1. Create Database:

```
use college_database
```

```
switched to db college_database
```

2. Create collection students:

```
db.createCollection("students")
```

0.195 sec.

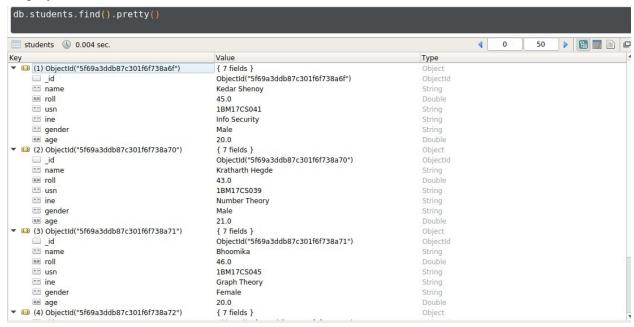| Key	Value	Type
(1)	{ 1 field }	Object
ok	1.0	Double

3. Insert documents into student collection:

```
db.students.insertMany([
    {
        name: "Kedar Shenoy",
        roll: 45,
        usn: "1BM17CS041",
        ine: "Info Security",
        gender: "Male",
        age: 20
    },
    {
        name: "Kratharth Hegde",
        roll: 43,
        usn: "1BM17CS039",
        ine: "Number Theory",
        gender: "Male",
        age: 21
    },
    {
```

0.009 sec.

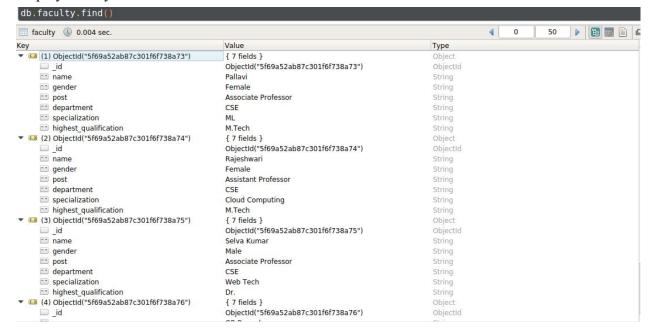| Key	Value	Type
▼ (1)	{ 2 fields }	Object
acknowledged	true	Boolean
▼ insertedIds	[4 elements]	Array
[0]	ObjectId("5f69a3ddb87c301f6f738a6f")	ObjectId
[1]	ObjectId("5f69a3ddb87c301f6f738a70")	ObjectId
[2]	ObjectId("5f69a3ddb87c301f6f738a71")	ObjectId
[3]	ObjectId("5f69a3ddb87c301f6f738a72")	ObjectId

4. Display students documents:

```
db.students.find().pretty()
```

students 0.004 sec.   ◄ 0   50 ►

Key	Value	Type
▼ (1) ObjectId("5f69a3ddb87c301f6f738a6f")	{ 7 fields }	Object
_id	ObjectId("5f69a3ddb87c301f6f738a6f")	ObjectId
name	Kedar Shenoy	String
roll	45.0	Double
usn	1BM17CS041	String
ine	Info Security	String
gender	Male	String
age	20.0	Double
▼ (2) ObjectId("5f69a3ddb87c301f6f738a70")	{ 7 fields }	Object
_id	ObjectId("5f69a3ddb87c301f6f738a70")	ObjectId
name	Kratharth Hegde	String
roll	43.0	Double
usn	1BM17CS039	String
ine	Number Theory	String
gender	Male	String
age	21.0	Double
▼ (3) ObjectId("5f69a3ddb87c301f6f738a71")	{ 7 fields }	Object
_id	ObjectId("5f69a3ddb87c301f6f738a71")	ObjectId
name	Bhoomika	String
roll	46.0	Double
usn	1BM17CS045	String
ine	Graph Theory	String
gender	Female	String
age	20.0	Double
▼ (4) ObjectId("5f69a3ddb87c301f6f738a72")	{ 7 fields }	Object

