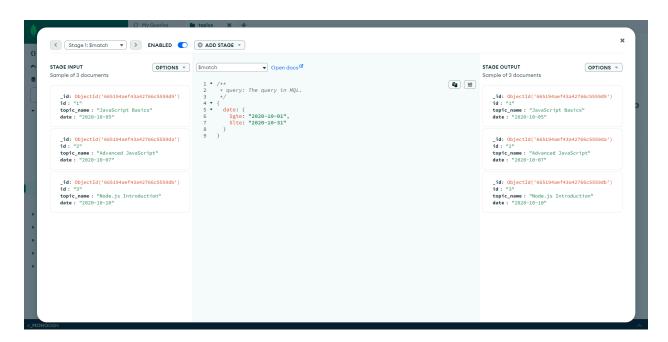
MongoDB Task - 2

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

MongoDB Compass:

Topics were taught in the month of October:



Tasks were given in the month of October

```
OPTIONS ▼ Smatch • Open docs ☑
 STAGE INPUT
                                                                                                                                                                                                                                                                                                             STAGE OUTPUT
                                                                                                                                                                                                                                                                                                                                                                                    OPTIONS *
      mple of 3 documents

id: 0bjectId('665Id79df43a42766c555a07')
id: "l"

user_id: "B'
description: "Create a basic calculator"
description: "Create a basic calculator
using HTML, CSS, and
JavaScript."

date: "2020-10-65"

8
}

glavaScript."

date: "2020-10-61",
8
}

glavaScript."

date: "2020-10-65"
                                                                                                                                                                                                                                                                                      4
                                                                                                                                                                                                                                                                                                                    _id: ObjectId('6651d79df43a42766c555a97')
id: "l"
user_id: "l"
task_name: "Build a Simple Calculator"
description: "Create a basic calculator
using HTML, CSS, and
JavaScript."
date: "2020-10-05"
date: "2020-10-10"
       date: "2020-10-05"
      uate: "2020-10-05"
due_date: "2020-10-10"
submitted: "yes"
topic_id: 1
                                                                                                                                                                                                                                                                                                                    uate: "2020-10-05"
due_date: "2020-10-10"
submitted: "yes"
topic_id: 1
                                                                                                                                                                                                                                                                                                                    _id: ObjectId('6651d79df43a42766c555a08')
id: "2"
user_id: "2"
       _id: ObjectId('6651d79df43a42766c555a08')
id: "2"
        1d: "2"
user_id: "2"
task_name: "W
      task_name: "Weather App"
description: "Develop a weather
application using APIs."
date: "2020-10-07"
                                                                                                                                                                                                                                                                                                                    task_name: "Weather App"
description: "Develop a weather
application using APIs."
date: "2020-10-07"
       aate: "2020-10-07"
due_date: "2020-10-16"
submitted: "yes"
topic_id: 2
                                                                                                                                                                                                                                                                                                                    due_date: "2020-10-07"
due_date: "2020-10-16"
submitted: "yes"
topic_id: 2
       _id: ObjectId('6651d79df43a42766c555a09')
id: "3"
                                                                                                                                                                                                                                                                                                                      _id: ObjectId('6651d79df43a42766c555a09')
id: "3"
      id: "3"
user_id: "3"
task_name: "Todo List"
description: "Implement a todo list with
CRUD operations."
date: "2020-10-10"
                                                                                                                                                                                                                                                                                                                    id: "3"
user_id: "3"
task_name: "Todo List"
description: "Implement a todo list with
CRUD operations."
date: "2020-10-10"
```

Shell:

Topics were taught in the month of October:

```
Guvi> db.topics.aggregate({$match:{date:{$gte:'2020-10-01', $$tte:'2020-10-31'}}})
[
{
    _id: ObjectId('665194aef43a42766c5559d9'),
    id: '1,
     topic_name: 'JavaScript Basics',
    date: '2020-10-05'
},
{
    _id: ObjectId('665194aef43a42766c5559da'),
    id: '2',
     topic_name: 'Advanced JavaScript',
    date: '2020-10-07'
},
{
    _id: ObjectId('665194aef43a42766c5559db'),
    id: '3',
     topic_name: 'Node.js Introduction',
    date: '2020-10-10'
}
Guvi> |
```

