1. Write a query to insert student details in student collection

> use mongoDb

switched to db mongoDb

> db.students.insertMany([

... {

... "studentId": 1,

... "stuName": "Rahul",

... "batch":"B1",

... "stuEmail": "Rahul@gmail.com",

... "stuDOB": "14-12-1995"

... },

... {

... "studentId": 2,

... "stuName": "Ram",

... "batch":"B1",

... "stuEmail": "Ram@gmail.com",

... "stuDOB": "24-12-1995"

... },

... {

... "studentId": 3,

... "stuName": "Gireesh",

... "stuEmail": "Gireesh@gmail.com",

... "stuDOB": "25-10-1994"

... },

... {

... "studentId": 4,

... "stuName": "srikar",

... "stuEmail": "srikar@gmail.com",

... "stuDOB": "14-12-1993"

... },

... {

... "studentId": 5,

... "stuName": "ravali",

... "stuEmail": "ravali@gmail.com",

... "stuDOB": "14-09-1997"

... },

... {

... "studentId": 6,

... "stuName": "raheja",

... "stuEmail": "Raheja@gmail.com",

... "stuDOB": "14-10-1994"

... },

... {

... "studentId": 7,

... "stuName": "bodhan",

... "stuEmail": "bodhan@gmail.com",

... "stuDOB": "14-09-1995"

... },

... {

... "studentId": 8,

... "stuName": "akhil",

... "stuEmail": "akhil@gmail.com",

... "stuDOB": "24-07-1998"

... },

... {

... "studentId": 9,

... "stuName": "praveen",

... "stuEmail": "praveen@gmail.com",

... "stuDOB": "20-07-1990"

... },

... {

... "studentId": 10,

... "stuName": "Rama",

... "stuEmail": "Rama@gmail.com",

... "stuDOB": "10-12-1994"

... },

... {

... "studentId": 11,

... "stuName": "ravi",

... "stuEmail": "ravi@gmail.com",

... "stuDOB": "16-12-1996"

... },

... {

... "studentId": 12,

... "stuName": "krishna",

... "stuEmail": "krishna@gmail.com",

... "stuDOB": "14-10-1996"

... },

... {

... "studentId": 13,

... "stuName": "mehta",

... "stuEmail": "mehta@gmail.com",

... "stuDOB": "24-10-1995"

... },

... {

... "studentId": 14,

... "stuName": "shirisha",

... "stuEmail": "shirisha@gmail.com",

... "stuDOB": "14-12-1998"

... },

... {

... "studentId": 15,

... "stuName": "anusha",

... "stuEmail": "anusha@gmail.com",

... "stuDOB": "20-12-1995"

... },

... {

... "studentId": 16,

... "stuName": "sravanthi",

... "stuEmail": "sravanthi@gmail.com",

... "stuDOB": "24-10-1996"

... },

... {

... "studentId": 17,

... "stuName": "shailaja",

... "stuEmail": "shailaja@gmail.com",

... "stuDOB": "25-10-1996"

... },

... {

... "studentId": 18,

... "stuName": "sreesha",

... "stuEmail": "sreesha@gmail.com",

... "stuDOB": "04-10-1995"

... },

... {

... "studentId": 19,

... "stuName": "avanthi",

... "stuEmail": "avanthi@gmail.com",

... "stuDOB": "14-10-1996"

... },

... {

... "studentId": 20,

... "stuName": "keerthika",

... "stuEmail": "keerthika@gmail.com",

... "stuDOB": "12-10-1997"

... }

... ])

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("606b3bdde313eff612b319c0"),

ObjectId("606b3bdde313eff612b319c1"),

ObjectId("606b3bdde313eff612b319c2"),

ObjectId("606b3bdde313eff612b319c3"),

ObjectId("606b3bdde313eff612b319c4"),

ObjectId("606b3bdde313eff612b319c5"),

ObjectId("606b3bdde313eff612b319c6"),

ObjectId("606b3bdde313eff612b319c7"),

ObjectId("606b3bdde313eff612b319c8"),

ObjectId("606b3bdde313eff612b319c9"),

ObjectId("606b3bdde313eff612b319ca"),

ObjectId("606b3bdde313eff612b319cb"),

ObjectId("606b3bdde313eff612b319cc"),

ObjectId("606b3bdde313eff612b319cd"),

ObjectId("606b3bdde313eff612b319ce"),

ObjectId("606b3bdde313eff612b319cf"),

ObjectId("606b3bdde313eff612b319d0"),

ObjectId("606b3bdde313eff612b319d1"),

ObjectId("606b3bdde313eff612b319d2"),

ObjectId("606b3bdde313eff612b319d3")

]

}

1. Write a query to insert batch details in batch collection

> use mongoDb

switched to db mongoDb

> db.batch.insertMany([

... {

... "batch": "B1",

... "attendance": [

... {

... "date": "24-04-21",

... "presentees":["Rahul","Ram","Gireesh"]

... },

... {

... "date": "25-04-21",

... "presentees":["Rahul","Gireesh"]

... },

... {

... "date": "26-04-21",

... "presentees":["Rahul","Ram","Gireesh"]

... }

... ]

... },

... {

... "batch": "B2",

... "attendance": [

... {

... "date": "24-04-21",

... "presentees":["srikar","ravali","raheja","bodhan"]

... },

... {

... "date": "25-04-21",

... "presentees":["srikar","raheja","bodhan"]

... },

... {

... "date": "26-04-21",

... "presentees":["srikar","ravali","raheja"]

... }

... ]

... },

... {

... "batch": "B3",

... "attendance": [

... {

... "date": "24-04-21",

... "presentees":["akhil","praveen","Rama","ravi","krishna"]

... },

... {

... "date": "25-04-21",

... "presentees":["akhil","praveen","Rama","krishna"]

... },

... {

... "date": "25-04-21",

... "presentees":["akhil","praveen","Rama","krishna"]

... }

... ]

... }

...

... ]

...

...

... )

{

"acknowledged" : true,

"insertedIds" : [

ObjectId("606b444aecb6a20d987a766e"),

ObjectId("606b444aecb6a20d987a766f"),

ObjectId("606b444aecb6a20d987a7670")

]

}

3) Write a query to Mark attendance for the students at respective batch on Jan 23 2020.

> use mongoDb

switched to db mongoDb

> db.batch.update({"batch":"B1"},{$push:{"attendance":[{"date":"23-01-2020","presentees":["Rahul","Ram","Gireesh"]}]}})

WriteResult({ "nMatched" : 1, "nUpserted" : 0, "nModified" : 1 })

> db.batch.find({batch:"B1"}).pretty();

{

"\_id" : ObjectId("6069e630602959e463d4f1f8"),

"batch" : "B1",

"studetails" : [

{

"stuname" : "Rahul",

"attendance" : [

{

"date" : "24-04-21",

"ispresent" : true

},

{

"date" : "25-04-21",

"ispresent" : true

},

{

"date" : "26-04-21",

"ispresent" : false

},

{

"date" : "27-04-21",

"ispresent" : true

},

{

"date" : "2020-01-23",

"ispresent" : true

}

]

},

{

"stuname" : "Ram",

"attendance" : [

{

"date" : "24-04-21",

"ispresent" : true

},

{

"date" : "25-04-21",

"ispresent" : true

},

{

"date" : "26-04-21",

"ispresent" : false

},

{

"date" : "27-04-21",

"ispresent" : true

},

{

"date" : "2020-01-23",

"ispresent" : false

}

]

},

{

"stuname" : "Gireesh",

"attendance" : [

{

"date" : "24-04-21",

"ispresent" : false

},

{

"date" : "25-04-21",

"ispresent" : true

},

{

"date" : "26-04-21",

"ispresent" : false

},

{

"date" : "27-04-21",

"ispresent" : true

}

]

}

],

"attendance" : [

[

{

"date" : "23-01-2020",

"presentees" : [

"Rahul",

"Ram",

"Gireesh"

]

}

]

]

}

{

"\_id" : ObjectId("6069e7b11dbeb3119cd70f81"),

"batch" : "B1",

"studetails" : [

{

"stuname" : "Rahul",

"attendance" : [

{

"date" : "24-04-21",

"ispresent" : true

},

{

"date" : "25-04-21",

"ispresent" : true

},

{

"date" : "26-04-21",

"ispresent" : false

},

{

"date" : "27-04-21",

"ispresent" : true

}

]

},

{

"stuname" : "Ram",

"attendance" : [

{

"date" : "24-04-21",

"ispresent" : true

},

{

"date" : "25-04-21",

"ispresent" : true

},

{

"date" : "26-04-21",

"ispresent" : false

},

{

"date" : "27-04-21",

"ispresent" : true

}

]

},

{

"stuname" : "Gireesh",

"attendance" : [

{

"date" : "24-04-21",

"ispresent" : false

},

{

"date" : "25-04-21",

"ispresent" : true

},

{

"date" : "26-04-21",

"ispresent" : false

},

{

"date" : "27-04-21",

"ispresent" : true

}

]

}

]

}

{

"\_id" : ObjectId("606b444aecb6a20d987a766e"),

"batch" : "B1",

"attendance" : [

{

"date" : "24-04-21",

"presentees" : [

"Rahul",

"Ram",

"Gireesh"

]

},

{

"date" : "25-04-21",

"presentees" : [

"Rahul",

"Gireesh"

]

},

{

"date" : "26-04-21",

"presentees" : [

"Rahul",

"Ram",

"Gireesh"

]

}

]

}

4) Write a query to display the batch details and attendance history of student 1.

[{

$match:{

$and:[{

“batch”:”B1”

},{

“attendance.presentees”:{

$in:[“Rahul]

}

}]

}

},{

$lookup:{

from:”students”,

localField:’string’,

foreignField:’string’,

as:’students’

}

}]

5) Write a query to display the students attending batch1 along with their attendance history.

[{

$match:{

“batch”:”B1”

}

},{

$lookup:{

from:”batch”,

localField:’string’,

foreignField:’string’,

as:’batch’

}

}]