Abhishek Rungta
1BM17CS130
BDA LAB

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Q1 College Database collection

1) Student 2) Faculty 3) COE
4) Library 5) Admission
6) College Festival

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("Festival");
{ "ok" : 1 }
```

2) Insertion in student :

```
db.student.insert({_id:1, StudName:"Abhishek",
USN:"1BM17CS130", email:"abhishek.cs17@gmail.",
sem:7, cgpa:9.9});
```

Output : WriteResult ({ "Inserted" : 1 })

② db.Student.insert ({_id : 2, StudName : "Gaurav" USN : "1BM17CS131", email : "gaurav@gmail.com" Sem : 5, cgpa : 9.14 });

③ db.student.insert ({_id : 3, StudName : "Rahul", USN : "1BM17CS133", email : "Rahul@gmail.com", Sem : 7 Cgpa : 8.55 });

faculty

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

② db.Faculty.insert ({_fid : 3, fname : "Latha", Dept : "CSE" email : "Latha@gmail.com", Sem : 5, Subject : "OS" });

④ db.Faculty.insert ({ fid : 4, fname : Nandhini", Dept : "CSE" email : "nandhini@gmail.com, Subject : "CD" });

COE

1) db.COE.insert ({_eid : , Name : "Vani", Dept : "ise" email : "vani@gmail.com", phno : "8164447832", Lastname : "L" });

2) db.COE.insert ({_eid : 2, Name : "Deepa", Dept : "sse" email : "deepa@gmail.com", phno : "9964447832", Lastname "s" });

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Library:

1. db.library.insert({_id:1, BookName:"Sherlock Holmes", Booknum:"1", Author:"Conn Doyle", Domain:"Stories", no of Copies:'3'});
2. db.library.insert({_id:2, BookName:"operating System", Booknum:"2" Author:"Galvin", Domain:"Computer Science", noofCopies:5});
3. db.library.insert({_id:3, BookName:"Harry Potter", Booknum '3', Author:"JK Rowling" Domain:"Stories", no of Copies:'6'});

Admission:-

~~4. db.Admission.insert({_Aid, Fname:"Swara~~

1. db.Admission.insert({_Aid, Fname:"Ms Abhi", type:"Grade" tenthpercent:"97", twelthpercent:"98", placefrom":Ap"});
2. db.Admission.insert({_Aid:3, Fname:".Rohan", type:"Managment", tenthpercent:"80", twelthpercent:"98", placefrom"Gujrat"});

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Festival

(1). db.Festival.insert({_id:1, Ename:"FiFa", Etype:"Fun" dept:"CSE", Coordinator:"Sooraj", phonenum:"9845021334"});

(2) db.Festival.insert({_id:2, Ename:"Treasure Hunt Etype:"Fun" dept:"CSE", Coordinator:"Gaurav", phonenum:"9855021387"});

Selection Queries.

1) db.Student.find({StudName:"Abhishek"});

output:

{"_id":1 "studname":"Abhishek", "USN":"1BM17CS130", email:"abhishek.cs@gmail.com", Sem:7, "cgpa":9};

(2) db.Faculty.find({fname:"pallavi"});

(3) db.COE.find({~~fname~~ {Name:"Vani"});

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

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

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