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()

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1.Create Database DYPIT

2. Create following Collections Teachers(Tname,dno,dname,experience,salary,date_of_joining) Students(Sname,roll_no,class)

3. Find the information about two teachers

db.Teachers.find().limit(2).pretty()

4. Find the information about all teachers of computer department

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

6.. Find the information about all teachers of computer,IT,and E&TC department having salary greate than or equl to 25000/-

db.Teachers.find({'salary':{$gte:25000}}).pretty()

7. Find the student information having roll_no = 25 or Sname=xyz

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

db.Teachers.find({},{dname:0,dno:0,salary:0,date_of_joining:0}).pretty()11. Using Save() method insert one entry in department collection

Same as 19

14. display with pretty() method, the first 5 documents in teachers collection in ascending order

db.Teachers.find().sort({dno:1}).limit(5).pretty()