Tasks were given in the month of October

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

MongoDB Compass:



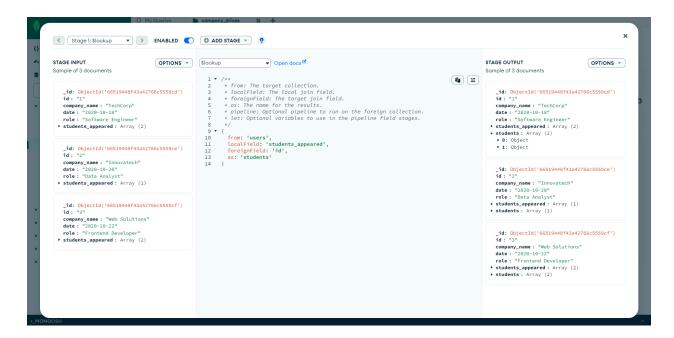
Shell:

```
Guvi> db.company_drives.aggregate({$match:{adte:{$gte:'2020-10-15', $lte:'2020-10-31'}}})
[
{
    _id: ObjectId('66519448f43a42766c5559cd'),
    id: '1,
     company_name: 'TechCorp',
    date: '2020-10-18',
    role: 'Software Engineer',
    students_appeared: [ 1, 2 ]
},
{
    _id: ObjectId('66519448f43a42766c5559ce'),
    id: '2',
    company_name: 'Innovatech',
    date: '2020-10-20',
    role: 'Oata Analyst',
    students_appeared: [ 1 ]
},
{
    id: ObjectId('66519448f43a42766c5559cf'),
    id: '3',
    company_name: 'Meb Solutions',
    date: '2220-10-22',
    role: 'Frontend Oaveloper',
    students_appeared: [ 1, 3 ]
},
Guvi> |
```

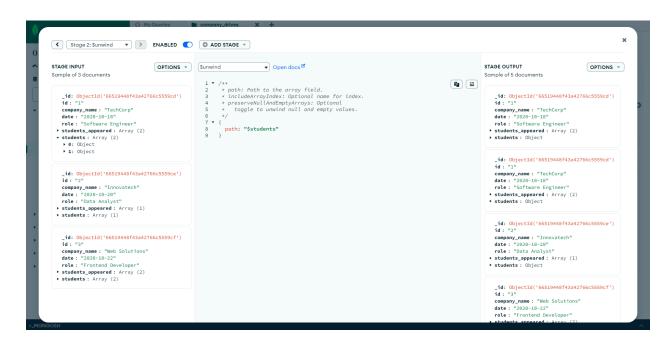
3. Find all the company drives and students who are appeared for the placement

MongoDB Compass:

Lookup stage:



Unwind:



Project:

```
OPTIONS ▼ Sproject ▼ Open docs ®
                                                                                                                                                                                                                                                                                                                                                                                                                                                       OPTIONS *
                                                                                                                                                                                                                                                                                                                                                                   STAGE OUTPUT
STAGE INPUT
                                                                                                                                                                                                                                                                                                                                                                    Sample of 5 documents
                                                                                                                    1 * /**

2 * specifications: The fields to

3 * include or exclude.

4 */

5 * {

6 __id:0,

7 __company_name: 1,

8 role: 1,

9 'students.name': 1,

10 'students.name': 1

11 }
                                                                                                                                                                                                                                                                                                                                                                       company_name: "TechCorp"
role: "Software Engineer"
v students: Object
name: "Alice"
email: "alice@example.com"
         _id: ObjectId('66519448f43a42766c5559cd')
id: "1"
   id: "1"
company_name: "TechCorp"
date: "2020-10-18"
role: "Software Engineer"
> students_appeared: Array (2)
> students_10
                                                                                                                                                                                                                                                                                                                                                                       company_name: "TechCorp"
role: "Software Engineer"
v students: Object
name: "Bob"
email: "bob@example.com"
   _id: ObjectId('66519448f43a42766c5559cd')
id: "1"
company_name: "TechCorp"
date: "2020-10-18"
role: "Software Engineer"
> students_appeared: Array (2)
> students_object
                                                                                                                                                                                                                                                                                                                                                                       company_name: "Innovatech"
role: "Data Analyst"
v students: Object
name: "Alice"
email: "alice@example.com"
   _id: ObjectId('66519448f43a42766c5559ce')
id: "2"
company_name: "Innovatech"
date: "2020-10-20"
role: "Data Analyst"
> students_appeared: Array (1)
> students_object
                                                                                                                                                                                                                                                                                                                                                                       company_name: "Web Solutions"
role: "Frontend Developer"

* students: Object
name: "Alice"
email: "alice@example.com"
        _id: ObjectId('66519448f43a42766c5559cf')
id: "3"
company_name: "Web Solutions"
date: "2020-10-22"
role: "Frontend Developer"
students_managed.ixec.u(2)
                                                                                                                                                                                                                                                                                                                                                                       company_name: "Web Solutions"
role: "Frontend Developer"

* students: Object
name: "Martin"
email: "martin@example.com"
```

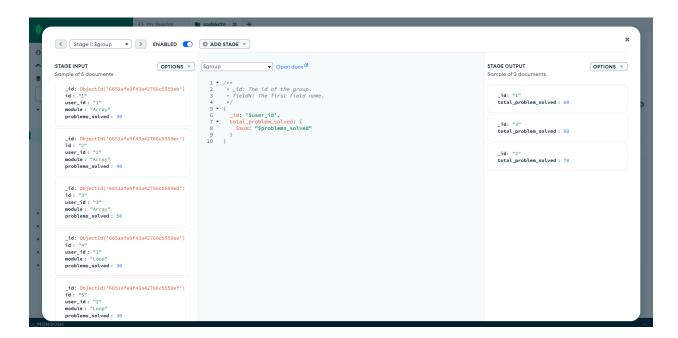
Shell:

```
downly db.company_drives.aggregate([$lookup:(from:"users", localField:"students_appeared", foreignField:"id", as:"students"]]])

{
    id: ObjectId('66519448f43342766c5559cd'),
    id: 1,
        role: 'Seffware Engineer',
    students.appeared[[1, 2],
    students.[
    id: ObjectId('665194cf43342766c559dd'),
    id: name: 'Allce',
        email: 'Allce'sample.com',
        email: Allce'sample.com',
        id: ObjectId('66519448f43a42766c5559ce'),
    id: 'ObjectId('66519448f43a42766c5559ce'),
    id: 'ObjectId('66519448f43a42766c5559ce'),
    id: 'ObjectId('6651944f43a42766c5559dd'),
    id: ObjectId('6651944f43a42766c5559dd'),
    id: ObjectId('665194cf458194cf43a42766c5559dd'),
    id: ObjectId('665194cf458194cf43a42766c5559dd'),
    id: ObjectId('665194cf458194cf43a42766c5559dd'),
    id: ObjectId('665194cf458194cf458144766c5559dd'),
    id: ObjectId('665194cf458194cf458144766c5559dd'),
    id: ObjectId('665194cf458194cf458144766c5559dd'),
    id: ObjectId('665194cf458144766c5559dd'),
    id: ObjectId('665194cf458194cf458144766c5559dd'),
    id: ObjectId('665194cf458144766c5559dd'),
    id: ObjectId('665194cf4581447
```

