Q1.

- a) Create Database company and create a Collection with name employee
- b) Insert some documents to the collection with fields empid, name, salary and designation.
- c) Display all the employee details.
- d) Update salary of a particular employee.
- e) Add one more field department to the collection.
- f) Display the fields name, salary and designation for all the documents.
- g) Display the fields name, salary and designation for all the documents but exclude the field id.
- h) Display all employee details whose salary is greater than a specified value.

```
test> use company
switched to db company
company> db.employee.insertMany([
      { empid: 1, name: "Jaya", salary: 50000, designation: "Software Engineer" }, { empid: 2, name: "Smitha", salary: 60000, designation: "Project Manager" }
     { empid: 3, name: "Johnson", salary: 45000, designation: "QA Engineer" }
.. ])
 acknowledged: true,
 insertedIds: {
    '0': ObjectId("65588b1c090384f21571b43b"),
    '1': ObjectId("65588b1c090384f21571b43c"),
    '2': ObjectId("65588b1c090384f21571b43d")
ompany> db.employee.find()
    _id: ObjectId("65588b1c090384f21571b43b"),
    empid: 1,
   name: 'Jaya',
    salary: 50000,
designation: 'Software Engineer'
    _id: ObjectId("65588b1c090384f21571b43c"),
    empid: 2,
    name: 'Smitha',
    salary: 60000,
   designation: 'Project Manager'
    _id: ObjectId("65588b1c090384f21571b43d"),
    empid: 3,
   name: 'Johnson',
   salary: 45000,
designation: 'QA Engineer'
```

```
company> db.employee.updateOne({empid:1},{$set:{salary:55000}})
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
ompany> db.employee.updateMany({},{$set:{department:'IT'}})
 acknowledged: true,
 insertedId: null,
 matchedCount: 3,
 modifiedCount: 3,
 upsertedCount: 0
company> db.employee.find({},{_id:0,name:1,salary:1,designation:1})
 { name: 'Jaya', salary: 55000, designation: 'Software Engineer' },
 { name: 'Smitha', salary: 60000, designation: 'Project Manager'},
 { name: 'Johnson', salary: 45000, designation: 'QA Engineer' }
ompany> db.employee.find()
   id: ObjectId("65588b1c090384f21571b43b"),
   empid: 1,
   name: 'Jaya',
   salary: 55000,
   designation: 'Software Engineer',
   department: 'IT'
 },
    id: ObjectId("65588b1c090384f21571b43c"),
   empid: 2,
   name: 'Smitha',
   salary: 60000,
   designation: 'Project Manager',
   department: 'IT'
 },
{
   _id: ObjectId("65588b1c090384f21571b43d"),
   empid: 3,
   name: 'Johnson',
   salary: 45000,
designation: 'QA Engineer',
   department: 'IT'
```

Q2

a. Create a collection student with student-ID ,Name, batch(Science ,Commerce) ,age, student ,status (present/Absent)etc....

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```

b. Display the students details in descending order based on their age

```
lab8> db.Student1.find()
   _id: ObjectId("65589dd5a10db9bd8ee2cdba"),
    student-id': 1,
   Name: 'Johncy',
   Batch: 'Science',
   age: 20,
   student_status: 'present'
   _id: ObjectId("65589dd5a10db9bd8ee2cdbb"),
   Name: 'Jerin',
   Batch: 'Commerce',
   age: 21,
   student_status: 'absent'
   _id: ObjectId("65589dd5a10db9bd8ee2cdbc"),
    'student-id': 3,
   Name: 'Sreyan',
Batch: 'Science',
   age: 20,
   student status: 'absent'
   _id: ObjectId("65589dd5a10db9bd8ee2cdbd"),
    'student-id': 4,
   Name: 'Smitha',
Batch: 'Commerce',
   age: 20,
   student status: 'Present'
                                               mone
```

```
lab8> db.Student1.find().sort({age:-1})
    _id: ObjectId("65589dd5a10db9bd8ee2cdbb"),
    'student-id': 2,
   Name: 'Jerin',
   Batch: 'Commerce',
   age: 21,
   student status: 'absent'
    _id: ObjectId("65589dd5a10db9bd8ee2cdba"),
   Name: 'Johncy'
   Batch: 'Science',
   age: 20,
   student_status: 'present'
    _id: ObjectId("65589dd5a10db9bd8ee2cdbc"),
   'student-id': 3,
   Name: 'Sreyan',
   Batch: 'Science',
   age: 20,
   student status: 'absent'
 },
   _id: ObjectId("65589dd5a10db9bd8ee2cdbd"),
    student-id': 4,
   Name: 'Smitha',
   Batch: 'Commerce',
   age: 20,
   student_status: 'Present'
```

c. Change the batch-name science to science and technology

```
lab8> db.Student1.updateMany({Batch: 'Science'},{$set:{Batch: 'Science&Technology'}})
{
    acknowledged: true,
    insertedId: null,
    matchedCount: 2,
    modifiedCount: 2,
    upsertedCount: 0
}
```

d. Count the number of students who are present

```
lab8> db.Student1.count({student_status:"present"})
1
lab8> db.Student1.find().count({student_status:"present"})
4
```

e. Remove the status field

```
lab8> db.Student1.updateMany({},{$unset:{student_status:" "}})
{
   acknowledged: true,
   insertedId: null,
   matchedCount: 4,
   modifiedCount: 4,
   upsertedCount: 0
}
```

f. Remove all students from commerce batch