks:9.8,city:"Trivandrum",year_of_course:2
019,score:98},
       {rollno:6,name:"Shyam",phone no:1212343456,marks:8.9,city:"Kannur",year of course:2023
,score:89},
])
{
       "acknowledged": true,
       "insertedIds":[
             ObjectId("681854d7ccea34f7b69421eb"),
             ObjectId("681854d7ccea34f7b69421ec"),
             ObjectId("681854d7ccea34f7b69421ed"),
             ObjectId("681854d7ccea34f7b69421ee"),
             ObjectId("681854d7ccea34f7b69421ef"),
             ObjectId("681854d7ccea34f7b69421f0")
      ]
}
```

5. Retrieve the fields rollno, name, phoneno, city for all the documents in the collection student.

```
"rollno": 2, "name": "Sarayu", "phone_no": 1357913579, "marks": 9, "city": "Wayanad" }
 "rollno": 3, "name": "Arun", "phone_no": 2468024680, "marks": 9.2, "city": "Kollam" }
 "rollno": 4, "name": "Sana", "phone_no": 987654321, "marks": 9.5, "city": "Thrissur" }
 "rollno": 5, "name": "Kavya", "phone_no": 1223344556, "marks": 9.8, "city": "Trivandrum" }
{ "rollno" : 6, "name" : "Shyam", "phone no" : 1212343456, "marks" : 8.9, "city" : "Kannur" }
6. Display the details of students who achieved a score more than 90 and are from Thrissur'.
> db.student.find({$and:[
       {score:{$gt:90}},
       {city:"Thrissur"}
]})
{ "_id" : ObjectId("681854d7ccea34f7b69421ee"), "rollno" : 4, "name" : "Sana", "phone_no" :
987654321, "marks" : 9.5, "city" : "Thrissur", "year_of_course" : 2020, "score" : 95 }
7. Update the phone number of Sujith in the student collection. Retrieve the updated
information.
> db.student.updateOne({name:"Sujith"},{$set:{phone_no:9998887776}})
{ "acknowledged": true, "matchedCount": 1, "modifiedCount": 1 }
> db.student.find({name:"Sujith"})
{ "_id" : ObjectId("681854d7ccea34f7b69421eb"), "rollno" : 1, "name" : "Sujith", "phone_no" :
9998887776, "marks": 8, "city": "Calicut", "year_of_course": 2020, "score": 8 }
8. Update the year of course in all the documents in the student collection to 2021. Also retrieve
the updated information.
> db.student.updateMany({},{$set:{year_of_course:2021}})
{ "acknowledged": true, "matchedCount": 6, "modifiedCount": 5 }
> db.student.find()
{ "_id" : ObjectId("681854d7ccea34f7b69421eb"), "rollno" : 1, "name" : "Sujith", "phone_no" :
9998887776, "marks": 8, "city": "Calicut", "year_of_course": 2021, "score": 8}
{ "_id" : ObjectId("681854d7ccea34f7b69421ec"), "rollno" : 2, "name" : "Sarayu", "phone_no" :
1357913579, "marks": 9, "city": "Wayanad", "year_of_course": 2021, "score": 90 }
{ "_id" : ObjectId("681854d7ccea34f7b69421ed"), "rollno" : 3, "name" : "Arun", "phone_no" :
2468024680, "marks": 9.2, "city": "Kollam", "year_of_course": 2021, "score": 92 }
{ " id" : ObjectId("681854d7ccea34f7b69421ee"), "rollno" : 4, "name" : "Sana", "phone no" :
987654321, "marks" : 9.5, "city" : "Thrissur", "year_of_course" : 2021, "score" : 95 }
{ "_id" : ObjectId("681854d7ccea34f7b69421ef"), "rollno" : 5, "name" : "Kavya", "phone_no" :
1223344556, "marks": 9.8, "city": "Trivandrum", "year_of_course": 2021, "score": 98}
{ "_id" : ObjectId("681854d7ccea34f7b69421f0"), "rollno" : 6, "name" : "Shyam", "phone_no" :
1212343456, "marks": 8.9, "city": "Kannur", "year of course": 2021, "score": 89 }
9. Display the city of 'Sarayu'.
```

```
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> db.student.find({name: "Sarayu"},{ id:0,city:1})
{ "city" : "Wayanad" }
10. Retrieve the number of students who joined after May 2020 from the collection.
> db.student.find({year of course:{$gt:2020}}).count()
6
11. Arrange the name of the students in ascending order along with all the columns.
> db.student.find().sort({name:1})
{ "_id" : ObjectId("681854d7ccea34f7b69421ed"), "rollno" : 3, "name" : "Arun", "phone_no" :
2468024680, "marks": 9.2, "city": "Kollam", "year_of_course": 2021, "score": 92}
{ " id" : ObjectId("681854d7ccea34f7b69421ee"), "rollno" : 4, "name" : "Sanu", "phone no" :
987654321, "marks" : 9.5, "city" : "Thrissur", "year_of_course" : 2021, "score" : 95 }
{ "_id" : ObjectId("681854d7ccea34f7b69421ec"), "rollno" : 2, "name" : "Sarayu", "phone_no" :
1357913579, "marks": 9, "city": "Wayanad", "year_of_course": 2021, "score": 90 }
{ "id": ObjectId("681854d7ccea34f7b69421f0"), "rollno": 6, "name": "Shyam", "phone no":
1212343456, "marks": 8.9, "city": "Kannur", "year_of_course": 2021, "score": 89 }
{ "_id" : ObjectId("681854d7ccea34f7b69421ef"), "rollno" : 5, "name" : "Suhaid", "phone_no" :
1223344556, "marks": 9.8, "city": "Trivandrum", "year_of_course": 2021, "score": 98}
{ " id" : ObjectId("681854d7ccea34f7b69421eb"), "rollno" : 1, "name" : "Sujith", "phone no" :
9998887776, "marks": 8, "city": "Calicut", "year_of_course": 2021, "score": 8}
12. Rename attribute city as town.
> db.student.updateMany({},{$rename:{"city":"town"}})
{ "acknowledged": true, "matchedCount": 6, "modifiedCount": 6 }
13. Delete the details of the student whose name is 'Sujith' from the student collection
```

```
> db.student.deleteOne({name:"Sujith"})
{ "acknowledged": true, "deletedCount": 1 }
```