

## MongoDB Day-2 Task

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

### Query:

```
db.topics.find({
  "date":
  { $gte: ISODate("2023-10-01T00:00:00Z"),
    $lt: ISODate("2023-11-01T00:00:00Z") }
},
{
  "_id": 0,
  "title": 1,
  "date": 1
})
```

2. Find all the company drives which appeared between 15 oct-2023 and 31-oct-2023

### Query:

```
db.company_drives.find({
  driveDate:
  { $gte: ISODate("2023-10-15T00:00:00.000Z"),
    $lte: ISODate("2023-10-31T23:59:59.999Z") }
})
```

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

### Query:

```
db.user_company_drive_assignments.aggregate([
  {
    $match: {
      attended: true
    }
  },
  {
    $lookup: {
      from: "company_drives",
      localField: "company",
      foreignField: "company",
      as: "drive"
    }
  },
])
```

```

{
  $lookup: {
    from: "users",
    localField: "userId",
    foreignField: "_id",
    as: "student"
  }
},
{
  $unwind: "$drive"
},
{
  $unwind: "$student"
},
{
  $project: {
    _id: 0,
    "drive.company": 1,
    "drive.jobRole": 1,
    "student.name": 1
  }
}
]
)

```

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

##### Query:

```

db.user_codekata_solutions.aggregate([
  {
    $group: {
      _id: "$userId",
      totalSolved: { $sum: { $cond: { if: "$solved",
then: 1, else: 0 } } }
    }
  },
  {
    $lookup: {
      from: "users",
      localField: "_id",
      foreignField: "_id",
      as: "userDetails"
    }
  },
  {
    $unwind: "$userDetails"
  }
]
)

```

```

    },
    {
      $project: {
        _id: 0,
        userName: "$userDetails.name",
        totalSolved: 1
      }
    }
  ] )

```

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

**Query:**

```

db.mentors.aggregate([
  {
    $match: {
      menteecount: { $gt: 15 }
    }
  },
  {
    $project: {
      _id: 0,
      mentorName: "$name",
      menteecount: 1
    }
  }
] )

```

6. Find the number of users who are absent and task is not submitted between 15 oct-2023 and 31-oct-2023

**Query:**

```

db.attendance.aggregate([
  {
    $match: {
      {
        date: {
          $gte: ISODate("2023-10-15T00:00:00.000Z"),
          $lte: ISODate("2023-10-31T23:59:59.999Z")
        },
        isPresent: false
      }
    }
  },

```

```
{
  $lookup:
  {
    from: "task_assignments",
    localField: "userId",
    foreignField: "userId",
    as: "tasks"
  }
},
{
  $match: {
    "tasks.completed": false
  }
},
{
  $group: {
    _id: "$userId", count: { $sum: 1 }
  }
},
{
  $group:
  {
    _id: null, totalCount: { $sum: 1 }
  }
}
]);
```