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

```
db.task.aggregate([
  {
    $match: {
      deadline: {$gte: ISODate('2020-10-01'), $lte:
ISODate('2020-10-31')}
    }
  },
  {
    $project: {
      _id: 0 ,
      task_id: 1,
      task_name: 1,
      deadline: 1
    }
  },
  {
    $unionWith:{
      coll: "topics",
      pipeline: [
           $match: {
```

```
ISODate('2020-10-31')}
         },
        {
           $project: {
             _id: 0 ,
             topic_id: 1,
             topic_name: 1,
             date:1
           }
         },
  }
 ]).pretty();
```

date: {\$gte: ISODate('2020-10-01'), \$lte:

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

```
db.company.find({date: {$gte: ISODate('2020-10-15'), $lte: ISODate('2020-10-31') }}).pretty();
```

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

```
db.company.aggregate([
 {
    $lookup: {
      from: "users",
      localField: "students",
      foreignField: "user_name",
      as: "Placed"
    }
 },
 {
    $unwind: {
      path: "$Placed"
    }
  },
 {
    $project: {
      _id: 0,
      company_name: 1,
      date: 1,
      "Placed.user_id": 1,
      "Placed.user_name": 1,
      "Placed.email": 1
    }
 ]).pretty();
```

Find the number of problems solved by the user in codekata

```
}
 },
{
  $group: {
   _id: "$user_id",
   user_name: { $first: "$user_name" },
   solved_problems_count: { $sum: 1 }
 }
},
{
  $project: {
   _id: 0,
   user_id: "$_id",
   user_name: 1,
   solved_problems_count: 1
 }
}
])
```

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

db.mentor.find({mentees_count:{ \$gt: 15}}).pretty();

```
db.mentor.find({mentees_count:{ $gt: 15}}).pretty();

"_id": ObjectId("65ff1600d27205534761cb57"),
    "mentor_id": 1,
    "mentor_name": "Abhishek",
    "mentees_count": 16

"_id": ObjectId("65ff1600d27205534761cb58"),
    "mentor_id": 2,
    "mentor_name": "Jagan",
    "mentees_count": 18

"_id": ObjectId("65ff1600d27205534761cb5a"),
    "mentor_id": 4,
    "mentor_name": "Sangeetha",
    "mentees_count": 18

"_id": ObjectId("65ff1600d27205534761cb5b"),
    "mentees_count": 18

"_id": ObjectId("65ff1600d27205534761cb5b"),
    "mentees_count": 18
```

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

```
db.attendance.aggregate([
   $match: {
    attend: false
   }
  },
   $lookup: {
    from: "task",
    localField: "user_id",
    foreignField: "user_id",
    as: "user_tasks"
   }
  },
  {
   $match: {
    "user_tasks.deadline": { $gte: ISODate('2020-10-15'), $lte:
ISODate('2020-10-31') },
    "user_tasks.submitted": false
   }
  },
  {
   $lookup: {
    from: "users",
    localField: "user_id",
```

```
foreignField: "user_id",
    as: "user_details"
}
},
{
    $project: {
    _id: 0,
    user_id: "$user_id",
    user_name: "$user_details.user_name"
}
}
```