**MONGODB TASK 2**

**Design database for Zen class programme**

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

**Ans:** db.topics.aggregate ([

{

$lookup: {

from: "tasks",

localField: "topic\_id",

foreignField: "topic\_id",

as: "result"

}

},

{

$match: {

month:"October"

}

},

{

$addFields: {

result: {

$arrayElemAt: ["$result",0]

}

}

},

{

$project: {

topic: "$title",

tasks: "$result.task\_desc",

\_id:0

}

}])

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

**Ans:** db.placement.find(

{$and: [ { date\_of\_drive: {$gte:"15-oct-2020"}},

{date\_of\_drive: {$lte: "31-oct-2020"}} ]}, {name:1,date\_of\_drive:1, \_id:0})

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

**Ans:** db.placement.aggregate([

{

$lookup:{

from: "users",

localField: "student\_attended",

foreignField: "id",

as: "result"

}

},

{

$addFields: {

result: {

$arrayElemAt: ["$result",0]

}

}},

{

$project: {

Company:"$name",

Student\_name: "$result.name",

\_id:0

}

}

])

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

**Ans:** db.codekata.aggregate([

{

$lookup: {

from: "users",

localField: "user\_id",

foreignField: "id",

as: "result"

}

},

{

$addFields: {

result:{

$arrayElemAt: ["$result",0]

}

}

},

{

$project: {

Student\_id: "$user\_id",

Name: "$result.name",

No\_of\_problems\_solved: "$prob\_solved",

\_id:0

}

}

])

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

**Ans:** db.mentor.find(

{mentee\_count: {$gt:15}},

{name:1,mentee\_count:1,\_id:0})