5. Create faculty collection:

```
db.createCollection("faculty")
```

```
0.203 sec.
```

Key	Value	Type
▼ (1)	{ 1 field }	Object
ok	1.0	Double

6. Insert documents into faculty collection:

```
db.faculty.insertMany([
    {
        name: "Pallavi",
        gender: "Female",
        post: "Associate Professor",
        department: "CSE",
        specialization: "ML",
        highest_qualification: "M.Tech"
    },
    {
        name: "Rajeshwari",
        gender: "Female",
        post: "Assistant Professor",
        department: "CSE",
        specialization: "Cloud Computing",
        highest_qualification: "M.Tech"
    },
    {
```

```
0.006 sec.
```

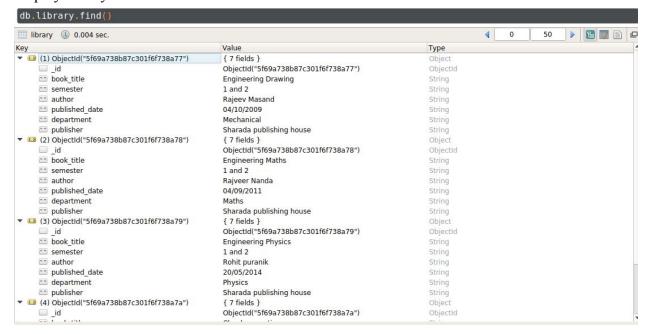| Key	Value	Type
▼ (1)	{ 2 fields }	Object
acknowledged	true	Boolean
▼ insertedIds	[4 elements]	Array
[0]	ObjectId("5f69a52ab87c301f6f738a73")	ObjectId
[1]	ObjectId("5f69a52ab87c301f6f738a74")	ObjectId
[2]	ObjectId("5f69a52ab87c301f6f738a75")	ObjectId
[3]	ObjectId("5f69a52ab87c301f6f738a76")	ObjectId

7. Display faculty collection:

```
db.faculty.find()
```

```
faculty    0.004 sec.                                            0    50
```

Key	Value	Type
▼ (1) ObjectId("5f69a52ab87c301f6f738a73")	{ 7 fields }	Object
_id	ObjectId("5f69a52ab87c301f6f738a73")	ObjectId
name	Pallavi	String
gender	Female	String
post	Associate Professor	String
department	CSE	String
specialization	ML	String
highest_qualification	M.Tech	String
▼ (2) ObjectId("5f69a52ab87c301f6f738a74")	{ 7 fields }	Object
_id	ObjectId("5f69a52ab87c301f6f738a74")	ObjectId
name	Rajeshwari	String
gender	Female	String
post	Assistant Professor	String
department	CSE	String
specialization	Cloud Computing	String
highest_qualification	M.Tech	String
▼ (3) ObjectId("5f69a52ab87c301f6f738a75")	{ 7 fields }	Object
_id	ObjectId("5f69a52ab87c301f6f738a75")	ObjectId
name	Selva Kumar	String
gender	Male	String
post	Associate Professor	String
department	CSE	String
specialization	Web Tech	String
highest_qualification	Dr.	String
▼ (4) ObjectId("5f69a52ab87c301f6f738a76")	{ 7 fields }	Object
_id	ObjectId("5f69a52ab87c301f6f738a76")	ObjectId

8. Create library collection:

```
db.createCollection("library")
```

Key	Value	Type
▼ (1)	{ 1 field }	Object
ok	1.0	Double

0.543 sec.

9. Insert documents into library collection:

```
    },
    {
        book_title: "Engineering Physics",
        semester: "1 and 2",
        author: "Rohit puranik",
        published_date: "20/05/2014",
        department: "Physics",
        publisher: "Sharada publishing house"
    },
    {
        book_title: "Cloud computing",
        semester: "5",
        author: "Vikhyath Bhatt",
        published_date: "28/10/2009",
        department: "Computer Science",
        publisher: "Sharada publishing house"
    }
])
```

0.006 sec.

