Md Yaseen Ahmed 1BM19CS404

Creating COLLEGE database

```
> show dbs;
admin 0.000GB
config 0.000GB
local 0.000GB
tshirt 0.001GB
> use college;
switched to db college
```

Creating STUDENT collection

```
> db.createCollection("Student",{autoIndexID: true});
{
        "ok" : 0,
        "errmsg" : "BSON field 'create.autoIndexID' is an unknown field.",
        "code" : 40415,
        "codeName" : "Location40415"
}
```

Inserting a document into the STUDENT collection

```
> db.Student.insert({ name: "Md Yaseen", usn: "1BM19CS404", sem: 6, dept: "CSE"
WriteResult({ "nInserted" : 1 })
> db.Student.insert({ name: "John Doe", usn: "1BM19IS104", sem: 4, dept: "ISE" }
WriteResult({ "nInserted" : 1 })
> db.Student.insert({ name: "Virat", usn: "1BM18CS172", sem: 6, dept: "CSE" });
WriteResult({ "nInserted" : 1 })
> db.Student.insert({ name: "David", usn: "1BM18CS007", sem: 6, dept: "CSE" });
WriteResult({ "nInserted" : 1 })
```

Reading the documents from the STUDENT collection

Md Yaseen Ahmed 1BM19CS404

```
db.Student.find().pretty()
      " id" : ObjectId("6078095738b4d4382aa108c2"),
      "name" : "Md Yaseen",
      "usn": "1BM19CS404",
      "sem" : 6,
      "dept" : "CSE"
      "_id" : ObjectId("60780c8038b4d4382aa108c3"),
      "name" : "John Doe",
      "usn" : "1BM19IS104",
      "sem" : 4,
      "dept" : "ISE"
      " id" : ObjectId("60780cac38b4d4382aa108c4"),
      "name" : "Virat",
      "usn": "1BM18CS172",
      "sem" : 6,
      "dept" : "CSE"
      "_id" : ObjectId("60780cc238b4d4382aa108c5"),
      "name" : "David",
      "usn": "1BM18CS007",
      "sem" : 6,
      "dept" : "CSE"
```

<u>Updating a document in the STUDENT collection (setting the semester as "7" where the student's name is "Md Yaseen")</u>

```
> db.Student.update({name: "Md Yaseen"},{$set:{sem: 7}});
WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })
```

Md Yaseen Ahmed 1BM19CS404

```
> db.Student.find({name:"Md Yaseen"}).pretty();
{
        "_id" : ObjectId("6078095738b4d4382aa108c2"),
        "name" : "Md Yaseen",
        "usn" : "1BM19CS404",
        "sem" : 7,
        "dept" : "CSE"
}
```

<u>Deleting a document from the STUDENT collection whose</u> name is "David"

```
> db.Student.remove({name:"David"});
WriteResult({ "nRemoved" : 1 })
```

```
db.Student.find({name:"David"}).pretty()
db.Student.find().pretty()
       "_id" : ObjectId("6078095738b4d4382aa108c2"),
       "name" : "Md Yaseen",
       "usn" : "1BM19CS404",
       "sem" : 7,
       "dept" : "CSE"
       "_id" : ObjectId("60780c8038b4d4382aa108c3"),
       "name" : "John Doe",
       "usn" : "1BM19IS104<sup>"</sup>,
       "sem" : 4,
       "dept" : "ISE"
       "_id" : ObjectId("60780cac38b4d4382aa108c4"),
       "name" : "Virat",
       "usn" : "1BM18CS172",
       "sem" : 6,
       "dept" : "CSE"
```

FACULTY collection:

Md Yaseen Ahmed 1BM19CS404

```
> db.createCollection("faculty",{ autoIndexID: true });
{
         "ok" : 0,
         "errmsg" : "BSON field 'create.autoIndexID' is an unknown field.",
         "code" : 40415,
         "codeName" : "Location40415"
}
```

