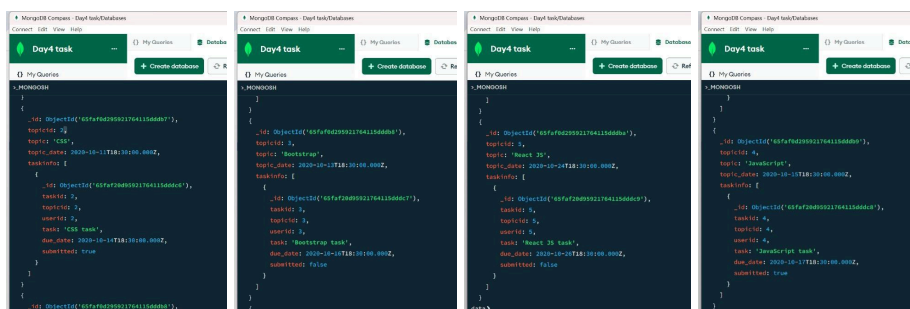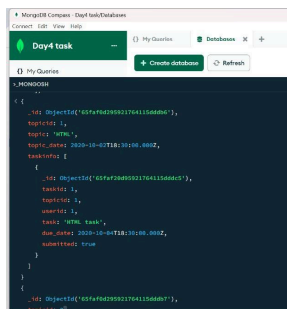# MONGODB TASK

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

<u>Answer:</u>
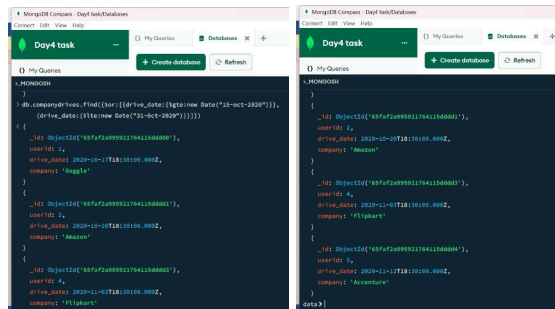
```
   db.topics.aggregate([
  {
     $lookup: {
         from: "tasks",
         localField: "topicid",
         foreignField: "topicid",
         as: "taskinfo"
        }
  },
  {
     $match:{$and:[{$or:[{topic_date:{$gt:new
Date("30-sep-2020")}},{topic_date:{$lt:new Date("1-nov-2020")}}]},

       {$or:[{"taskinfo.due_date":{$gt:new
Date("30-sep-2020")}},{"taskinfo.due_date":{$lt:new Date("1-nov-2020")}}]}]
     ]}
  }

   ])
```

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

Answer:

db.companydrives.find({$or:[{drive_date:{$gte:new Date("15-oct-2020")}},
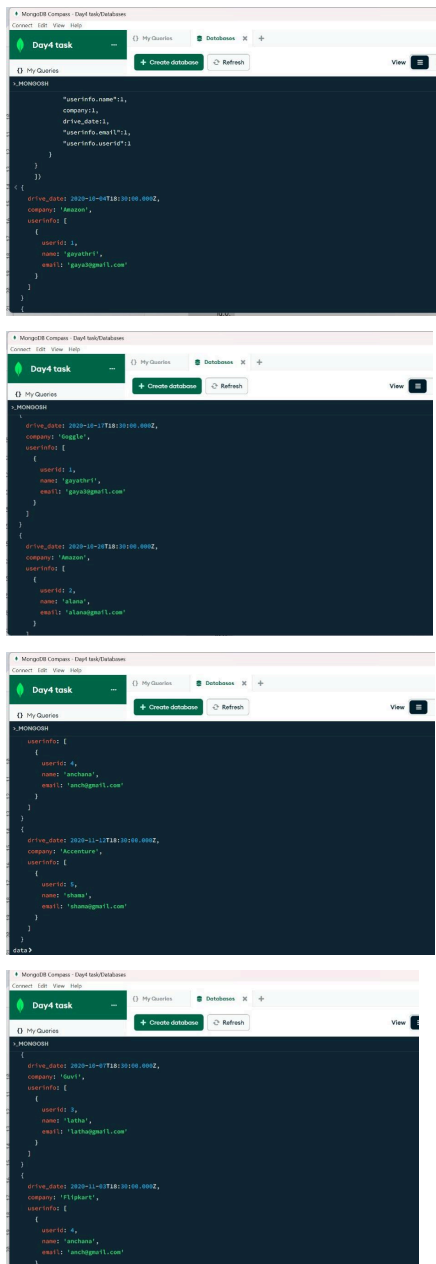{drive_date:{$lte:new Date("31-0ct-2020")}}]})

