Zen Class Model

Task:

Design database for Zen class programme

Users

Codekata

Attendance

Topics

Tasks

company_drives

Mentors

Queries:

- 1. Find all the topics and tasks which are thought in the month of October
- 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.
- 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.
- 6. Find the number of users who are absent and task is not submitted between 15 oct-2020 and 31-oct-2020

Database: zenclassmodel

Collections:

Users:

```
[

"_id": ObjectId ("614d76a11e0a6864e1d41f18"),

"id": 1,

"studentName": "Student 1",

"email": "student1@gmail.com",

"password": "hashedpassword",

"batch": "B25g",
```

```
"portfolio": "student1.com",
"codekata": [
  {
    "topicId": ObjectId("614d6e1c1e0a6864e1d41f0d"),
    "questionId": "1",
    "userOutput": [
       "line1",
       "line2"
    ]
  },
    "topicId": ObjectId("614d6e1c1e0a6864e1d41f0d"),
    "questionId": "2",
    "userOutput": [
       "line1",
       "line2"
    1
  },
    "topicId": ObjectId("614d6e1c1e0a6864e1d41f0e"),
    "questionId": "1",
    "userOutput": [
       "line1",
       "line2"
    ]
  }
],
"codekataSolvedCount": 3,
"tasks": [
  {
```

```
"taskId": ObjectId("614d6aa71e0a6864e1d41ef9"),
      "sourceCodeUrl": "github.com/student1/task-1",
      "deployedUrl": "task1.netlify.app",
      "submittedOn": ISODate("2020-10-01T00:00:00.000Z")
    },
      "taskId": ObjectId("614d6aa71e0a6864e1d41efa"),
      "sourceCodeUrl": "github.com/student1/task-2",
      "deployedUrl": "task2.netlify.app",
      "submittedOn": ISODate("2020-10-16T00:00:00.000Z")
    },
      "taskId": ObjectId("614d6aa71e0a6864e1d41efb"),
      "sourceCodeUrl": "github.com/student1/task-3",
      "deployedUrl": "task3.netlify.app",
      "submittedOn": ISODate("2020-10-20T00:00:00.000Z")
    },
      "taskId": ObjectId("614d6aa71e0a6864e1d41efc"),
      "sourceCodeUrl": "github.com/student1/task-4",
      "deployedUrl": "task4.netlify.app",
      "submittedOn": ISODate("2020-10-25T00:00:00.000Z")
    }
  ]
},
  "_id": ObjectId("614d76a11e0a6864e1d41f19"),
  "id": 2,
  "studentName": "Student 2",
  "email": "student2@gmail.com",
```

```
"password": "hashedpassword",
"batch": "B25g",
"portfolio": "student2.com",
"codekata": [
    "topicId": ObjectId("614d6e1c1e0a6864e1d41f0d"),
    "questionId": "1",
    "userOutput": [
       "line1",
       "line2"
    ]
  },
    "topicId": ObjectId("614d6e1c1e0a6864e1d41f0d"),
    "questionId": "2",
    "userOutput": [
       "line1",
       "line2"
    ]
  }
],
"codekataSolvedCount": 2,
"tasks": [
    "taskId": ObjectId("614d6aa71e0a6864e1d41ef9"),
    "sourceCodeUrl": "github.com/student2/task-1",
    "deployedUrl": "task1.netlify.app",
    "submittedOn": ISODate("2020-10-10T00:00:00.000Z")
  },
```

```
"taskId": ObjectId("614d6aa71e0a6864e1d41efa"),
       "sourceCodeUrl": "github.com/student2/task-2",
       "deployedUrl": "task2.netlify.app",
       "submittedOn": ISODate("2020-10-20T00:00:00.000Z")
    },
    {
       "taskId": ObjectId("614d6aa71e0a6864e1d41efc"),
       "sourceCodeUrl": "github.com/student2/task-3",
       "deployedUrl": "task3.netlify.app",
       "submittedOn": ISODate("2020-10-28T00:00:00.000Z")
    }
  ]
},
  "_id": ObjectId("614d76a11e0a6864e1d41f1a"),
  "id": 3,
  "studentName": "Student 3",
  "email": "student3@gmail.com",
  "password": "hashedpassword",
  "batch": "B25g",
  "portfolio": "student3.com",
  "codekata": [
       "topicId": ObjectId("614d6e1c1e0a6864e1d41f0d"),
       "questionId": "1",
       "userOutput": [
         "line1",
         "line2"
      ]
    }
```

```
],
  "codekataSolvedCount": 1,
  "tasks": [
    {
      "taskId": ObjectId("614d6aa71e0a6864e1d41ef9"),
       "sourceCodeUrl": "github.com/student3/task-1",
       "deployedUrl": "task1.netlify.app",
       "submittedOn": ISODate("2020-10-13T00:00:00.000Z")
    }
  ]
},
  "_id": ObjectId("614d76a11e0a6864e1d41f1b"),
  "id": 4,
  "studentName": "Student 4",
  "email": "student4@gmail.com",
  "password": "hashedpassword",
  "batch": "B25g",
  "portfolio": "student4.com",
  "codekata": [
    {
       "topicId": ObjectId("614d6e1c1e0a6864e1d41f0d"),
       "questionId": "1",
       "userOutput": [
         "line1",
         "line2"
      ]
    },
      "topicId": ObjectId("614d6e1c1e0a6864e1d41f0d"),
```

```
"questionId": "2",
    "userOutput": [
       "line1",
       "line2"
    ]
  },
    "topicId": ObjectId("614d6e1c1e0a6864e1d41f0e"),
    "questionId": "1",
    "userOutput": [
       "line1",
       "line2"
    ]
  }
],
"codekataSolvedCount": 3,
"tasks": [
    "taskId": ObjectId("614d6aa71e0a6864e1d41efa"),
    "sourceCodeUrl": "github.com/student4/task-1",
    "deployedUrl": "task1.netlify.app",
    "submittedOn": ISODate("2020-10-18T00:00:00.000Z")
  },
    "taskId": ObjectId("614d6aa71e0a6864e1d41efb"),
    "sourceCodeUrl": "github.com/student4/task-2",
    "deployedUrl": "task2.netlify.app",
    "submittedOn": ISODate("2020-10-25T00:00:00.000Z")
  },
```

```
"taskId": ObjectId("614d6aa71e0a6864e1d41efc"),
          "sourceCodeUrl": "github.com/student4/task-3",
