19. Create Database DYPIT using MongoDB

Use DYPIT

Create following Collections Teachers(Tname,dno,dname,experience,salary,date\_of\_joining )

db.createCollection('Teachers')

db.Teachers.insertMany([{

'Tname': 'Sojwal',

'dno': 1,

'dname': 'Computer',

'experience':11,

'salary':10001,

'date\_of\_joining':'1/1/2001'

},

{

'Tname': 'Omkar',

'dno': 2,

'dname': 'IT',

'experience':5,

'salary':100011,

'date\_of\_joining':'2/2/2012'

},

{

'Tname': 'Arshad',

'dno': 3,

'dname': 'E&TC',

'experience':17,

'salary':200001,

'date\_of\_joining':'9/6/1996'

},

{

'Tname': 'Akshay',

'dno': 2,

'dname': 'IT',

'experience':7,

'salary':10002,

'date\_of\_joining':'1/1/2011'

}])

Students(Sname,roll\_no,class)

db.createCollection(‘Students’)

db.Students.insertMany([{

'Sname': 'Rupesh',

'roll\_no': 1,

'class': 'Computer'

},

{

'Sname': 'Ramdas',

'roll\_no': 2,

'class': 'E&TC'

},

{

'Sname': 'Chetan',

'roll\_no': 3,

'class': 'IT'

}])

1. Find the information about all teachers

db.Teachers.find().pretty()

2. Find the information about all teachers of computer department

db.Teachers.find({'dname':'Computer'}).pretty()

3. Find the information about all teachers of computer,IT,ande&TC department

db.Teachers.find().pretty()

4. Find the information about all teachers of computer,IT,and E&TC department having salary greate than or equl to 10000/-

db.Teachers.find({'salary':{$gte:10000}}).pretty()

5. Find the student information having roll\_no = 2 or Sname=xyz

db.Students.find({$or:[{'roll\_no':2},{'Sname':'xyz'}]}).pretty()

6. Update the experience of teacher-praveen to 10years, if the entry is not available in database consider the entry as new entry.

db.Teachers.insert({

... 'Tname': 'Praveen',

... 'dno': 3,

... 'dname': 'E&TC',

... 'experience':11,

... 'salary':5001,

... 'date\_of\_joining':'1/1/2021'

... })

db.Teachers.updateOne({Tname:'Praveen'}, {$set:{experience:10}})

7. Update the deparment of all the teachers working in IT deprtment to COMP

db.Teachers.updateMany({dname:'IT'}, {$set:{dname:'Computer'}})

8. find the teachers name and their experience from teachers collection

db.Teachers.find({},{dname:0,dno:0,salary:0,date\_of\_joining:0}).pretty()

db.Teachers.find({},{dno:0,dname:0,salary:0,date\_of\_joining:0})

9. Using Save() method insert one entry in department collection

db.Teachers.save({

'Tname': 'Rajesh',

... 'dno': 1,

... 'dname': 'Computer',

... 'experience':8,

... 'salary':50001,

... 'date\_of\_joining':'1/1/2019'

})

10. Using Save() method change the dept of teacher Rajesh to IT

11. Delete all the doccuments from teachers collection having IT dept

db.Teachers.deleteMany({“dname”:”IT”})

12. display with pretty() method, the first 3 doccuments in teachers collection in ascending order

db.Teachers.find().sort({dno:1}).limit(3).pretty()