User Collection:

```
> db.users.insertMany([
     "name": "Thiru",
     "email": "thiru@mail.com",
     "batch": "B17",
     "task_id": ObjectId(),
     "mentor_id": ObjectId(),
     "codekata": ObjectId(),
     "attendance": 80
   },
   {
     "name": "Arun",
     "email": "arun@mail.com",
     "batch": "B18",
     "task_id": ObjectId(),
     "mentor_id": ObjectId(),
     "codekata": ObjectId(),
     "attendance": 100
   },
   {
     "name": "Deepan",
     "email": "deepan@mail.com",
     "batch": "B19",
     "task_id": ObjectId(),
     "mentor_id": ObjectId(),
     "codekata": ObjectId(),
     "attendance": 100
   },
 1);
```

```
> db.users.find()
< {
   _id: ObjectId('67cd879635e99230677ed8d6'),
   name: 'Thiru',
   email: 'thiru@mail.com',
   batch: 'B17',
   task_id: ObjectId('67cd879635e99230677ed8cd'),
   mentor_id: ObjectId('67cd879635e99230677ed8ce'),
   codekata: ObjectId('67cd879635e99230677ed8cf'),
   attendance: 80
 }
   _id: ObjectId('67cd879635e99230677ed8d7'),
   name: 'Arun',
   email: 'arun@mail.com',
   batch: 'B18',
   task_id: ObjectId('67cd879635e99230677ed8d0'),
   mentor_id: ObjectId('67cd879635e99230677ed8d1'),
   codekata: ObjectId('67cd879635e99230677ed8d2'),
   attendance: 100
 }
   _id: ObjectId('67cd879635e99230677ed8d8'),
   name: 'Deepan',
   email: 'deepan@mail.com',
   batch: 'B19',
   task_id: ObjectId('67cd879635e99230677ed8d3'),
   mentor_id: ObjectId('67cd879635e99230677ed8d4'),
   codekata: ObjectId('67cd879635e99230677ed8d5'),
   attendance: 100
```

Codekata Collection:

```
    _id: ObjectId('67cd9c8835e99230677ed8d9'),
    user_id: ObjectId('67cd879635e99230677ed8d6'),
    solved: 60
}

{
    _id: ObjectId('67cd9c8835e99230677ed8da'),
    user_id: ObjectId('67cd879635e99230677ed8d7'),
    solved: 62
}

{
    _id: ObjectId('67cd9c8835e99230677ed8db'),
    user_id: ObjectId('67cd9c8835e99230677ed8db'),
    user_id: ObjectId('67cd879635e99230677ed8d8'),
    solved: 100
}
```

Attendance Collection:

```
    _id: ObjectId('67cd9d4635e99230677ed8dc'),
    user_id: ObjectId('67cd879635e99230677ed8d6'),
    date: 2020-10-11T00:00:00.000Z,
    status: 'Present'
}

{
    _id: ObjectId('67cd9d4635e99230677ed8dd'),
    user_id: ObjectId('67cd879635e99230677ed8d7'),
    date: 2020-10-11T00:00:00.000Z,
    status: 'Absent'
}

{
    _id: ObjectId('67cd9d4635e99230677ed8de'),
    user_id: ObjectId('67cd879635e99230677ed8de'),
    date: 2020-10-11T00:00:00.000Z,
    status: 'Present'
}
```

Topics Collections:

```
< {
   _id: ObjectId('67cd9e1335e99230677ed8df'),
   topic: 'HTML, CSS, JS',
   date: 2020-10-01T00:00:00.000Z
 }
 {
   _id: ObjectId('67cd9e1335e99230677ed8e0'),
   topic: 'React JS',
   date: 2020-11-08T00:00:00.000Z
 }
 {
   _id: ObjectId('67cd9e1335e99230677ed8e1'),
   topic: 'Database',
   date: 2020-12-15T00:00:00.000Z
 }
   _id: ObjectId('67cd9e1335e99230677ed8e2'),
   topic: 'Node JS',
   date: 2020-12-22T00:00:00.000Z
 }
```