          "deployedUrl": "task3.netlify.app",
          "submittedOn": ISODate("2020-10-28T00:00:00.000Z")
       }
    ]
  }
]
Codekata:
"_id": ObjectId("614d6e1c1e0a6864e1d41f0d"),
     "id": 1,
     "title": "Input/Output",
     "questions": [
          "questionId": 1,
          "question": "question-1",
          "inputDescription": "input description of question 1",
          "outputDescription": "Output description of question 1",
          "sampleInput": "sample input for question 1",
          "sampleOutput": "sample output for question 1"
       },
          "questionId": 2,
          "question": "question-2",
          "inputDescription": "input description of question 2",
          "outputDescription": "Output description of question 2",
          "sampleInput": "sample input for question 2",
          "sampleOutput": "sample output for question 2"
```

```
},
    {
       "questionId": 3,
       "question": "question-3",
       "inputDescription": "input description of question 3",
       "outputDescription": "Output description of question 3",
       "sampleInput": "sample input for question 3",
       "sampleOutput": "sample output for question 3"
    }
  ]
},
  "_id": ObjectId("614d6e1c1e0a6864e1d41f0e"),
  "id": 2,
  "title": "Arrays",
  "questions": [
       "questionId": 1,
       "question": "question-1",
       "inputDescription": "input description of question 1",
       "outputDescription": "Output description of question 1",
       "sampleInput": "sample input for question 1",
       "sampleOutput": "sample output for question 1"
    },
       "questionId": 2,
       "question": "question-2",
       "inputDescription": "input description of question 2",
       "outputDescription": "Output description of question 2",
       "sampleInput": "sample input for question 2",
```

```
"sampleOutput": "sample output for question 2"
    },
    {
       "questionId": 3,
       "question": "question-3",
       "inputDescription": "input description of question 3",
       "outputDescription": "Output description of question 3",
       "sampleInput": "sample input for question 3",
       "sampleOutput": "sample output for question 3"
  ]
},
  "_id": ObjectId("614d6e1c1e0a6864e1d41f0f"),
  "id": 3,
  "title": "Strings",
  "questions": [
       "questionId": 1,
       "question": "question-1",
       "inputDescription": "input description of question 1",
       "outputDescription": "Output description of question 1",
       "sampleInput": "sample input for question 1",
       "sampleOutput": "sample output for question 1"
    },
       "questionId": 2,
       "question": "question-2",
       "inputDescription": "input description of question 2",
       "outputDescription": "Output description of question 2",
```

```
"sampleInput": "sample input for question 2",
         "sampleOutput": "sample output for question 2"
       },
       {
         "questionId": 3,
         "question": "question-3",
         "inputDescription": "input description of question 3",
         "outputDescription": "Output description of question 3",
         "sampleInput": "sample input for question 3",
         "sampleOutput": "sample output for question 3"
    ]
  }
]
attendance:
[
     " id": ObjectId("614d7fc41e0a6864e1d41f28"),
     "id": 1,
     "batch": "B25-G",
     "classes": [
       {
         "id": 1,
         "date": ISODate("2020-09-28T00:00:00.000Z"),
         "sessionLink": "session-link",
         "recordingLink": "recording-link",
         "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
         "attendance": [
            ObjectId("614d76a11e0a6864e1d41f18"),
            ObjectId("614d76a11e0a6864e1d41f19"),
```

```
ObjectId("614d76a11e0a6864e1d41f1a"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f03"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41ef9")
},
{
  "id": 2,
  "date": ISODate("2020-10-01T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f04"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41efa")
},
  "id": 3,
  "date": ISODate("2020-10-02T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f1a"),
    ObjectId("614d76a11e0a6864e1d41f1b")
```

```
],
  "topicId": ObjectId("614d6c901e0a6864e1d41f05"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41efb")
},
  "id": 4,
  "date": ISODate("2020-10-05T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f06"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41efc")
},
  "id": 5,
  "date": ISODate("2020-10-08T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1a"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f07"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41efd")
```

```
},
  "id": 6,
  "date": ISODate("2020-10-12T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f1a"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f08"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41efe")
},
  "id": 7,
  "date": ISODate("2020-10-15T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f09"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41eff")
},
  "id": 8,
  "date": ISODate("2020-10-19T00:00:00.000Z"),
  "sessionLink": "session-link",
