

## BDA Lab-2

Create company database with following collections.

i) Employee

ii) Department

```
> use myCompanyDB;
```

```
> db.createCollection("Employee");
```

```
> db.createCollection("Department");
```

1) Inserting documents to collections :-

```
> db.Employee.insert({_id: 1, Name: "XYZ", Designation: "ABC",  
Salary: 10000, Age: 30, Dept_num: 1004});
```

```
> db.Employee.update({_id: 2, Name: "ABC", Designation: "PQR",  
Salary: 50000, Age: 35, Dept_num: 1005},  
{upsert: true});
```

```
> db.Employee.update({_id: 2, Name: "ABC"}, {$set: {deptnum: 1003},  
{upsert: false}});
```

```
> db.Employee.save({_id: 3, Name: "Avinash", Designation: "MNO",  
Salary: 40000, Age: 40, Dept_num: 1003});
```

2) Update Employee to add new field.

```
> db.Employee.update({}, {$set: {Location: "Mumbai"}},  
{multi: true});
```

3) Remove a field from an existing document.

```
> db.Employee.update ( { _id: 3 }, { $unset: { location: "Mumbai" } } );
```

4) Select all documents from both collections

```
> db.Employee.find ( { } )
```

```
> db.Department.find ( { } )
```

5) Select only employee name & dept. no. whose dept. num falls between 1001 to 1005.

```
> db.Employee.find ( { dept-num: { $in: [ 1002, 1003, 1004 ] } },  
    { Name: 1, dept-num: 1, -id: 0 } );
```

6) Select employee documents whose name begins with 'A'

```
> db.Employee.find ( { emp Name: /^A/ } );
```

7) Age > 30

```
> db.Employee.find ( { Age: { $gt 30 } } );
```