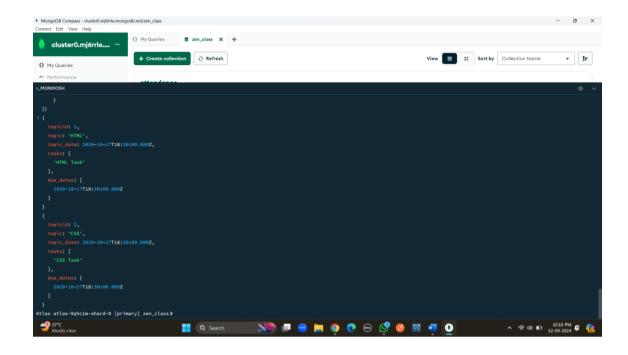
Task Solutions

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

```
db.topics.aggregate([
    $lookup: {
      from: "tasks",
      localField: "topicid",
      foreignField: "topicid",
      as: "taskinfo"
    $match: {
      $and: [
        { topic_date: { $gte: new Date("2020-10-01"), $lt: new Date("2020-11-01") } },
          $or: [
             { "taskinfo.due_date": { $gte: new Date("2020-10-01"), $lt: new Date("2020-11-01") } },
             { "taskinfo.due_date": { $exists: false } }
    $project: {
      _id: 0,
      topicid: 1,
      topic: 1,
      topic_date: 1,
      tasks: "$taskinfo.task",
      due_dates: "$taskinfo.due_date"
```



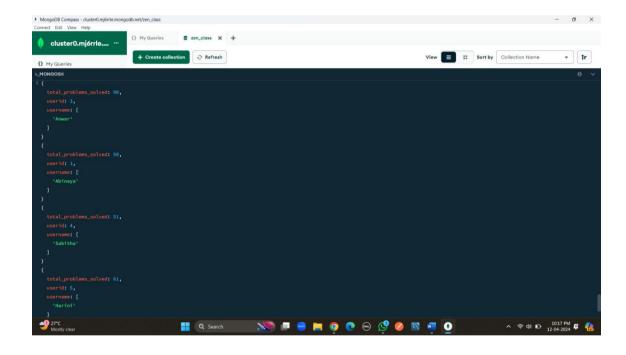
2. Find all the company drives which appeared between 15 oct-2020 and 31-oct-2020.

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

```
}
}])
```

```
| Morpoli Compass - Custor Information Annual Prince | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 1900 | 19
```

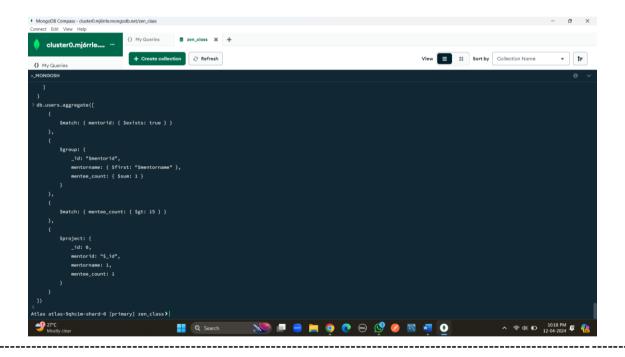
4. Find the number of problems solved by the user in codekata.



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

```
db.users.aggregate([
{
```

```
$match: { mentorid: { $exists: true } }
},
{
    $group: {
        _id: "$mentorid",
        mentorname: { $first: "$mentorname" },
        mentee_count: { $sum: 1 }
    }
},
{
    $match: { mentee_count: { $gt: 15 } }
},
{
    $project: {
        _id: 0,
        mentorid: "$_id",
        mentorname: 1,
        mentee_count: 1
    }
}
```



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

QUERY:

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

OUTPUT:

