Mongodb-Day-2 Task

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

```
> db.topics.find({date:{$gte:ISODate("2020-10-25T00:00:00Z")}})
< {
    _id: ObjectId('66929be342394c764599e01f'),
    topic_name: 'what is collection',
    date: 2020-11-16T00:00:00.000Z,
    user_id: ObjectId('6692925342394c764599e010')
  }
Zen >
```

Code: db.topics.find({date:{$gte:ISODate("2020-10-25T00:00:00Z")}});

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

```
> db.company_drives.find({date:{$gte: ISODate("2020-10-15T00:00:00Z"), $lte: ISODate("2020-10-31T00:00:00Z"
< {
    _id: ObjectId('6692a05442394c764599e025'),
    company_name: 'ABC Inc',
    date: 2020-10-15T00:00:00.000Z,
    drive_result: 'selected',
    user_id: ObjectId('6692925342394c764599e00c')
  }
  {
    _id: ObjectId('6692a05442394c764599e026'),
    company_name: 'pqr limited',
    date: 2020-10-20T00:00:00.000Z,
    drive_result: 'Not selected',
    user_id: ObjectId('6692925342394c764599e00d')
  }
  {
    _id: ObjectId('6692a05442394c764599e027'),
    company_name: 'EFG limited',
    date: 2020-10-25T00:00:00.000Z,
    drive_result: 'Not selected',
    user_id: ObjectId('6692925342394c764599e00e')
  }
  {
    _id: ObjectId('6692a05442394c764599e028'),
    company_name: 'hcl limited',
    date: 2020-10-30T00:00:00.000Z,
    drive_result: 'selected',
```

Code: db.topics.find({date:{$gte:ISODate("2020-10-25T00:00:00Z"),{$lte:ISODate("2020-10-31T00:00:00Z")}});

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

```
db.company_drives.find({drive_appeared:{$eq:true}});
{
  _id: ObjectId('6692aa9542394c764599e034'),
  company_name: 'ABC Inc',
  date: 2020-10-15T00:00:00.000Z,
  drive_result: 'selected',
  drive_appeared: true,
  user_id: ObjectId('6692925342394c764599e00c')
}
{
  _id: ObjectId('6692aa9542394c764599e036'),
  company_name: 'EFG limited',
  date: 2020-10-25T00:00:00.000Z,
  drive_result: 'Not selected',
  drive_appeared: true,
  user_id: ObjectId('6692925342394c764599e00e')
}
{
  _id: ObjectId('6692aa9542394c764599e037'),
  company_name: 'hcl limited',
  date: 2020-10-30T00:00:00.000Z,
  drive_result: 'selected',
  drive_appeared: true,
  user_id: ObjectId('6692925342394c764599e00f')
}
```

Code: db.company_drives.find({drive_appeared:{$eq:true}});

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

```
> db.codekata.find({},{_id:0,problems_solved:1,user_id:1});
< {
    problems_solved: 25,
    user_id: ObjectId('6692925342394c764599e00c')
  }
  {
    problems_solved: 37,
    user_id: ObjectId('6692925342394c764599e00d')
  }
  {
    problems_solved: 40,
    user_id: ObjectId('6692925342394c764599e00e')
  }
  {
    problems_solved: 20,
    user_id: ObjectId('6692925342394c764599e00f')
  }
  {
    problems_solved: 45,
    user_id: ObjectId('6692925342394c764599e010')
  }
```

Code:db.codekata.find({},{_id:0,problems_solved:1,user_id:1});

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

```
> db.mentors.countDocuments({mentee_count:{$gte:15}});
< 5
```

Code:
db.mentors.countDocuments({mentee_count :{$gte :15}});

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

Code:db.users.aggregate([

```
  {
   $lookup: {
     from: "attendance",
     localField: "_id",
     foreignField: "user_id",
     as: "attendance"
   }
  },
  {
$lookup: {
 from: "tasks",
 localField: "_id",
 foreignField: "user_id",
 as: "task"
}
},
  {
$match:{
$and:[
  {"attendance.date":{$gte:ISODate("2020-10-15"),$lte:ISODate("2020-10-31")}},
  {"attendance.absent": true},
  {"task.date":{$gte:ISODate("2020-10-15"),$lte:ISODate("2020-10-31")}},
  {"task.submitted": false}
]
}
},
  {
$group:{
_id:"$user_id"
```

```
    }
  },
  {
$count:"total_users"
  }
]);
```