Key	Value	Type
▼ (1)	{ 2 fields }	Object
acknowledged	true	Boolean
▼ insertedIds	[4 elements]	Array
[0]	ObjectId("5f69a738b87c301f6f738a77")	ObjectId
[1]	ObjectId("5f69a738b87c301f6f738a78")	ObjectId
[2]	ObjectId("5f69a738b87c301f6f738a79")	ObjectId
[3]	ObjectId("5f69a738b87c301f6f738a7a")	ObjectId

10. Display library collection:

```
db.library.find()
```

library   0.004 sec.   ◄ 0   50 ►

Key	Value	Type
▼ (1) ObjectId("5f69a738b87c301f6f738a77")	{ 7 fields }	Object
_id	ObjectId("5f69a738b87c301f6f738a77")	ObjectId
book_title	Engineering Drawing	String
semester	1 and 2	String
author	Rajeev Masand	String
published_date	04/10/2009	String
department	Mechanical	String
publisher	Sharada publishing house	String
▼ (2) ObjectId("5f69a738b87c301f6f738a78")	{ 7 fields }	Object
_id	ObjectId("5f69a738b87c301f6f738a78")	ObjectId
book_title	Engineering Maths	String
semester	1 and 2	String
author	Rajveer Nanda	String
published_date	04/09/2011	String
department	Maths	String
publisher	Sharada publishing house	String
▼ (3) ObjectId("5f69a738b87c301f6f738a79")	{ 7 fields }	Object
_id	ObjectId("5f69a738b87c301f6f738a79")	ObjectId
book_title	Engineering Physics	String
semester	1 and 2	String
author	Rohit puranik	String
published_date	20/05/2014	String
department	Physics	String
publisher	Sharada publishing house	String
▼ (4) ObjectId("5f69a738b87c301f6f738a7a")	{ 7 fields }	Object
_id	ObjectId("5f69a738b87c301f6f738a7a")	ObjectId

11.Create admission collection:

```
db.createCollection("admissions")
```

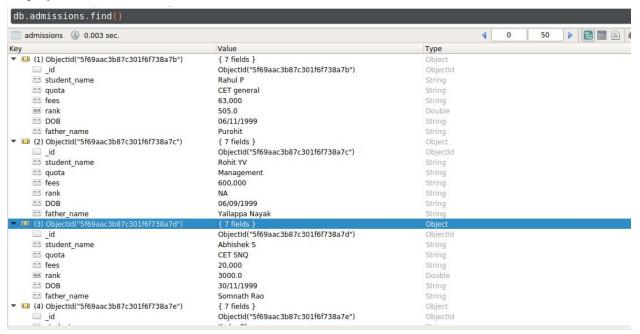|		
⏱ 1.14 sec.		
Key	**Value**	**Type**
▼ (1)	{ 1 field }	Object
ok	1.0	Double

12. Insert documents into admission collection:

```
db.admissions.insertMany([
    {
        student_name: "Rahul P",
        quota: "CET general",
        fees: "63,000",
        rank: 505,
        DOB: "06/11/1999",
        father_name: "Purohit"
    },
    {
        student_name: "Rohit YV",
        quota: "Management",
        fees: "600,000",
        rank: "NA",
        DOB: "06/09/1999",
        father_name: "Yallappa Nayak"
    },
    {
```

⏱ 0.004 sec.		
Key	**Value**	**Type**
▼ (1)	{ 2 fields }	Object
acknowledged	true	Boolean
▼ insertedIds	[4 elements]	Array
[0]	ObjectId("5f69aac3b87c301f6f738a7b")	ObjectId
[1]	ObjectId("5f69aac3b87c301f6f738a7c")	ObjectId
[2]	ObjectId("5f69aac3b87c301f6f738a7d")	ObjectId
[3]	ObjectId("5f69aac3b87c301f6f738a7e")	ObjectId

