

Lab 1

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Subject: - BDA Lab

I) College Database

Collections 1) Student 2) Faculty 3) COE
4) Library 5) Admission

1) Use college

Creation of colleges

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

```
db.createCollection("Faculty");  
{ "ok" : 1 }
```

```
db.createCollection("COE");  
{ "ok" : 1 }
```

```
db.createCollection("Library");  
{ "ok" : 1 }
```

```
db.createCollection("Admission");  
{ "ok" : 1 }
```

```
db.createCollection("Festival");  
{ "ok" : 1 }
```

2) Insertion in Student

```
db.Student.insert({id:1, studName:"viru",  
USN:"IBM17CS125", email:"vh@gmail.com",  
sem:7, cgpa:9.5});
```

```
db.Student.insert({id:2, studName:"anu",  
USN:"IBM17CS000", email:"an@gmail.com",  
sem:7, cgpa:8});
```

```
db.Student.insert({id:3, studName:"abhi",  
USN:"IBM17CS001", email:"ab@gmail.com",  
sem:7, cgpa:9});
```

3) Insertion in Faculty

```
db.Faculty.insert({_id:1, FName:"Ab", Dept:"CSE",  
email:"ab@gmail.com", Sem:3, Subj:"BDA"});
```

```
db.Faculty.insert({_id:2, FName:"cd", Dept:"CSE",  
email:"cd@gmail.com", Sem:5, Subj:"IoT"});
```

```
db.Faculty.insert({_id:3, FName:"ef", Dept:"CSE",  
email:"ef@gmail.com", Sem:7, Subj:"GOC"});
```

4) Insertion in COE

```
db.COE.insert({_id:1, FName:"xy", Dept:"CSE",  
email:"xy@gmail.com", DOB:"15/6/1970", LName:"L"});
```

```
db.COE.insert({_id:2, FName:"tu", Dept:"ISE",  
email:"tu@gmail.com", DOB:"13/2/1980", LName:"B"});
```

```
db.COE.insert({_id:3, FName:"kl", Dept:"ML",  
email:"kl@gmail.com", DOB:"15/3/1990", LName:"K"});
```

5) Insertion in Admission

```
db.Admission.insert({_id:1, FName:"Ab", LName:"C",  
type:"KCE", Place:"Hyd", PUC:"97"});
```

```
db.Admission.insert({_id:2, FName:"cd", LName:"K",  
type:"Contedk", Place:"Bnglr", PUC:"94"});
```

```
db.Admission.insert({_id:3, FName:"EF", LName:"L",  
type:"KCE", Place:"Delhi", PUC:"96"});
```

6) Insertion in Festival

```
db.Festival.insert({_id:1, FName:"coding", Dept:"CSE",  
co-ordinator:"Ashwin", Date:"15/6/2020", Place:"C101"});
```

```
db.Festival.insert({_id:2, FName:"exam", Dept:"CSE",  
co-ordinator:"Aroga", Date:"20/7/2020", Place:"C102"});
```

```
db.Festival.insert({_id:3, FName:"game", Dept:"ISE",  
co-ordinator:"Aroem", Date:"21/8/2019", Place:"C103"});
```

Queries

- 1) db.Faculty.find ({ Fname: "ab" });
- 2) db.Roe.find ({ Name: "cd" });
- 3) db.Student.find ({ StudName: "vishu" });

output

```
{ "_id": "1", "studname": "vishu", "Usn": "1BM17C122",  
  "email": "vishu@gmail.com", "sem": 7, "cyr": 1987 }
```