

Create patient table having name, age, gender, disease admitted date status(admitted, discharged)
table insert multiple patient record into patient collection

- 1) Update the status of patient Deepak to under observation
- 2) Find all the patient who were admitted after 2025/3/1
- 3) Use aggregation count the number of patient for each disease using \$group

```
1 db.patient.insertMany([
2   {
3     name: "Deepak",
4     age: 35,
5     gender: "Male",
6     disease: "Malaria",
7     admit_date: ("2025-04-01"),
8     status: "admitted"
9   },
10  {
11    name: "Anita",
12    age: 29,
13    gender: "Female",
14    disease: "Typhoid",
15    admit_date: ("2025-03-15"),
16    status: "admitted"
17  },
18  {
19    name: "Raj",
20    age: 42,
21    gender: "Male",
22    disease: "Malaria",
23    admit_date: ("2025-02-28"),
24    status: "discharged"
25  },
```

```

26  {
27    name: "Priya",
28    age: 30,
29    gender: "Female",
30    disease: "Dengue",
31    admit_date: ("2025-04-05"),
32    status : "admitted"
33  }
34  });
35  db.patient.find().pretty();
36  db.patient.updateOne(
37    { name: "Deepak" },
38    { $set: { status: "under observation" } }
39  );
40  db.patient.find().pretty();
41  db.patient.find({
42    admit_date: { $gt: ("2025-03-01") }
43  });
44  db.patient.find().pretty();
45  db.patient.aggregate([
46    {
47      $group: {
48        _id: "$disease",
49        count: { $sum: 1 }
50      }
51    }
52  ]);

```

Output:-

```

mycompiler_mongodb> ... ..
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('681c3fe2f22a03a8076b128c'),
    '1': ObjectId('681c3fe2f22a03a8076b128d'),
    '2': ObjectId('681c3fe2f22a03a8076b128e'),
    '3': ObjectId('681c3fe2f22a03a8076b128f')
  }
}
mycompiler_mongodb> [
  {
    _id: ObjectId('681c3fe2f22a03a8076b128c'),
    name: 'Deepak',
    age: 35,
    gender: 'Male',
    disease: 'Malaria',

```

```
    admit_date: '2025-04-01',
    status: 'admitted'
  },
  {
    _id: ObjectId('681c3fe2f22a03a8076b128d'),
    name: 'Anita',
    age: 29,
    gender: 'Female',
    disease: 'Typhoid',
    admit_date: '2025-03-15',
    status: 'admitted'
  },
  {
    _id: ObjectId('681c3fe2f22a03a8076b128e'),
    name: 'Raj',
    age: 42,
```

```
    {
      _id: ObjectId('681c3fe2f22a03a8076b128e'),
      name: 'Raj',
      age: 42,
      gender: 'Male',
      disease: 'Malaria',
      admit_date: '2025-02-28',
      status: 'discharged'
    },
    {
      _id: ObjectId('681c3fe2f22a03a8076b128f'),
      name: 'Priya',
      age: 30,
      gender: 'Female',
      disease: 'Dengue',
      admit_date: '2025-04-05',
      status: 'admitted'
    }
  }
```

```
mycompiler_mongodb> ... .. {
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
mycompiler_mongodb> [
  {
    _id: ObjectId('681c3fe2f22a03a8076b128c'),
    name: 'Deepak',
    age: 35,
    gender: 'Male',
    disease: 'Malaria',
    admit_date: '2025-04-01',
    status: 'under observation'
  },
  .
```

```
{
  _id: ObjectId('681c3fe2f22a03a8076b128d'),
  name: 'Anita',
  age: 29,
  gender: 'Female',
  disease: 'Typhoid',
  admit_date: '2025-03-15',
  status: 'admitted'
},
{
  _id: ObjectId('681c3fe2f22a03a8076b128e'),
  name: 'Raj',
  age: 42,
  gender: 'Male',
  disease: 'Malaria',
  admit_date: '2025-02-28',
  status: 'discharged'
},
.
```

```
{
  _id: ObjectId('681c3fe2f22a03a8076b128f'),
  name: 'Priya',
  age: 30,
  gender: 'Female',
  disease: 'Dengue',
  admit_date: '2025-04-05',
  status: 'admitted'
}
]
mycompiler_mongodb> ... ... [
  {
    _id: ObjectId('681c3fe2f22a03a8076b128c'),
    name: 'Deepak',
    age: 35,
    gender: 'Male',
    disease: 'Malaria',
    admit date: '2025-04-01',
```

```
{
  _id: ObjectId('681c3fe2f22a03a8076b128d'),
  name: 'Anita',
  age: 29,
  gender: 'Female',
  disease: 'Typhoid',
  admit_date: '2025-03-15',
  status: 'admitted'
},
{
  _id: ObjectId('681c3fe2f22a03a8076b128f'),
  name: 'Priya',
  age: 30,
  gender: 'Female',
  disease: 'Dengue',
  admit_date: '2025-04-05',
  status: 'admitted'
}
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```
mycompiler_mongodb> [
  {
    _id: ObjectId('681c3fe2f22a03a8076b128c'),
    name: 'Deepak',
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    _id: ObjectId('681c3fe2f22a03a8076b128d'),
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    age: 29,
    gender: 'Female',
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    status: 'admitted'
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```
{
  _id: ObjectId('681c3fe2f22a03a8076b128e'),
  name: 'Raj',
  age: 42,
  gender: 'Male',
  disease: 'Malaria',
  admit_date: '2025-02-28',
  status: 'discharged'
},
{
  _id: ObjectId('681c3fe2f22a03a8076b128f'),
  name: 'Priya',
  age: 30,
  gender: 'Female',
  disease: 'Dengue',
  admit_date: '2025-04-05',
  status: 'admitted'
```

```
nycompiler_mongodb> ... .. [
  { _id: 'Typhoid', count: 1 },
  { _id: 'Dengue', count: 1 },
  { _id: 'Malaria', count: 2 }
]
nycompiler_mongodb> [
  {
    _id: ObjectId('681c3fe2f22a03a8076b128c'),
    name: 'Deepak',
    age: 35,
    gender: 'Male',
    disease: 'Malaria',
    admit_date: '2025-04-01',
    status: 'under observation'
  },
  {
    _id: ObjectId('681c3fe2f22a03a8076b128d'),
```

```
{
  _id: ObjectId('681c3fe2f22a03a8076b128d'),
  name: 'Anita',
  age: 29,
  gender: 'Female',
  disease: 'Typhoid',
  admit_date: '2025-03-15',
  status: 'admitted'
},
{
  _id: ObjectId('681c3fe2f22a03a8076b128e'),
  name: 'Raj',
  age: 42,
  gender: 'Male',
  disease: 'Malaria',
  admit_date: '2025-02-28',
  status: 'discharged'
},
```

```
{
  _id: ObjectId('681c3fe2f22a03a8076b128f'),
  name: 'Priya',
  age: 30,
  gender: 'Female',
  disease: 'Dengue',
  admit_date: '2025-04-05',
  status: 'admitted'
}
]
mycompiler_mongodb>
mycompiler_mongodb>

[Execution complete with exit code 0]
```