

LAB - 2

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1. Creating company database.

- > use company
- > db.createCollections("Employee")
- > db.createCollections("Department")

1. Inserting five documents in each collection

```
> db.Employee.insert([
  { _id: 1,
    Name: "Ram",
    Age: "30",
    Salary: "30000" },
  { _id: 2,
    Name: "Sita",
    Age: "35",
    Salary: "50000",
    DNo: "1002" },
  { _id: 3 }])
```

```
> db.Employee.update({ _id: 3,
  Name: "Raju",
  Age: "40" },
  { $set: { Salary: "55000" } },
  { upsert: true })
```

```
> db.Employee.update({ _id: 2,
  Name: "Sita", DNo: "1005",
  Age: "35" },
  { $set: { Salary: "52000" } },
  { upsert: false })
```

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```
> db.Employee.update({ _id: 4,
                        Name: "Rita",
                        Age: "34", },
                      { $set: { Salary: "50000" } },
                      { upsert: true });
```

```
> db.Employee.save({ _id: "5",
                     Name: "Reema",
                     Age: "25",
                     Salary: "30000"
                     })
```

```
> db.Employee.update({ _id: 4,
                       Name: "Rita",
                       Age: "34" },
                     { $set: { Salary: "50000" } },
                     { upsert: true });
```

→ Inserting in Department collection :

```
> db.Department.insert([ { _id: 1,
                           Name: "CSE",
                           Location: "New Bail",
                           NoOfCourses: "10",
                           NoOfFaculty: "25" },
                          { _id: 2,
                           Name: "HR"
```

```
> db.Department.insert([ { _id: 1,
                           Name: "HR",
                           NoOfEmp: "25",
                           DepartNo: "1005" },
                          { _id: 2,
                           Name: "Finance",
                           NoOfEmp: "30",
                           DepartNo: "1010" }
                          ]
```

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```
> db.Department.update({ _id: "3",  
    Name: "Accounting",  
    NoOfEmp: "30"},  
    { $set: { DepartNo: "1009" },  
    { upsert: true }  
    )
```

```
> db.Department.up save ( { _id: "4",  
    Name: "Technical",  
    NoOfEmp: "75",  
    DepartNo: "1752" } )
```

```
> db.Department.update ( { _id: "5",  
    Name: "Development",  
    NoOfEmp: "100"},  
    { $set: { DepartNo: "1111" },  
    { upsert: false }  
    )
```

```
> db.Department.update ( { _id: "6",  
    Name: "Testing",  
    NoOfEmp: "70"},  
    { $set: { DepartNo: "1222" },  
    { upsert: true }  
    )
```

2) Update Employee collection to add new field

```
> db.Employee.update ( { _id: 1, Name: "Ram" },  
    { $set: { "Address": "Bangalore" },  
    { upsert: true } )
```

3) Removing a field

```
> db.Employee.update ( { _id: 1, Name: "Ram" },  
    { $unset: { "Age": "30" },  
    { upsert: true }  
    )
```


4) Select all documents

> db.Employee.find({})

> db.Department.find({})

5) Select emp name and depart number whose department number is between 1001 to 1005

> db.Employee.find({ Name: true, DNo: true },
{ DNo: { \$gt: "1000",
\$lt: "1005" } })

6) Select employee document whose name start with A.

> db.Employee.find({ Name: { \$regex: "^A" } })

7) Select employee document whose age > 30.

> db.Employee.find({ "age": { \$gt: "30" } })

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