13. Display admission collection:

```
db.admissions.find()
```

▦ admissions ⏱ 0.003 sec.	◀ 0 50 ▶	
Key	**Value**	**Type**
▼ (1) ObjectId("5f69aac3b87c301f6f738a7b")	{ 7 fields }	Object
_id	ObjectId("5f69aac3b87c301f6f738a7b")	ObjectId
student_name	Rahul P	String
quota	CET general	String
fees	63,000	String
rank	505.0	Double
DOB	06/11/1999	String
father_name	Purohit	String
▼ (2) ObjectId("5f69aac3b87c301f6f738a7c")	{ 7 fields }	Object
_id	ObjectId("5f69aac3b87c301f6f738a7c")	ObjectId
student_name	Rohit YV	String
quota	Management	String
fees	600,000	String
rank	NA	String
DOB	06/09/1999	String
father_name	Yallappa Nayak	String
▼ (3) ObjectId("5f69aac3b87c301f6f738a7d")	{ 7 fields }	Object
_id	ObjectId("5f69aac3b87c301f6f738a7d")	ObjectId
student_name	Abhishek S	String
quota	CET SNQ	String
fees	20,000	String
rank	3000.0	Double
DOB	30/11/1999	String
father_name	Somnath Rao	String
▼ (4) ObjectId("5f69aac3b87c301f6f738a7e")	{ 7 fields }	Object
_id	ObjectId("5f69aac3b87c301f6f738a7e")	ObjectId

14. Create COE collection:

```
db.createCollection("coe")
```

```
0.2 sec.
```

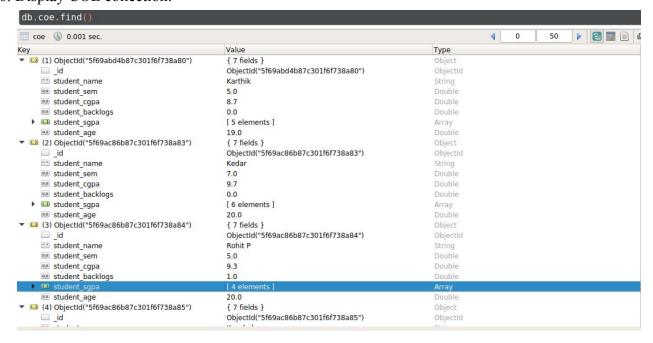| Key	Value	Type
▼ (1)	{ 1 field }	Object
ok	1.0	Double

15. Insert documents into COE collection:

```
    },
    {
        student_name: "Rohit P",
        student_sem: 5,
        student_cgpa: 9.3,
        student_backlogs: 1,
        student_sgpa: [9, 8, 8.5, 8.6],
        student_age: 20
    },
    {
        student_name: "Kaushal",
        student_sem: 3,
        student_cgpa: 9.6,
        student_backlogs: 0,
        student_sgpa: [9, 8, 8.5],
        student_age: 18
    }
])
```

```
0.004 sec.
```

Key	Value	Type
▼ (1)	{ 2 fields }	Object
acknowledged	true	Boolean
▼ insertedIds	[4 elements]	Array
[0]	ObjectId("5f69ac86b87c301f6f738a82")	ObjectId
[1]	ObjectId("5f69ac86b87c301f6f738a83")	ObjectId
[2]	ObjectId("5f69ac86b87c301f6f738a84")	ObjectId
[3]	ObjectId("5f69ac86b87c301f6f738a85")	ObjectId

16. Display COE collection:

```
db.coe.find()
```

```
coe    0.001 sec.                                        ◀  0   50  ▶
```

