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BDA LAB
Batch - 2

1. Create Company database with following collections -

1. Employee
2. Department

Use Company

db

db.createCollection("Employee");

db.createCollection("Department");

2. 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

db.Employee.insert({_id: 1221, First_Name: "Anil", Last_Name: "Kumar", Salary: 15,000, department_id: 21});

db.Employee.update({_id: 1222, First_Name: "Rikha", Last_Name: "Sutra", Salary: 25,000, department_id: 22}, {\$set: {Gender: "F"}}, {upsert: true});

db.Employee.update({_id: 1222, First_Name: "Rikha", Last_Name: "Sutra", Gender: "F", department_id: 22}, {\$set: {Salary: 23,000}}, {upsert: false});

db.Department.insert({_id: 21, Dept_Name: "IT", Manager_Name: "Rikha Sutra"});

db.Department.insert({_id: 22, Dept_Name: "IT", Manager_Name: "Brajat"}, {upsert: false});

3. update "Employee" collection to add new field to an existing document.

```
db.Employee.update({'_id': 1221}, {'$set': {'gender': 'M'}};
```

4. Remove a field from an existing document.

```
db.Employee.remove({'department_id': 2, '$gt department_id': 3});
```

5. Select all documents from both collections ~~to add~~ -

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

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

query: - db.Employee.find({'First-Name':
~~Dept. number~~ {'\$in': [1001, 1002, 1003, 1004,
 '\$gt': 1000, '\$lt': 1005]}]).pretty();

7. Select employee documents who name begins with 'A'.

```
db.Employee.find({'First-Name': /^A/}).pretty();
```

8. Select employee document whose age is greater than 30.

```
find({'age': 30}); db.Employee.find({'Age': {'$gt': 30}}).pretty();
```