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Subject : BDA Lab.

1) Create company database with following collections.

   1) Employee

   2) Department -
   use company;
   db. createCollection("EmployeeDB");
   db. createCollection("EDepartment");

Perform following MongoDB operations.

1) Insert at least 5 documents.

   Employee

   1) db. EmployeeDB. insert({_id:1, Ename:"Siya", Esalary:"20000"
      phNo:"8450246712", Email:"siya@gmail.com"});

   2) db. EmployeeDB. insert({_id:2, Ename:"Riya", Esalary:"30,000"
      phNo:"9045673923", Email:"riya@gmail.com"});

   3) db. EmployeeDB. insert({_id:3, Ename:"Jiya", Esalary:"40000"
      phNo:"7459230123", Email:"jiya@gmail.com"});

   4) db. EmployeeDB. insert({_id:4, Ename:"Nandini", Esalary:
      "50,000", phNo:"6349123457", Email:"nandini@gmail.com"});

   5) db. EmployeeDB. insert({_id:5, Ename:"Arya", Esalary:"60000"
      phNo:"6349234610", Email:"arya@gmail.com"});

   Upsert

   db. EmployeeDB. update{_id:7, Ename:"Jiya", Esalary:"40000"
   phNo:"8629371829"}, {$set:{Email:"jiya123@gmail.com"}},
   {upsert: true});
   db. EmployeeDB. save({Ename:"Riya", phNo:"7624926182"}).

Department

1) db. EDepartment. insert({_id:1, Dno : "101", Dname:
   "Engineering", Enum :5});

2) db. EDepartment. insert({_id:2, Dno : "104", Dname:
   " Accounting", Enum :3});

3) db. EDepartment. insert({_id:3, Dno:"102", Dname:
   "purchasing", Enum :1});

4) db. EDepartment. insert({_id:4, Dno:"104", Dname:
   "Accounting", Enum : 3});

5) db. EDepartment. insert({_id:5, Dno:"103", Dname:
   "Marketting", Enum:1});

Upsert

db. EDepartment. update({ _id :8, Dno:"104", Enum: 5},
  { $set :{Dname : "Administration" }}, {upsert : true});
db. EDepartment. save ({Dname : "Administration",
  Dno:"104" }};

2) Update "Employee" collection to add new field.
   db. EmployeeDB. update({_id:5}, {$set:{Location :
     "Bangalore"}});

   db. EmployeeDB. find(). pretty();

3) Remove field from an existing document.

Employee

```
db . EmployeeDB. update ({ _id : 5 }, { $unset : { location :
    "Bangalore" }});

db . Employee DB. find().pretty();
```

Department

```
db. EDepartment . update ({ _id : 5 }, { $unset : { Location :
    "Bangalore" }});

db. Employee
db. EDepartment . find (_id : 5). pretty();
```

4) Select all documents from both collections.

```
db . EmployeeDB. find()-pretty();
db. EDepartment . find()- pretty();
```

5) select only employee name & department number
whose dept number falls between 1001 to 1005.

```
db. EmployeeDB. find ({id : { "$gte : 1001," "$1te": 1005}},
    {"Ename": 1, "Dno":1}). pretty();
```

                    or

```
db. EmployeeDB. find ({ }, {"Ename": 1, "Dno": 1},
    { Dno : {$in :[1001, 1005] }}). pretty();
```

6) Select employee documents whose name begin with 'A'.

db. EmployeeDB. find ({Ename: /^A/}).pretty();

4) Select employee documents whose age is greater than 30.

db. EmployeeDB. find ({age: { $gt: "30"}}).pretty();