

Assignment - I

Q1) College Database.

- collections
- 1) Student
 - 2) Faculty
 - 3) COE
 - 4) Library
 - 5) Admission.

1) Creating Database.

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 :

1) db.Student.insert({_id:1, StudName:"Siya", USN:"IBM1803401",
Email:"siya@gmail.com", Sem:7, cgpa:9.3});

output : writeResult({"inserted":1})

2) db.Student.insert({_id:2, StudName:"Riya", USN:"IBM1803402",
Email:"Riya@gmail.com", Sem:7, cgpa:9.2});

3) db.Student.insert({_id:3, StudName:"Anya", USN:"IBM1803403",
Email:"anya@gmail.com", Sem:6, cgpa:8.8});

4) db.Student.insert({_id:4, StudName:"Isha", USN:"IBM1803404",
Email:"isha@gmail.com", Sem:5, cgpa:8.3});

3) Insertion in faculty :

1) db.Faculty.insert({_fid:1, fname:"Pallavi", Dept:"CSE",
Email:"pallavi@gmail.com", Sem:3, Subject:"SE"});

2) db.Faculty.insert({_fid:2, fname:"Mahalakshmi",
Dept:"CSE", Email:"mahalakshmi@gmail.com", Sem:5,
Subject:"IS"});

3) db.Faculty.insert({_fid:3, fname:"Latha", Dept:"CSE",
Email:"latha@gmail.com", Sem:7, Subject:"BDA"});

4) db.Faculty.insert({_fid:4, fname:"Lalita", Dept:"ECE",
Email:"lalita@gmail.com", Sem:5, Subject:"VLSI"});

3) Insertion in COE

- 1) db. COE. insert({-eid: 1, Name: "Vani", Dept: "CIE", Email: "vani@gmail.com", phNo: "8890634102", LName: "L3"});
- 2) db. COE. insert({-eid: 2, Name: "Deepa", Dept: "SEE", Email: "deepa@gmail.com", phNo: "9245621203", LName: "M3"});
- 3) db. COE. insert({-eid: 3, Name: "Nidhi", Dept: "CIE", Email: "nidhi@gmail.com", phNo: "721520811", LName: "S3"});
- 4) db. COE. insert({-eid: 4, Name: "Diya", Dept: "SEE", Email: "diya@gmail.com", phNo: "8425162841", LName: "L3"});

4) Insertion in Library

- 1) db. Library. insert({-lid=1, BookName: "Cprogramming", BookNum: "1", Author: "PERSON", Domain: "Programming", NoOfCopies: 5});
- 2) db. Library. insert({-lid=2, BookName: "operating system", BookNum: "2", Author: "Gavin", Domain: "CSE", NoOfCopies: 3});
- 3) db. Library. insert({-lid="Harry Potter", BookNum: "3", Author: "Jk Rowling", Domain: "stories", NoOfCopies: 6});
- 4) db. Library. insert({-lid=4, BookName: "Java", BookNum: "4", Author: "Smith", Domain: "CSE", NoOfCopies: 10});

5) Insertion in Admission :

- 1) db. Admission.insert(E - Aid:1, Fname: "Swarna", type: "CET", TenthPercent: "97", TwelvePercent: "98", PlaceFrom: "Kannada") ;
- 2) db. Admission.insert(E - Aid:2, Fname: "Madhura", type: "CET", TenthPercent: "89", TwelvePercent: "90", PlaceFrom: "Bangalore") ;
- 3) db. Admission.insert(E - Aid:3, Fname: "Ianya", type: "COMEDK", TenthPercent: "93", TwelvePercent: "96", PlaceFrom: "Gujarat") ;
- 4) db. Admission.insert(E - Aid:4, Fname: "Swarna", type: "COMEDK", TenthPercent: "97", TwelvePercent: "98", PlaceFrom: "Delhi") ;

c) Insertion in Festival :

- 1) db. Festival.insert(E - id:1, Ename: "Reverse_Coding", type: "Academic", dept: "CSE", Co-ordinator: "Swarna", phNo: "8251263945") ;
- 2) db. Festival.insert(E - id:2, Ename: "Treasure_Hunt", type: "Fun", dept: "CSE", Co-ordinator: "Riya", phNo: "8569260452") ;
- 3) db. Festival.insert(E - id:3, Ename: "Quiz", type: "Fun", dept: "CSE", Co-ordinator: "Sija", phNo: "9988765403") ;
- 4) db. Festival.insert(E - id:4, Ename: "Debate", type: "Academic", dept: "CSE", Co-ordinator: "Sija", phNo: "6345562812") ;

V Selection Queries :

1) db. student.find({studName: "Anya"});

Output :

```
{ "_id": 3, "studName": "Anya", "usn": "IBM18C000",  
  "Email": "anya@gmail.com", "Sem": 6, "cgpa": 8.8 }
```

2) db. Faculty.find({fName: "Jatha"});

3) db. COE.find({Name: "Deepa"});

4) db. Library.find({});

5) db. Admission.find({});

6) db. Festival.find({});