<pre>db.getCollection('faculty').find({}) implication (</pre>						
1 Dbjectld("607812da38b4d4382aa108c6")	■ Morgan	3124.0	5 Years	CSE CSE	75000.0	
2 Dbjectld("6078130438b4d4382aa108c7")	Tukaram	4512.0	6 Years	···· CSE	75000.0	
3 ObjectId("607813d738b4d4382aa108c8")	Tukaram	## 4512.0	E 6 Years	□□ CSE	65000.0	
4 ObjectId("607813fc38b4d4382aa108c9")	Rahul	1145.0	8 Years	□ ISE	50000.0	
5 ObjectId("6078144d38b4d4382aa108ca")	■ Virat	7654.0	3 Years	" ISE	45000.0	
6 ObjectId("6078145f38b4d4382aa108cb")	E Rohit	*** 7454.0	5 Years	□□ ISE	45000.0	

COE collection:

```
> db.COE.insert({
    ... designation: "head",
    ... name: "Basvaraj"
    ... });
WriteResult({ "nInserted" : 1 })
> db.COE.insert({ designation: "vicehead", name: "Prasad" });
WriteResult({ "nInserted" : 1 })
> db.COE.insert({ designation: "staff", name: "Reddy" });
WriteResult({ "nInserted" : 1 })
> db.COE.insert({ designation: "staff", name: "Rahul" });
WriteResult({ "nInserted" : 1 })
```

Md Yaseen Ahmed 1BM19CS404

```
> db.COE.find().pretty();
{
        "_id" : ObjectId("6078152738b4d4382aa108cc"),
        "designation" : "head",
        "name" : "Basvaraj"
}
{
        "_id" : ObjectId("6078153e38b4d4382aa108cd"),
        "designation" : "vicehead",
        "name" : "Prasad"
}
{
        "_id" : ObjectId("6078154e38b4d4382aa108ce"),
        "designation" : "staff",
        "name" : "Reddy"
}
{
        "_id" : ObjectId("6078155938b4d4382aa108cf"),
        "designation" : "staff",
        "name" : "Rahul"
}
```

E COE № 0.002 sec.					
ey	Value	Туре			
(1) ObjectId("6078152738b4d4382aa108cc")	{ 3 fields }	Object			
	ObjectId("6078152738b4d4382aa108cc")	ObjectId			
designation	head	String			
···· name	Basvaraj	String			
(2) ObjectId("6078153e38b4d4382aa108cd")	{ 3 fields }	Object			
	ObjectId("6078153e38b4d4382aa108cd")	ObjectId			
designation	vicehead	String			
"" name	Prasad	String			
(3) ObjectId("6078154e38b4d4382aa108ce")	{ 3 fields }	Object			
	ObjectId("6078154e38b4d4382aa108ce")	ObjectId			
designation	staff	String			
··· name	Reddy	String			
(4) ObjectId("6078155938b4d4382aa108cf")	{ 3 fields }	Object			
	ObjectId("6078155938b4d4382aa108cf")	ObjectId			
designation	staff	String			
"" name	Rahul	String			

LIBRARY collection

Md Yaseen Ahmed 1BM19CS404

```
> db.createCollection("library",{ autoIndexID: true});
{
        "ok" : 0,
        "errmsg" : "BSON field 'create.autoIndexID' is an unknown field.",
        "code" : 40415,
        "codeName" : "Location40415"
}
```

```
> db.library.insert({
    ... book_id: 1287,
    ... book_name: "BDA",
    ... borrower_name: "Md Yaseen"
    ... });
WriteResult({ "nInserted" : 1 })
> db.library.insert({ book_id: 9887, book_name: "ML", borrower_name: "Ahmed" });
WriteResult({ "nInserted" : 1 })
> db.library.insert({ book_id: 9897, book_name: "OOMD", borrower_name: "John" });
WriteResult({ "nInserted" : 1 })
> db.library.insert({ book_id: 7897, book_name: "DM", borrower_name: "James" });
WriteResult({ "nInserted" : 1 })
```

db.getCollection('library').find({}) iii library (0.003 sec. _id book_id book_name borrower_name 1 ObjectId("607815a638b4d4382aa108d0") **## 1287.0** ··· BDA Md Yaseen 2 ObjectId("607815b638b4d4382aa108d1") **##** 9887.0 ML - Ahmed 3 ObjectId("607815c638b4d4382aa108d2") **## 9897.0** OOMD " John 4 ObjectId("607815d638b4d4382aa108d3") DM **##** 7897.0 " James

