Lab 2 - 1BM17CS086

- 1. Create Company database with following collections
 - 1. Employee
- 2. Department

```
> use Company;
< 'switched to db Company'
> db.createCollection("Employee");
< { ok: 1 }
> db.createCollection("Department");
< { ok: 1 }</pre>
```

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}

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

```
> db.Employee.update({name: "Bob Marley"}, {$set: {age: 37}});

( { acknowledged: 1,
    insertedId: null,
    matchedCount: 1,
    modifiedCount: 1,
    upsertedCount: 0 }
```

3. Remove a field from an existing document

```
> db.Employee.update({name: "Bob Marley"}, {$unset: {age: 32}});

< { acknowledged: 1,
   insertedId: null,
   matchedCount: 1,
   modifiedCount: 1,
   upsertedCount: 0 }</pre>
```

4. Select all documents from both collections.

```
> db.Employee.find();
( { _id: ObjectID("5f75a090239deb0f9c8dbe66"),
   name: 'Michael Gibbs',
   age: 42,
   departmentNumber: 1431 }
 { id: ObjectID("5f75a0ab1525ba5afdf7a58d"),
   name: 'Clinton Baptista',
   age: 42,
   departmentNumber: 3512 }
 { id: ObjectID("5f75a0b2239deb0f9c8dbe67"),
   name: 'Nicoli Smith',
   age: 25,
   departmentNumber: 1431 }
 { id: ObjectID("5f75a0fb239deb0f9c8dbe68"),
   name: 'Andrew Johnson',
   departmentNumber: 1002 }
 { id: ObjectID("5f75a11a239deb0f9c8dbe69"),
   name: 'Allen Marx',
   age: 34,
   departmentNumber: 1003 }
 { id: ObjectID("5f75a219239deb0f9c8dbe6b"),
   name: 'Bob Marley',
   age: 37 }
```

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

```
> db.Employee.find({departmentNumber: {$gte: 1001, $1te: 1005}}, {name: 1, departmentNumber: 1});

< { _id: ObjectID("5f75a0fb239deb0f9c8dbe68"),
    name: 'Andrew Johnson',
    departmentNumber: 1002 }

{ _id: ObjectID("5f75a11a239deb0f9c8dbe69"),
    name: 'Allen Marx',
    departmentNumber: 1003 }

{ _id: ObjectID("5f75a219239deb0f9c8dbe6b"),
    name: 'Bob Marley',
    departmentNumber: 1003 }</pre>
```

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

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

< { _id: ObjectID("5f75a0fb239deb0f9c8dbe68"),
    name: 'Andrew Johnson',
    age: 36,
    departmentNumber: 1002 }

{ _id: ObjectID("5f75a11a239deb0f9c8dbe69"),
    name: 'Allen Marx',
    age: 34,
    departmentNumber: 1003 }</pre>
```

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

```
> db.Employee.find({age: {$gt: 30}});
( id: ObjectID("5f75a090239deb0f9c8dbe66"),
   age: 42,
  departmentNumber: 1431 }
 { id: ObjectID("5f75a0ab1525ba5afdf7a58d"),
  name: 'Clinton Baptista',
   age: 42,
   departmentNumber: 3512 }
 { _id: ObjectID("5f75a0fb239deb0f9c8dbe68"),
   name: 'Andrew Johnson',
   age: 36,
   departmentNumber: 1002 }
 { id: ObjectID("5f75a11a239deb0f9c8dbe69"),
   name: 'Allen Marx',
   age: 34,
   departmentNumber: 1003 }
 { id: ObjectID("5f75a219239deb0f9c8dbe6b"),
   name: 'Bob Marley',
   departmentNumber: 1003,
```