Key	Value	Type
▼ (1) ObjectId("5f69abd4b87c301f6f738a80")	{ 7 fields }	Object
_id	ObjectId("5f69abd4b87c301f6f738a80")	ObjectId
student_name	Karthik	String
student_sem	5.0	Double
student_cgpa	8.7	Double
student_backlogs	0.0	Double
▶ student_sgpa	[5 elements]	Array
student_age	19.0	Double
▼ (2) ObjectId("5f69ac86b87c301f6f738a83")	{ 7 fields }	Object
_id	ObjectId("5f69ac86b87c301f6f738a83")	ObjectId
student_name	Kedar	String
student_sem	7.0	Double
student_cgpa	9.7	Double
student_backlogs	0.0	Double
▶ student_sgpa	[6 elements]	Array
student_age	20.0	Double
▼ (3) ObjectId("5f69ac86b87c301f6f738a84")	{ 7 fields }	Object
_id	ObjectId("5f69ac86b87c301f6f738a84")	ObjectId
student_name	Rohit P	String
student_sem	5.0	Double
student_cgpa	9.3	Double
student_backlogs	1.0	Double
▶ student_sgpa	[4 elements]	Array
student_age	20.0	Double
▼ (4) ObjectId("5f69ac86b87c301f6f738a85")	{ 7 fields }	Object
_id	ObjectId("5f69ac86b87c301f6f738a85")	ObjectId

17. Create college fests collection:

```
db.createCollection("CollegeFests")
```

```
0.287 sec.
```

Key	Value	Type
▼ (1)	{ 1 field }	Object
ok	1.0	Double

18. Insert documents into college fests collection:

```
db.CollegeFests.insertMany([
    {
        name: "Ethnic day",
        period: "Even semester",
        duration: "one day",
        desc: "People dress up in ethnic wear",
        no_classes: true,
        location: "Whole college"
    },
    {
        name: "Utsav",
        period: "Even semester",
        duration: "3 days",
        desc: "Various events, competitions and DJ night.",
        no_classes: true,
        location: "Whole college"
    },
    {
```

```
0.001 sec.
```

Key	Value	Type
▼ (1)	{ 2 fields }	Object
acknowledged	true	Boolean
▼ insertedIds	[4 elements]	Array
[0]	ObjectId("5f69c651b87c301f6f738a86")	ObjectId
[1]	ObjectId("5f69c651b87c301f6f738a87")	ObjectId
[2]	ObjectId("5f69c651b87c301f6f738a88")	ObjectId
[3]	ObjectId("5f69c651b87c301f6f738a89")	ObjectId

19. Display college fests collection:

```
db.CollegeFests.find()
```

CollegeFests   0.003 sec.   ◀ 0   50 ▶

Key	Value	Type
▼ (1) ObjectId("5f69c651b87c301f6f738a86")	{ 7 fields }	Object
_id	ObjectId("5f69c651b87c301f6f738a86")	ObjectId
name	Ethnic day	String
period	Even semester	String
duration	one day	String
desc	People dress up in ethnic wear	String
no_classes	true	Boolean
location	Whole college	String
▼ (2) ObjectId("5f69c651b87c301f6f738a87")	{ 7 fields }	Object
_id	ObjectId("5f69c651b87c301f6f738a87")	ObjectId
name	Utsav	String
period	Even semester	String
duration	3 days	String
desc	Various events, competitions and DJ night.	String
no_classes	true	Boolean
location	Whole college	String
▼ (3) ObjectId("5f69c651b87c301f6f738a88")	{ 7 fields }	Object
_id	ObjectId("5f69c651b87c301f6f738a88")	ObjectId
name	Phase Shift	String
period	Odd Semester	String
duration	2 days	String
desc	Technical fest with lot of technical competitions, worksho...	String
no_classes	true	Boolean
location	Whole college	String
▼ (4) ObjectId("5f69c651b87c301f6f738a89")	{ 7 fields }	Object
_id	ObjectId("5f69c651b87c301f6f738a89")	ObjectId