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

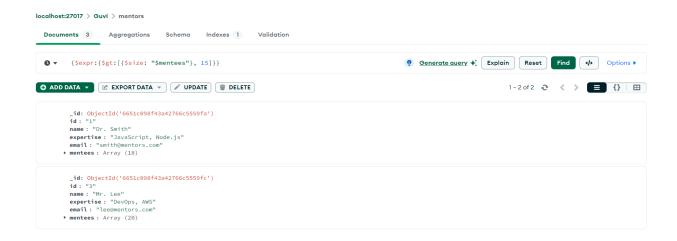
MongoDB Compass:



Shell:

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

MongoDB Compass:

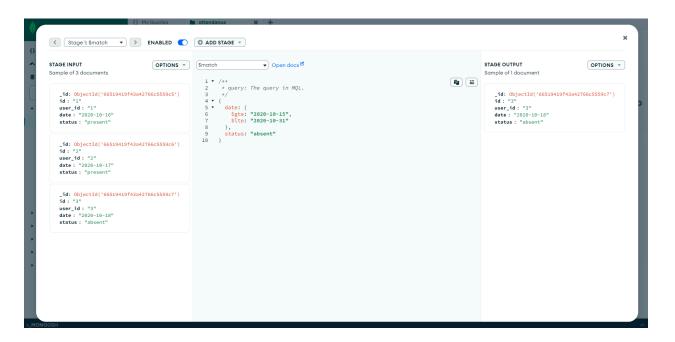


Shell:

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

MongoDB Compass:

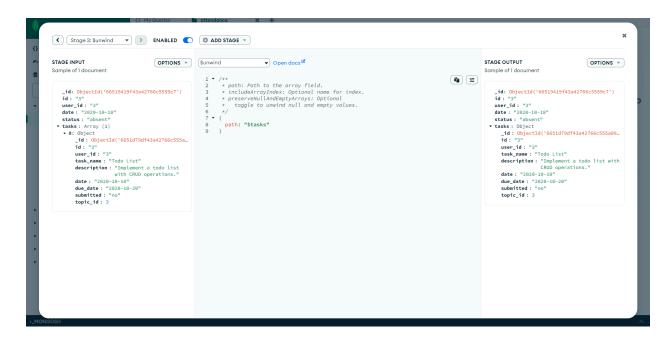
1.\$match Stage



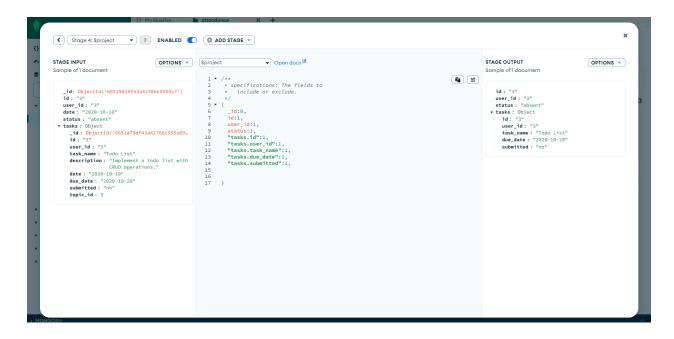
2.\$lookup Stage:

```
| Stage 2: Slockup | Dental |
```

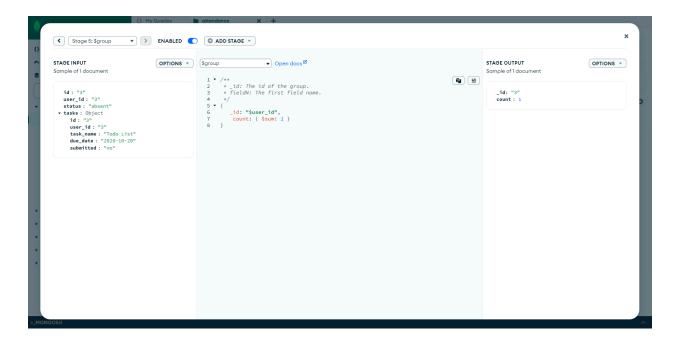
3.\$unwid stage



4.\$project stage:



5.\$group stage:



User ID 3 who was absent and who did not submit the task between 15 oct-2020 and 31-oct-2020.