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

Answer:

```
db.companydrives.aggregate([
  {
    $lookup: {
        from:"users",
        localField:"userid",
        foreignField:"userid",
        as :"userinfo"
        }
  },
  {
    $project:{
        _id:0,
        "userinfo.name":1,
        company:1,
        drive_date:1,
        "userinfo.email":1,
        "userinfo.userid":1
```
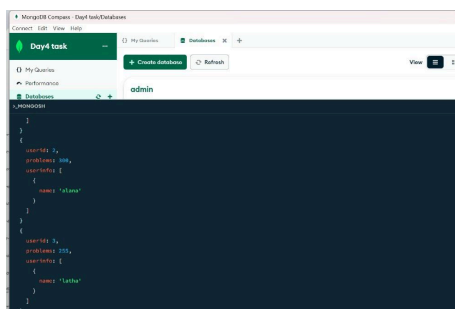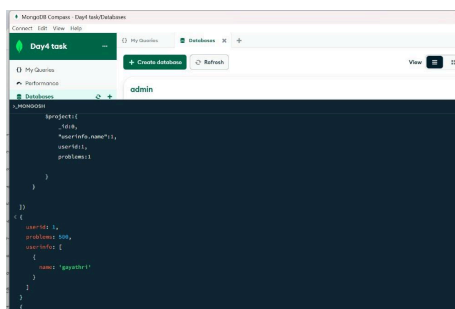
```
            }
        }
    ])
```



```
"userinfo.name":1,
company:1,
drive_date:1,
"userinfo.email":1,
"userinfo.userid":1
        }
    }
}])
{ {
drive_date: 2020-10-04T18:30:00.000Z,
company: 'Amazon',
userinfo: [
    {
        userid: 1,
        name: 'gayathri',
        email: 'gaya3@gmail.com'
    }
    ]
}
{
```



```
{
drive_date: 2020-10-17T18:30:00.000Z,
company: 'Goggle',
userinfo: [
    {
        userid: 1,
        name: 'gayathri',
        email: 'gaya3@gmail.com'
    }
    ]
}
{
drive_date: 2020-10-20T18:30:00.000Z,
company: 'Amazon',
userinfo: [
    {
        userid: 2,
        name: 'alana',
        email: 'alana@gmail.com'
    }
    ]
```



```
userinfo: [
    {
        userid: 4,
        name: 'anchana',
        email: 'anch@gmail.com'
    }
    ]
}
{
drive_date: 2020-11-12T18:30:00.000Z,
company: 'Accenture',
userinfo: [
    {
        userid: 5,
        name: 'shama',
        email: 'shama@gmail.com'
    }
    ]
}
data>
```



```
{
drive_date: 2020-10-07T18:30:00.000Z,
company: 'Guvi',
userinfo: [
    {
        userid: 3,
        name: 'latha',
        email: 'latha@gmail.com'
    }
    ]
}
{
drive_date: 2020-11-03T18:30:00.000Z,
company: 'Flipkart',
userinfo: [
    {
        userid: 4,
        name: 'anchana',
        email: 'anch@gmail.com'
    }
```
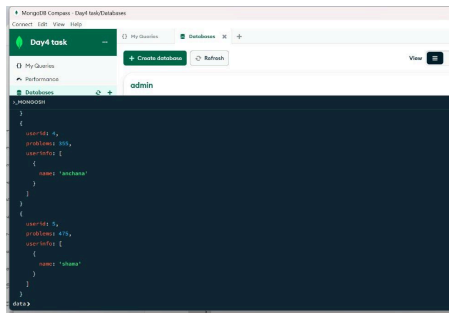
4. Find the number of problems solved by the user in codekata

<u>Answer:</u>

```
db.codekata.aggregate([
  {
    $lookup:{
       from:"users",
       localField:"userid",
       foreignField:"userid",
       as:"userinfo"
    }
  },
  {
    $project:{
       _id:0,
       "userinfo.name":1,
       userid:1,
       problems:1

    }
  }

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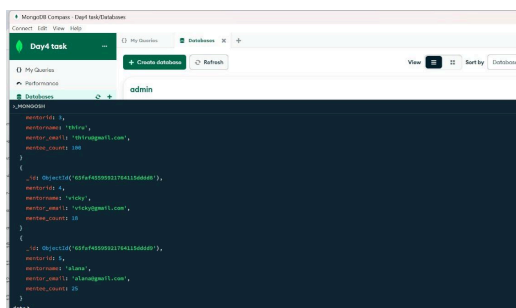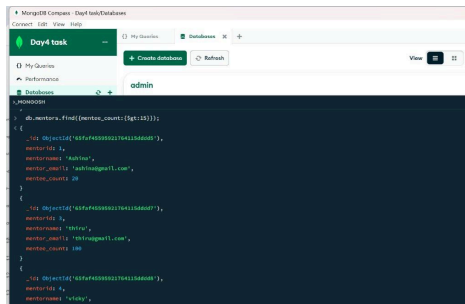
5. Find all the mentors with who has the mentee's count more than 15

<u>Answer:</u>

db.mentors.find({mentee_count:{$gt:15}});

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

<u>Answer:</u>

```
db.attendance.aggregate([
    {$lookup: {
        from: "topics",
        localField: "topicid",
```

```
      foreignField: "topicid",
      as: "topics"
}},
{
    $lookup: {
        from: "tasks",
        localField: "topicid",
        foreignField: "topicid",
        as: "tasks"
    }
},
{$match:{$and:[{attended:false},{"tasks.submitted":false}]}},
{$match:{$and:[{$or:[{"topics.topic_date":{$gte:new
Date("15-oct-2020")}},{"topics.topic_date":{$lte:new Date("31-oct-2020")}}]},
    {$or:[{"tasks.due_date":{$gte:new
Date("15-oct-2020")}},{"tasks.due_date":{$lte:new Date("31-oct-2020")}}]}
    ]}},
{
    $count: "No_of_students_absent"
}

])
```