**MongoDB Day**

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

db.topics.aggregate([

{

$match: { month: "october" }

},

{

$lookup: {

from: "tasks",

localField: "topics",

foreignField: "topic\_name",

as: "tasks"

}

}

]);

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

db.company\_drives.find({

date: {

$gte: ISODate("2020-10-15T00:00:00.000Z"),

$lte: ISODate("2020-10-31T23:59:59.999Z")

}

});

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

db.company\_drives.find()

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

db.codekata.aggregate([

{

$unwind: "$codekata"

},

{

$group: {

\_id: "$codekata.username",

totalSolved: { $sum: "$codekata.solved" }

}

}

]);

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

db.mentors.find({ mentees\_count: { $gt: 15 } });

**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([

{

$match: {

topics: {

$in: db.topics.find({ month: "october" }).map(topic => topic.topics)

} } },

{

$project: {

\_id: 0,

absent\_users: {

$isetDifference: [

"$present",

{ $ifNull: [{ $reduce: { input: "$tasks.submited", initialValue: [], in: { $concatArrays: ["$$value", "$$this"] } } }, []] }

] } } },

{

$unwind: "$absent\_users"

},

{

$group: {

\_id: "$absent\_users",

count: { $sum: 1 }

} }]);