```

```
"recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f0a"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41f00")
},
{
  "id": 9,
  "date": ISODate("2020-10-21T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1a"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f0b"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41f01")
},
  "id": 10,
  "date": ISODate("2020-10-23T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
```

```
ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f0c"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41f02")
},
{
  "id": 11,
  "date": ISODate("2020-10-26T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f0c"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41f02")
},
  "id": 12,
  "date": ISODate("2020-10-28T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1a")
```

```
],
  "topicId": ObjectId("614d6c901e0a6864e1d41f0c"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41f02")
},
  "id": 13,
  "date": ISODate("2020-10-31T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f1b")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f0c"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41f02")
},
  "id": 14,
  "date": ISODate("2020-11-01T00:00:00.000Z"),
  "sessionLink": "session-link",
  "recordingLink": "recording-link",
  "mentorId": ObjectId("614d79421e0a6864e1d41f1c"),
  "attendance": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1a")
  ],
  "topicId": ObjectId("614d6c901e0a6864e1d41f0c"),
  "taskId": ObjectId("614d6aa71e0a6864e1d41f02")
```

```
}
     ]
  }
1
topics:
ſ
     "_id": ObjectId("614d6c901e0a6864e1d41f03"),
     "id": 1,
     "title": "session title-1",
     "contents": "session contents-1",
     "pre-read": "pre-read session topics-1"
  },
     "_id": ObjectId("614d6c901e0a6864e1d41f04"),
     "id": 2,
     "title": "session title-2",
     "contents": "session contents-2",
     "pre-read": "pre-read session topics-2"
  },
     "_id": ObjectId("614d6c901e0a6864e1d41f05"),
     "id": 3,
     "title": "session title-3",
     "contents": "session contents-3",
     "pre-read": "pre-read session topics-3"
  },
     "_id": ObjectId("614d6c901e0a6864e1d41f06"),
     "id": 4,
```

```
"title": "session title-4",
  "contents": "session contents-4",
  "pre-read": "pre-read session topics-4"
},
{
  "_id": ObjectId("614d6c901e0a6864e1d41f07"),
  "id": 5,
  "title": "session title-5",
  "contents": "session contents-5",
  "pre-read": "pre-read session topics-5"
},
  "_id": ObjectId("614d6c901e0a6864e1d41f08"),
  "id": 6,
  "title": "session title-6",
  "contents": "session contents-6",
  "pre-read": "pre-read session topics-6"
},
  "_id": ObjectId("614d6c901e0a6864e1d41f09"),
  "id": 7,
  "title": "session title-7",
  "contents": "session contents-7",
  "pre-read": "pre-read session topics-7"
},
  "_id": ObjectId("614d6c901e0a6864e1d41f0a"),
  "id": 8,
  "title": "session title-8",
  "contents": "session contents-8",
```

```
"pre-read": "pre-read session topics-8"
  },
  {
     "_id": ObjectId("614d6c901e0a6864e1d41f0b"),
     "id": 9,
     "title": "session title-9",
     "contents": "session contents-9",
     "pre-read": "pre-read session topics-9"
  },
     "_id": ObjectId("614d6c901e0a6864e1d41f0c"),
     "id": 10,
     "title": "session title-10",
     "contents": "session contents-10",
     "pre-read": "pre-read session topics-10"
  }
]
tasks:
{
     "_id": ObjectId("614d6aa71e0a6864e1d41ef9"),
     "id": 1,
     "taskName": "task-1",
     "taskDescription": "task-1 description",
     "taskLink": "http://tasklink.com"
  },
     "_id": ObjectId("614d6aa71e0a6864e1d41efa"),
     "id": 2,
     "taskName": "task-2",
```

```
"taskDescription": "task-2 description",
  "taskLink": "http://tasklink.com"
},
{
  "_id": ObjectId("614d6aa71e0a6864e1d41efb"),
  "id": 3,
  "taskName": "task-3",
  "taskDescription": "task-3 description",
  "taskLink": "http://tasklink.com"
},
  "_id": ObjectId("614d6aa71e0a6864e1d41efc"),
  "id": 4,
  "taskName": "task-4",
  "taskDescription": "task-4 description",
  "taskLink": "http://tasklink.com"
},
  "_id": ObjectId("614d6aa71e0a6864e1d41efd"),
  "id": 5,
  "taskName": "task-5",
  "taskDescription": "task-5 description",
  "taskLink": "http://tasklink.com"
},
  "_id": ObjectId("614d6aa71e0a6864e1d41efe"),
  "id": 6,
  "taskName": "task-6",
  "taskDescription": "task-6 description",
  "taskLink": "http://tasklink.com"
```

```
},
{
  "_id": ObjectId("614d6aa71e0a6864e1d41eff"),
  "id": 7,
  "taskName": "task-7",
  "taskDescription": "task-7 description",
  "taskLink": "http://tasklink.com"
},
{
  "_id": ObjectId("614d6aa71e0a6864e1d41f00"),
  "id": 8,
  "taskName": "task-8",
  "taskDescription": "task-8 description",
  "taskLink": "http://tasklink.com"
},
  "_id": ObjectId("614d6aa71e0a6864e1d41f01"),
  "id": 9,
  "taskName": "task-9",
  "taskDescription": "task-9 description",
  "taskLink": "http://tasklink.com"
},
  "_id": ObjectId("614d6aa71e0a6864e1d41f02"),
  "id": 10,
  "taskName": "task-10",
  "taskDescription": "task-10 description",
  "taskLink": "http://tasklink.com"
}
```

