LAB 2 – 1BM17CS085

1. Create Company database with following collections

  1. Employee

  2. Department

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

Perform following MongoDB Operations

1. Insert at least five documents in each collection using all three methods of insertion. { Show update method using upsert set to true and set to false}

```
db.Employee.insert({id:1, Name:"aaa", age:30, dept_id:123})
db.Employee.update({id:2, Name:"bbb", age:31, dept_id:234},{$set:{Exp:2}},{upsert:true})
db.Employee.insert({id:3, Name:"ccc", age:27, dept_id:098})
db.Employee.insert({id:4, Name:"ddd", age:29, dept_id:456)
db.Employee.update({id:3}, {$set:{Exp:3}}, {upsert:false})

db.Department.insert({id:1, Name:"x", dept_id:123})
db.Department.update({id:2, Name:"y", dept_id:234}, {$set:{EmpStrength:30}},{upsert:true})
db.Department.insert({id:3, Name:"z", dept_id:345})
db.Department.insert({id:4, Name:"k", dept_id:456})
db.Department.update({id:3},{$set:{dept_id:098}}, {upsert:false})
```

2. Update "Employee" collection to add new field to an existing document.

```
db.Employee.update({age:{$gt :29}},{$set:{Hike:20000}},{multi:true})
```

3. Remove a field from an existing document.

```
db.Employee.update({Name:"bbb"},{ $unset: {"Exp": ""}})
```

4. Select all documents from both collections.

```
db.Employee.find()
db.Department.find()
```

5. Select only employee name and department number whose department number falls between 1001 to 1005

```
db.Employee.find({  dept_id :{$gt: 100, $lt: 400}}, {Name:1, dept_id:1}).pretty()
```

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

```
db.Employee.find({Name:/^a/}).pretty()
```

7. Select employee document s whose age is greater than 30

```
db.Employee.find({age : {$gt :29}}).pretty()
```