

- Q1) College Database
Collections
- 1) Student
 - 2) Faculty
 - 3) COE
 - 4) Library
 - 5) Admission

1) Use college

creations 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: "Swarna",  
  USN: "IBMITCS060", email: "swarna@gmail.com", sem: 7, cgpa: 9.5 },  
  output: writeResult( { "inserted" : 1 } )
```

```
② db.student.insert( { _id: 2, StudName: "Madhuri",  
  USN: "IBMITCS061", email: "madhuri@gmail.com", sem: 5,  
  cgpa: 9.1 } );
```

③ db.student.insert({ _id: 3, Studname: "Chaitu",
usr: "IBM17CS062", email: "chaitu@gmail.com", sem: 4,
cgpa: 9.17 });

④ db.student.insert({ _id: 4, Studname: "Harika",
usr: "IBM17CS063", email: "harika@gmail.com", sem: 3,
cgpa: 9.13 });

Faculty

① db.Faculty.insert({ _fid: 1, Fname: "Pallavi", Dept: "CSE",
email: "pallavi@gmail.com", sem: 3, subject: "BDA" });

② db.Faculty.insert({ _fid: 2, Fname: "Mahalakshmi", Dept: "ISE",
email: "mahalakshmi@gmail.com", sem: 3, subject: "IS" });

③ db.Faculty.insert({ _fid: 3, Fname: "Latha", Dept: "CSE",
email: "latha@gmail.com", sem: 5, subject: "OS" });

④ db.Faculty.insert({ _fid: 4, Fname: "Nardhini", Dept: "CSE",
email: "nardhini@gmail.com", sem: 7, subject: "CN" });

COE

db.insert.

- ① db.coe.insert({_eid: 1, Name: "Vani", Dept: "cie", email: "vani@gmail.com", phno: "8169447832", Lastname: "L"},);
- ② db.coe.insert({_eid: 2, Name: "Deepa", Dept: "see", email: "deepa@gmail.com", phno: "9969447832", Lastname: "S"},);
- ③ db.coe.insert({_eid: 3, Name: "Nidhi", Dept: "see", email: "nidhi@gmail.com", phno: "886957832", Lastname: "K"},);
- ④ db.coe.insert({_eid: 4, Name: "Kumar", Dept: "backlog", email: "kumar@gmail.com", phno: "6669447832", Lastname: "V"},);

Library

- ① db.library.insert({_id: 1, BookName: "Sherlock Holmes", BookNum: "1", Author: "Caren Doyle", Domain: "Stories", noofcopies: '3'});
- ② db.library.insert({_id: 2, BookName: "Operating Systems", 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", noofcopies: '6'});
- ④ db.library.insert({_id: 4, BookName: "The Complete Reference Java", BookNum: "4", Author: "Smith", Domain: "CS", noofcopies: 10});

Admission

- ① db.Admission.insert { (-Aid:1, Frame: "Swarna", type: "comedk", tenthpercent: "97", twelfthpercent: "98", placefrom: "Apl");
- ② db.Admission.insert { (-Aid:2, Frame: "Madhuri", type: "cet", tenthpercent: "89", twelfthpercent: "90", placefrom: "Hyd");
- ③ db.Admission.insert { (-Aid:3, Frame: "Kavya", type: "Management", tenthpercent: "90", twelfthpercent: "95", placefrom: "Karnataka");
- ④ db.Admission.insert { (-Aid:4, Frame: "Pranathi", type: "comedk", tenthpercent: "93", twelfthpercent: "96", placefrom: "Gujarath");

Festival

- ① db.Festival.insert { (f_id:1, Ename: "Reverse Coding", Etype: "Academic", dept: "CSE", coordinator: "Swarna", phonenumber: "7893434678");
- ② db.Festival.insert { (f_id:2, Ename: "Treasure Hunt", Etype: "fun", dept: "CSE", coordinator: "Sanyara", phonenumber: "8893634678");
- ③ db.Festival.insert { (f_id:3, Ename: "Quiz", Etype: "Knowledge", dept: "Math", coordinator: "Saumya", phonenumber: "6893634658");

④ db.festival.insert [{_id: 4, Name: "Lemon and Spoon",
Etype: "fun", dept: "Sports", coordinator: "Rachana",
phonenum: '6855634658'}]);

Selection queries

① db.Student.find({studName: "swarna"});

output

{ "_id": 1, "studname": "swarna", "usr": "IBM17CS060",
"email": "swarna@gmail.com", "sem": 7, "cgpa": 9.2 }

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

③ db.^{COE}~~student~~.find({Name: "Nidhi"});

④ db.^{Library}~~student~~.find({});

⑤ db.^{Admission}~~student~~.find({});

⑥ db.festival.find({});