]

company_drives:

```
{
    "_id": ObjectId("614d7aa31e0a6864e1d41f21"),
    "id": 1,
    "companyName": "company 1",
    "date": ISODate("2020-10-14T00:00:00.000Z"),
    "studentsAttended": [
      ObjectId("614d76a11e0a6864e1d41f18"),
      ObjectId("614d76a11e0a6864e1d41f19"),
      ObjectId("614d76a11e0a6864e1d41f1a"),
      ObjectId("614d76a11e0a6864e1d41f1b")
    1
  },
    "_id": ObjectId("614d7aa31e0a6864e1d41f22"),
    "id": 2,
    "companyName": "company 2",
    "date": ISODate("2020-10-15T00:00:00.000Z"),
    "studentsAttended": [
      ObjectId("614d76a11e0a6864e1d41f19"),
      ObjectId("614d76a11e0a6864e1d41f1a"),
      ObjectId("614d76a11e0a6864e1d41f1b")
    ]
  },
    "_id": ObjectId("614d7aa31e0a6864e1d41f23"),
    "id": 3,
    "companyName": "company 3",
    "date": ISODate("2020-10-17T00:00:00.000Z"),
```

```
"studentsAttended": [
    ObjectId("614d76a11e0a6864e1d41f18"),
    ObjectId("614d76a11e0a6864e1d41f19"),
    ObjectId("614d76a11e0a6864e1d41f1a"),
  1
},
{
  "_id": ObjectId("614d7aa31e0a6864e1d41f24"),
  "id": 4,
  "companyName": "company 4",
  "date": ISODate("2020-10-19T00:00:00.000Z"),
  "studentsAttended": [
    ObjectId("614d76a11e0a6864e1d41f18"),
   ObjectId("614d76a11e0a6864e1d41f19")
  ]
},
  "_id": ObjectId("614d7aa31e0a6864e1d41f25"),
  "id": 5,
  "companyName": "company 5",
  "date": ISODate("2020-10-24T00:00:00.000Z"),
  "studentsAttended": [
    ObjectId("614d76a11e0a6864e1d41f19"),
   ObjectId("614d76a11e0a6864e1d41f1a"),
  ]
},
  "_id": ObjectId("614d7aa31e0a6864e1d41f26"),
  "id": 6,
  "companyName": "company 6",
```

```
"date": ISODate("2020-11-01T00:00:00.000Z"),
    "studentsAttended": [
       ObjectId("614d76a11e0a6864e1d41f18"),
      ObjectId("614d76a11e0a6864e1d41f19"),
      ObjectId("614d76a11e0a6864e1d41f1b")
    ]
  }
]
mentors:
"_id": ObjectId("614d79421e0a6864e1d41f1c"),
    "id": 1,
    "mentorName": "mentor-1",
    "email": "mentor1@gmail.com",
    "password": "hashedpassword",
    "menteesCount": 21
  },
    "\_id": ObjectId("614d79421e0a6864e1d41f1d"),\\
    "id": 2,
    "mentorName": "mentor-2",
    "email": "mentor2@gmail.com",
    "password": "hashedpassword",
    "menteesCount": 12
  },
    "_id": ObjectId("614d79421e0a6864e1d41f1e"),
    "id": 3,
```

```
"mentorName": "mentor-3",
    "email": "mentor3@gmail.com",
    "password": "hashedpassword",
    "menteesCount": 18
  },
  {
    "_id": ObjectId("614d79421e0a6864e1d41f1f"),
    "id": 4,
    "mentorName": "mentor-4",
    "email": "mentor4@gmail.com",
    "password": "hashedpassword",
    "menteesCount": 24
  },
    "_id": ObjectId("614d79421e0a6864e1d41f20"),
    "id": 5,
    "mentorName": "mentor-5",
    "email": "mentor5@gmail.com",
    "password": "hashedpassword",
    "menteesCount": 12
  }
]
```

