

MongoDB-Task

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

```
db.tasks.aggregate([{$lookup:{
  from:'topics',
  localField:'topic_id',
  foreignField:'_id',
  as:'topic_task'
}},
{$unwind:'$topic_task'},
{$project:{
  _id:0,
  month:1,
  duration:1,
  Total_mark:1,
  topic_name:'$topic_task.topic_name'
}},
{
  $match : {"month":"october"}
}
]);
```

```
{
  month: 'october',
  duration: '3days',
  Total_mark: '50',
  topic_name: 'React'
}
{
  month: 'october',
  duration: '3days',
  Total_mark: '50',
  topic_name: 'React'
}
```

```
{  
  month: 'october',  
  duration: '3days',  
  Total_mark: '50',  
  topic_name: 'React'
```

```
}  
{  
  month: 'october',  
  duration: '3days',  
  Total_mark: '50',  
  topic_name: 'MYsql'
```

```
}  
{  
  month: 'october',  
  duration: '3days',  
  Total_mark: '50',  
  topic_name: 'MongoDB'
```

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

```
db.company_drives.aggregate([  
  $match: {"date": {$gt: "15.10.2020", $lt: "31.10.2020"}}  
],  
{  
  $project: {  
    _id: 0,  
  }  
});  
{  
  department: 'Software Development',  
  date: '17.10.2020',
```

```

    'update field': 'Fields Updation.ppt'
  }
  {
    department: 'Design',
    date: '16.10.2020',
    'update field': 'Design Analysis.ppt'
  }
  {
    department: 'Design',
    date: '17.10.2020',
    'update field': 'Design Update.ppt'
  }
  {
    department: 'Design',
    date: '18.10.2020',
    'update field': 'Design Confirmation.ppt'
  }
  {
    department: 'Design',
    date: '19.10.2020',
    'update field': 'Final Design.ppt'
  }

```

3.

```

db.company_drives.aggregate([
  {
    $lookup: {
      from: "users",
      localField: "user_id",

```

```

    foreignField: "_id",
    as: "user"
  }
},
{
  $unwind: {
    path: "$user",
    preserveNullAndEmptyArrays: true
  }
},
{
  $project: {
    _id: 0,
    user_id: 1,
    user_placement: "$user.placement",
    user_course: '$user.course',
  }
}
]);
{
  user_id: ObjectId('65e1be3a2fa1fed02543e4a4'),
  user_placement: true,
  user_course: 'FSD'
}
{
  user_id: ObjectId('65e1be3a2fa1fed02543e4a5'),
  user_placement: false,

```

```

    user_course: 'FSD'
  }
  {
    user_id: ObjectId('65e1be3a2fa1fed02543e4a6'),
    user_placement: true,
    user_course: 'FSD'
  }
  {
    user_id: ObjectId('65e1be3a2fa1fed02543e4a7'),
    user_placement: true,
    user_course: 'FSD'
  }
  {
    user_id: ObjectId('65e1be3a2fa1fed02543e4a8'),
    user_placement: false,
    user_course: 'FSD'
  }

```

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

```

db.users.aggregate([
  $project:{
    _id:1,
    course:1,
    mentor:1,
    codekata:1
  }
]);
{

```

```
_id: ObjectId('65e1be3a2fa1fed02543e4a8'),  
course: 'FSD',  
mentor: 'GVM',  
codekata: 44  
}  
{  
  _id: ObjectId('65e1be3a2fa1fed02543e4a7'),  
  course: 'FSD',  
  mentor: 'GVM',  
  codekata: 40  
}  
{  
  _id: ObjectId('65e1be3a2fa1fed02543e4a6'),  
  course: 'FSD',  
  mentor: 'GVM',  
  codekata: 38  
}  
{  
  _id: ObjectId('65e1be3a2fa1fed02543e4a5'),  
  course: 'FSD',  
  mentor: 'Dinesh',  
  codekata: 28  
}  
{  
  _id: ObjectId('65e1be3a2fa1fed02543e4a4'),  
  course: 'FSD',  
  mentor: 'Dinesh',
```

codekata: 48

}

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

db.mentors.aggregate([

```
{
  $match: {
    "mentees": { $gt: 15 }
  }
},
```

```
{
  $project: {
    mentor_name: 1,
    mentees:1,
    _id:0,
  }
}
```

]);

{

mentor_name: 'Dinesh',

mentees: 16

}

{

mentor_name: 'Vishesh',

mentees: 18

}

{

mentor_name: 'GVM',

mentees: 16

}

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

2020 and 31-oct-2020

db.users.aggregate([

{

 \$match: {

 abs_date: {

 \$gte: "15.10.2020",

 \$lte: "31.10.2020"

 },

 task: false

 }

},

{

 \$lookup: {

 from: "tasks",

 localField: "_id",

 foreignField: "topic_id",

 as: "user_tasks"

 }

},

{

 \$match: {

 user_tasks: { \$eq: [] } }

},

{

 \$count: "total_users"

}


```
]);
```

```
[{total_users:4}];
```