Md Yaseen Ahmed 1BM19CS404

```
db.library.find().pretty();
      " id" : ObjectId("607815a638b4d4382aa108d0"),
      "book_id" : 1287,
      "book_name" : "BDA",
      "borrower_name" : "Md Yaseen"
      "_id" : ObjectId("607815b638b4d4382aa108d1"),
      "book_id" : 9887,
      "book_name" : "ML"
      "borrower_name" : "Ahmed"
      "_id" : ObjectId("607815c638b4d4382aa108d2"),
      "book_id" : 9897,
      "book_name" : "OOMD",
      "borrower_name" : "John"
      "_id" : ObjectId("607815d638b4d4382aa108d3"),
      "book id" : 7897,
      "book_name" : "DM",
      "borrower_name" : "James"
```

ADMISSION collection:

```
> db.createCollection("admission",{autoIndexID:true});
{
        "ok" : 0,
        "errmsg" : "BSON field 'create.autoIndexID' is an unknown field.",
        "code" : 40415,
        "codeName" : "Location40415"
}
```

Md Yaseen Ahmed 1BM19CS404

```
db.admission.insert({
... admission_id: 201900238,
... type: "DCET",
... amount_paid: 25300
WriteResult({ "nInserted" : 1 })
db.admission.insert({ admission_id: 201800987, type: "KCET", amount_paid: 35300 });
WriteResult({ "nInserted" : 1 })
db.admission.insert({ admission_id: 201800351, type: "COMEDK", amount_paid: 24631 });
WriteResult({ "nInserted" : 1 })
> db.admission.insert({ admission_id: 201900231, type: "DCET", amount_paid: 25463 });
WriteResult({ "nInserted" : 1 })
> db.admission.find().pretty();
          "_id" : ObjectId("6078164938b4d4382aa108d4"),
          "admission_id" : 201900238,
          "type" : "DCET"
          "amount_paid" : 25300
          "_id" : ObjectId("6078165c38b4d4382aa108d5"),
          "admission_id" : 201800987,
          "type" : "KCET"
          "amount_paid" : 35300
          "_id" : ObjectId("6078167038b4d4382aa108d6"),
          "admission_id" : 201800351,
          "type" : "COMEDK",
          "amount paid" : 24631
          "_id" : ObjectId("6078168b38b4d4382aa108d7"),
          "admission id" : 201900231,
          "type" : "DCET",
          "amount paid" : 25463
```

COLLEGE FESTIVAL collection:

Md Yaseen Ahmed 1BM19CS404

```
db.createCollection("festival",{autoIndexID: true});
        "errmsg" : "BSON field 'create.autoIndexID' is an unknown field.",
        "code": 40415,
        "codeName" : "Location40415"
db.festival.insert({ organiser: "Md Yaseen", year: 2020, location: "Auditorium Hall - 2", capacity: "Half" });
WriteResult({ "nInserted" : 1 })
> db.festival.insert({ organiser: "John", year: 2021, location: "Auditorium Hall - 1", capacity: "Full" });
WriteResult({ "nInserted" : 1 })
> db.festival.insert({ organiser: "James", year: 2019, location: "Auditorium Hall - 1", capacity: "Full" });
WriteResult({ "nInserted" : 1 })
> db.festival.insert({ organiser: "Virat", year: 2016, location: "Seminar Hall CSE - 2", capacity: "Full" });
WriteResult({ "nInserted" : 1 })
> db.festival.find().pretty();
          " id" : ObjectId("6078171838b4d4382aa108d8"),
          "organiser" : "Md Yaseen",
          "year" : 2020,
          "location" : "Auditorium Hall - 2",
          "capacity" : "Half"
          "_id" : ObjectId("6078172c38b4d4382aa108d9"),
          "organiser" : "John",
          "year" : 2021,
          "location" : "Auditorium Hall - 1",
          "capacity" : "Full"
          "_id" : ObjectId("6078173738b4d4382aa108da"),
          "organiser" : "James",
          "year" : 2019,
          "location" : "Auditorium Hall - 1",
          "capacity" : "Full"
          "_id" : ObjectId("6078175338b4d4382aa108db"),
          "organiser" : "Virat",
          "year" : 2016,
          "location" : "Seminar Hall CSE - 2",
          "capacity" : "Full"
```