```
id: ObjectId("643534e92d2d868f635d5349"),
topicid: 1,
topic:
topic_date: ISODate("2020-10-02T18:30:00.000Z"), taskinfo: [
     _id: ObjectId("643541c12d2d868f635d534e"),
taskid: 1,
     taskid: 1,
topicid: 1,
     userid: 1,
task: 'HTML
     task: 'HTML task',
due_date: ISODate("2020-10-04T18:30:00.000Z"),
submitted: true
  3
]
 id: ObjectId("643534e92d2d868f635d534a"),
topicid: 2,
topic:
topic_date: ISODate("2020-10-11T18:30:00.000Z"),
taskinfo: [
      _id: ObjectId("643541c12d2d868f635d534f"),
     taskid:
     taskid: 2,
topicid: 2,
     topicid: 2,
userid: 2,
task: 'CSS task',
due_date: ISODate("2020-10-14T18:30:00.000Z"),
submitted: true
 id: ObjectId("643534e92d2d868f635d534b"),
topicid: 3,
topic: 'Bootstrap',
topic_date: ISODate("2020-10-13T18:30:00.000Z"),
```

```
zenclass>
            db.comapnydrives.find({$or:[{drive_date:{$gte:new Date("15-oct-2020")}},
        {drive_date:{$lte:new Date("31-0ct-2020")}}]})
    _id: ObjectId("643542412d2d868f635d535e"),
   userid: 1,
    drive_date: ISODate("2020-10-17T18:30:00.000Z"),
    company: 'Infosys'
    _id: ObjectId("643542412d2d868f635d535f"),
   drive_date: ISODate("2020-10-20T18:30:00.000Z"),
    company: 'Amazon'
    _id: ObjectId("643542412d2d868f635d5361"),
    drive_date: ISODate("2020-11-03T18:30:00.000Z"),
   company: 'ITC'
    _id: ObjectId("643542412d2d868f635d5362"),
    userid: 5,
    drive_date: ISODate("2020-11-12T18:30:00.000Z"),
    company: 'Fintech'
```

```
3. Find all the company drives and students who are appeared for the
placement.
db.companydrives.aggregate([
    {
        $lookup: {
              from: "users",
              localField: "userid",
              foreignField:"userid",
              as :"userinfo"
             }
    },
        $project:{
            id:0,
            "userinfo.name":1,
            company:1,
            drive_date:1,
            "userinfo.email":1,
            "userinfo.userid":1
        }
```

```
drive_date: ISODate("2020-10-04T18:30:00.000Z"),
    company: 'Amazon',
    userinfo: [ { userid: 1, name: 'selvam', email: 'selva@gmail.com' } ]
},
drive_date: ISODate("2020-10-17T18:30:00.000Z"),
    company: 'Infosys',
    userinfo: [ { userid: 1, name: 'selvam', email: 'selva@gmail.com' } ]
},
drive_date: ISODate("2020-10-20T18:30:00.000Z"),
    company: 'Amazon',
    userinfo: [ { userid: 2, name: 'siva', email: 'siva@gmail.com' } ]
},
drive_date: ISODate("2020-10-07T18:30:00.000Z"),
    company: 'TCS',
    userinfo: [ { userid: 3, name: 'kutty', email: 'kutty@gmail.com' } ]
},
drive_date: ISODate("2020-11-03T18:30:00.000Z"),
    company: 'ITC',
    userinfo: [ { userid: 4, name: 'ahamad', email: 'ahamad@gmail.com' } ]
},
drive_date: ISODate("2020-11-12T18:30:00.000Z"),
    company: 'Fintech',
    userinfo: [ { userid: 5, name: 'priya', email: 'priya@gmail.com' } ]
}
```

```
{ userid: 1, problems: 500, userinfo: [ { name: 'selvam' } ] },
    { userid: 2, problems: 300, userinfo: [ { name: 'siva' } ] },
    { userid: 3, problems: 255, userinfo: [ { name: 'kutty' } ] },
    { userid: 4, problems: 355, userinfo: [ { name: 'ahamad' } ] },
    { userid: 5, problems: 475, userinfo: [ { name: 'priya' } ] }
]
```

```
5.Find all the mentors with who has the mentee's count more than 15 db.mentors.find({mentee_count:{$gt:15}});
```

```
zenclass> db.mentors.find({mentee_count:{$gt:15}})
  {
    _id: ObjectId("643542052d2d868f635d5358"),
    mentorid: 1,
    mentorname: 'Ruban',
    mentor_email: 'ruban@gmail.com',
    mentee_count: 20
  },
    _id: ObjectId("643542052d2d868f635d535a"),
    mentorid: 3,
    mentorname: 'sathis',
    mentor_email: 'sathis@gmail.com',
    mentee_count: 100
    _id: ObjectId("643542052d2d868f635d535b"),
    mentorid: 4,
    mentorname: 'sanjay',
    mentor_email: 'sanjay@gmail.com',
    mentee_count: 18
  },
    _id: ObjectId("643542052d2d868f635d535c"),
    mentorid: 5,
    mentorname: 'sai mohan',
    mentor_email: 'saimohan@gmail.com',
    mentee_count: 25
```

```
//6.Find the number of users who are absent and task is not submitted between
15 oct-2020 and 31-oct-2020
db.attendance.aggregate([
    {$lookup: {
           from: "topics",
           localField: "topicid",
           foreignField: "topicid",
           as: "topics"
         }},
             $lookup: {
                    from: "tasks",
                    localField: "topicid",
                    foreignField: "topicid",
                    as: "tasks"
                  }
         {$match:{$and:[{attended:false},{"tasks.submitted":false}]}},
         {\$match:{\$and:[{\$or:[{"topics.topic_date":{\$gte:new Date("15-oct-
2020")}},{"topics.topic_date":{$lte:new Date("31-oct-2020")}}]},
         {$or:[{"tasks.due_date":{$gte:new Date("15-oct-
2020")}},{"tasks.due_date":{$lte:new Date("31-oct-2020")}}]}
         ]}},
             $count: "No_of_students_absent"
```