Queries:

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

```
},
{
  $lookup: {
    from:"tasks",
    localField:"classes.taskId",
    foreignField:"_id",
     as:"tasks"
  }
},
  $lookup:{
    from:"topics",
    localField: "classes.topicId",
    foreignField: "id",
    as:"topics"
  }
},
  $unwind: "$classes"
},
  $unwind: "$tasks"
},
  $unwind: "$topics"
},
  $group : {
    _id: {
       month: { $month: "$classes.date" },
```

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

```
},
{
    $match: {
        "_id.day": {$gte: 15, $lte: 31},
        "_id.month": 10,
        "_id.year": 2020
    }
},
{
    $project: {
        _id: 1,
        companyName: 1
    }
}
```

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

```
$group: {
    __id: null,
    "students": {$addToSet: "$students.studentName" },
    "companyName": {$addToSet: "$companyName"}
}
},
{
    $project: {
    __id: 0,
        students: 1,
        companyName: 1
    }
}.pretty()
```

Find the number of problems solved by the user in codekata

```
\label{lem:db.users.find} $$ (\{_id: ObjectId("614d76a11e0a6864e1d41f18")\}, \{codekataSolvedCount: 1\}).pretty() $$
```

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

```
db.mentor.find ({menteesCount: {$gt: 15}},{mentorName: 1, menteesCount: 1}).pretty()
```

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

```
batch: "B25-G"
    }
  },
  {
    $unwind: "$classes"
  },
  {
    $lookup:{
       from: "users",
       localField: "classes.attendance",
       foreignField:"_id",
       as:"studentsAttendance"
    }
  },
    $unwind : "$studentsAttendance"
  },
    $match : {
       "classes.date" : {$gte : new ISODate("2020-10-15"),$lte : new ISODate("2020-10-
31")}
    }
  },
  {
    $group : {
       _id: {
         day : {$dayOfMonth : "$classes.date"},
         month : {$month : "$classes.date"},
         year : {$year : "$classes.date"},
       },
       studentsPresent: {
```