Tasks Collections:

```
> db.tasks.insertMany([
   {
     task_id: ObjectId(),
     task_name: "HTML, CSS, and JS Task",
     date: ISODate("2020-10-01"),
     status: "Completed"
   },
   {
     task_id: ObjectId(),
     task_name: "Advance JS Task",
     date: ISODate("2020-10-10"),
     status: "Pending"
   },
     task_id: ObjectId(),
     task_name: "React Task",
     date: ISODate("2020-11-10"),
     status: "Pending"
   },
   {
     task_id: ObjectId(),
     task_name: "Database Task",
     date: ISODate("2020-12-17"),
     status: "Completed"
   },
     task_id: ObjectId(),
     task_name: "Node JS Task",
     date: ISODate("2020-12-24"),
     status: "Completed"
   }
 1);
```

```
> db.tasks.find()
< {
   _id: ObjectId('67cd9f7835e99230677ed8e8'),
   task_id: ObjectId('67cd9f7735e99230677ed8e3'),
   task_name: 'HTML, CSS, and JS Task',
   date: 2020-10-01T00:00:00.000Z,
   status: 'Completed'
 }
   _id: ObjectId('67cd9f7835e99230677ed8e9'),
   task_id: ObjectId('67cd9f7735e99230677ed8e4'),
   task_name: 'Advance JS Task',
   date: 2020-10-10T00:00:00.000Z,
   status: 'Pending'
 }
   _id: ObjectId('67cd9f7835e99230677ed8ea'),
   task_id: ObjectId('67cd9f7735e99230677ed8e5'),
   task_name: 'React Task',
   date: 2020-11-10T00:00:00.000Z,
   status: 'Pending'
 }
   _id: ObjectId('67cd9f7835e99230677ed8eb'),
   task_id: ObjectId('67cd9f7735e99230677ed8e6'),
   task_name: 'Database Task',
   date: 2020-12-17T00:00:00.000Z,
   status: 'Completed'
 }
   _id: ObjectId('67cd9f7835e99230677ed8ec'),
   task_id: ObjectId('67cd9f7735e99230677ed8e7'),
   task_name: 'Node JS Task',
   date: 2020-12-24T00:00:00.000Z,
   status: 'Completed'
```

Company Drives Collection

```
> db.company_drives.find()

{
    _id: ObjectId('67cda32535e99230677ed8ed'),
    comp_name: 'Guvi',
    drive_date: 2020-10-20T00:00:00.000Z,
    user_id: ObjectId('67cd879635e99230677ed8d6')
}

{
    _id: ObjectId('67cda32535e99230677ed8ee'),
    comp_name: 'Google',
    drive_date: 2020-11-15T00:00:00.000Z,
    user_id: ObjectId('67cd879635e99230677ed8d7')
}

{
    _id: ObjectId('67cda32535e99230677ed8ef'),
    comp_name: 'Microsoft',
    drive_date: 2020-12-10T00:00:00.000Z,
    user_id: ObjectId('67cd879635e99230677ed8d8')
}
```

Mentors Collection:

Mentees count added using updateOne and \$set method

1)Find all the topics and tasks which are thought in the month of October

```
> db.topics.aggregate([
     $match: {
       date: {
         $gte: new Date("2020-10-01T00:00:00.000Z"),
         $lte: new Date("2020-10-31T23:59:59.999Z")
   },
     $lookup: {
       from: "tasks",
       localField: "_id",
       foreignField: "topic_id",
       as: "tasks"
     }
 1);
< {
   _id: ObjectId('67cd9e1335e99230677ed8df'),
   topic: 'HTML, CSS, JS',
   date: 2020-10-01T00:00:00.000Z,
   tasks: []
```

2)Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020

```
> db.company_drives.find({
    drive_date: {
        $gte: ISODate("2020-10-15"),
        $lte: ISODate("2020-10-31")
    }
});

{
    _id: ObjectId('67cda32535e99230677ed8ed'),
        comp_name: 'Guvi',
        drive_date: 2020-10-20T00:00:00.000Z,
        user_id: ObjectId('67cd879635e99230677ed8d6')
}
```

3) Find all the company drives and students who are appeared for the placement.

```
> db.company_drives.aggregate([
     $lookup: {
       from: "users",
       localField: "user_id",
       foreignField: "_id",
       as: "candidates"
     $project: {
       _id: 0, comp_name: 1, drive_date: 1, candidates: 1
 1);
   comp_name: 'Guvi',
   drive_date: 2020-10-20T00:00:00.000Z,
   candidates: [
       _id: ObjectId('67cd879635e99230677ed8d6'),
       email: 'thiru@mail.com',
       task_id: ObjectId('67cd879635e99230677ed8cd'),
       mentor_id: ObjectId('67cd879635e99230677ed8ce'),
       codekata: ObjectId('67cd879635e99230677ed8cf'),
       attendance: 80
   comp_name: 'Google',
   drive_date: 2020-11-15T00:00:00.000Z,
```

4)Find the number of problems solved by the user in codekata

5) Find all the mentors with who has the mentee's count more than 15

```
> db.mentors.find({ mentees_count: { $gt: 15 } });

< {
    _id: ObjectId('67cda3f935e99230677ed8f0'),
    mentor_name: 'Thirupathy',
    mentees_count: 34
  }

try>
```

6)Find the number of users who are absent and task is not submitted between 15 oct-2020 and 31-oct-2020

Not resolved