

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

```
>_MONGOSH
> db.topics.find({}, {content:1,taskDetails:1})
< {
  _id: ObjectId('65fe54ccb0604917b5af6f92'),
  content: 'JavaScript - Day -1: Introduction to Browser & web',
  taskDetails: {
    task_id: 1,
    task_name: 'HTML',
    taskdate: '16/10/2023'
  }
}
{
  _id: ObjectId('65fe54ccb0604917b5af6f93'),
  content: 'JavaScript - Day -2: Datatypes',
  taskDetails: {
    task_id: 2,
    task_name: 'Css',
    taskdate: '18/10/2023'
  }
}
{
  _id: ObjectId('65fe54ccb0604917b5af6f94'),
  content: 'HTML & CSS- Day -3: HTML & CSS',
  taskDetails: {
    task_id: 3,
    task_name: 'Javacript',
    taskdate: '22/10/2023'
  }
}
```

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

```
}
db.company_drives.find({$and:[{date:{$gt:15}},{date:{$lt:29}}]})
< {
  _id: ObjectId('65fe727d4e9d649f219466e1'),
  company_id: 1,
  companyName: 'TCS',
  driveDate: '16/10/2023',
  placedstudent_name: 'vishnu',
  date: 16
}
{
  _id: ObjectId('65fe727d4e9d649f219466e3'),
  company_id: 1,
  companyName: 'tata',
  driveDate: '17/10/2023',
  placedstudent_name: 'aravidh',
  date: 17
}
{
  _id: ObjectId('65fe727d4e9d649f219466e4'),
  company_id: 1,
  companyName: 'google',
  driveDate: '17/10/2023',
  placedstudent_name: 'mani',
  date: 17
}
{
```

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

```
>_MONGOOSH
>
> db.company_drives.find().projection({placedstudent_name:1})
< {
  _id: ObjectId('65fe727d4e9d649f219466e1'),
  placedstudent_name: 'vishnu'
}
{
  _id: ObjectId('65fe727d4e9d649f219466e2'),
  placedstudent_name: 'shanmugam'
}
{
  _id: ObjectId('65fe727d4e9d649f219466e3'),
  placedstudent_name: 'aravindh'
}
{
  _id: ObjectId('65fe727d4e9d649f219466e4'),
  placedstudent_name: 'mani'
}
{
  _id: ObjectId('65fe727d4e9d649f219466e5'),
  placedstudent_name: 'kanna'
}
}
Zenclass>
```

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

```
> db.codekata.find().projection({name:1,solved_problems:1})
< {
  _id: ObjectId('65fe6cbf4e9d649f219466c9'),
  name: 'shanmuga',
  solved_problems: 300
}
{
  _id: ObjectId('65fe6cbf4e9d649f219466ca'),
  name: 'vishnu',
  solved_problems: 400
}
{
  _id: ObjectId('65fe6cbf4e9d649f219466cb'),
  name: 'perumal',
  solved_problems: 100
}
{
  _id: ObjectId('65fe6cbf4e9d649f219466cc'),
  name: 'aravindh',
  solved_problems: 400
}
{
  _id: ObjectId('65fe6cbf4e9d649f219466cd'),
  name: 'kanna',
  solved_problems: 400
}
}
```

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

```
> db.mentors.find().count()
< 6
Zenclass>
```

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

```
> MONDOOSH
> db.user.find({task:"notsubmit"})
< {
  _id: ObjectId('65fe7ea94e9d649f219466e7'),
  user_id: 2,
  name: 'vishnu',
  email: 'vishnu@gmail.com',
  mobileNumber: 8625254730,
  aadharNumber: 66711152532,
  role: 'student',
  batchId: 'FSDWD55',
  task: 'notsubmit',
  task_date: '16/10/2021'
}
{
  _id: ObjectId('65fe7ea94e9d649f219466e8'),
  user_id: 3,
  name: 'perumal',
  email: 'perumal@gmail.com',
  mobileNumber: 6357254730,
  aadharNumber: 86511152532,
  role: 'student',
  batchId: 'FSDWD55',
  task: 'notsubmit',
  task_date: '17/10/2021'
}
Zenclass>
```