

BDA LAB-2

Q. Create company database with i) Employee & ii) Department collections.

Creating database :-

> use company

Creating collections :-

> db.createCollection("Employee")

> db.createCollection("Department")

1) Insert documents using 3 methods of insertion.

i) Using insert :-

> db.Employee.insert({_id:1, empName: "abc",
dept: "Software", deptno: 1001, mobile: "1234567",
email: "abc@gmail.com"});

ii) Using save :-

> db.Employee.save({_id:2, empName: "ghi",
dept: "Hardware", deptno: 1003, mobile: "124567",
email: "ghi@gmail.com"});

iii) Using update (upsert: true)

```
> db.Employee.update({_id: 3, empName: "kim", dept: "Hardware", deptno: 1004, email: "kim@gmail.com"},  
  {$set: {$mobile: "754321"}}, {upsert: true});
```

iv) Using update (upsert: false)

```
> db.Employee.update({_id: 2, empName: "gfi"},  
  {$set: {dept: "Software"}}, {upsert: false});  
Similarly for other collection.
```

2) Update Employee to add new field.

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

3) Remove a field from existing document.

```
> db.Employee.update({_id: 3}, {$unset: {email: "kim@gmail.com"}});
```

4) select all documents from both collections.

> db.employee.find({})

> db.department.find({}).

5) Employee name & dept no whose dept number falls between 1001 to 1005.

~~> db.employee.find({}, {set: {~~

> db.employee.find({deptno: {\$in: [1002, 1003, 1004]},
{empName: 1, deptno: 1, -id: 0});

6) select docs whose name begins with 'A'.

> db.employee.find({empName: /^A/});

7) Age > 30

> db.employee.find({Age: {\$gt 30}});