Name: Mayuresh Rajendrraa Deshmukh

Class: TE A

Roll No: TECOA124

Batch: A2

Assignment No. 9

Title: CRUD in MongoDB

1.Create Database PCCOE

```
> use pccoe124
switched to db pccoe124
> db
pccoe124
```

2. Create following Collections

Teachers(Tname,dno,dname,experience,salary,date_of_joining)

use pccoe124
switched to db pccoe124
> db
pccoe124
> db.createCollection("teachers")
{ "ok" : 1 }
Students(Sname,roll_no,class)

db.createCollection("student")

{ "ok" : 1 }

3. Find the information about all teachers

> db.teachers.find({})

```
{ "_id" : ObjectId("5d68a54e929b042788bd46c1"), "tname" : "rahul", "dno" : 101, "dname" : "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "id": ObjectId("5d68a62d929b042788bd46c2"), "tname": "sonali", "dno": 102, "dname": "it",
"experience": 3, "salary": 20000, "doj": ISODate("2005-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a696929b042788bd46c3"), "tname" : "sudeep", "dno" : 101, "dname" : "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a724929b042788bd46c4"), "tname" : "ashley", "dno" : 101, "dname" : "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a928929b042788bd46c5"), "tname" : "reema", "dno" : 103, "dname" : "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "_id" : ObjectId("5d68a994929b042788bd46c6"), "tname" : "sayali", "dno" : 103, "dname" : "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
{ "_id" : ObjectId("5d68aac2929b042788bd46c7"), "tname" : "shaikh", "dno" : 104, "dname" : "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z")}
{ "_id" : ObjectId("5d68aaf8929b042788bd46c8"), "tname" : "jagtap", "dno" : 105, "dname" : "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
```

4. Find the information about all teachers of computer department

```
db.teachers.find({dname:'comp'})
{ "_id" : ObjectId("5d68a54e929b042788bd46c1"), "tname" : "rahul", "dno" : 101, "dname" : "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
5. Find the information about all teachers of computer, IT, and e&TC department
db.teachers.find({dname:{$in:['it','comp','entc']}})
{ "id": ObjectId("5d68a54e929b042788bd46c1"), "tname": "rahul", "dno": 101, "dname": "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ " id" : ObjectId("5d68a62d929b042788bd46c2"), "tname" : "sonali", "dno" : 102, "dname" : "it",
"experience": 3, "salary": 20000, "doj": ISODate("2005-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a696929b042788bd46c3"), "tname" : "sudeep", "dno" : 101, "dname" : "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a724929b042788bd46c4"), "tname" : "ashley", "dno" : 101, "dname" : "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a928929b042788bd46c5"), "tname" : "reema", "dno" : 103, "dname" : "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "id": ObjectId("5d68a994929b042788bd46c6"), "tname": "sayali", "dno": 103, "dname": "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
6. Find the information about all teachers of computer, IT, and E&TC department having salary greater than
or equal to 10000/-
db.teachers.find({dname:{$in:['it','comp','entc']},salary:{$gte:10000}})
{ "id": ObjectId("5d68a54e929b042788bd46c1"), "tname": "rahul", "dno": 101, "dname": "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "id": ObjectId("5d68a62d929b042788bd46c2"), "tname": "sonali", "dno": 102, "dname": "it",
"experience": 3, "salary": 20000, "doi": ISODate("2005-05-31T18:30:00Z") }
{" id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "dno": 103, "dname": "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "_id" : ObjectId("5d68a994929b042788bd46c6"), "tname" : "sayali", "dno" : 103, "dname" : "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
7. Find the student information having roll_no = 2 or Sname=xyz
db.student.find({})
{ "_id" : ObjectId("5d70a4cd3a696c644c18b6ec"), "name" : "ashwin", "roll" : 1 }
{ " id" : ObjectId("5d70a5873a696c644c18b6ed"), "name" : "abc", "roll" : 2 }
{ " id" : ObjectId("5d70a5cb3a696c644c18b6ee"), "name" : "mayur", "roll" : 3 }
{ " id" : ObjectId("5d70a7e73a696c644c18b6ef"), "name" : "xyz", "roll" : 5 }
{ " id" : ObjectId("5d70a9ef3a696c644c18b6f0"), "name" : "bhavesh", "roll" : 7 }
{ " id" : ObjectId("5d70aa333a696c644c18b6f1"), "name" : "xyz", "roll" : 10 }
```

db.student.find({\$or:[{roll:2},{name:'xyz'}]})

```
{ " id" : ObjectId("5d70a5873a696c644c18b6ed"), "name" : "abc", "roll" : 2 }
{ "_id" : ObjectId("5d70a7e73a696c644c18b6ef"), "name" : "xyz", "roll" : 5 }
{ " id" : ObjectId("5d70aa333a696c644c18b6f1"), "name" : "xyz", "roll" : 10 }
8. Update the experience of teacher prayeen to 10 years, if the entry is not available in database
consider the entry as new entry.
> db.teachers.update({tname:'praveen'},{$set:{'experience':10}},{upsert:'true'})
> db.teachers.find({})
{" id": ObjectId("5d68a54e929b042788bd46c1"), "tname": "rahul", "dno": 101, "dname": "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "id": ObjectId("5d68a62d929b042788bd46c2"), "tname": "sonali", "dno": 102, "dname": "it",
"experience": 3, "salary": 20000, "doj": ISODate("2005-05-31T18:30:00Z")}
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a724929b042788bd46c4"), "tname" : "ashley", "dno" : 101, "dname" : "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a928929b042788bd46c5"), "tname" : "reema", "dno" : 103, "dname" : "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "id": ObjectId("5d68a994929b042788bd46c6"), "tname": "sayali", "dno": 103, "dname": "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
{ "id": ObjectId("5d68aac2929b042788bd46c7"), "tname": "shaikh", "dno": 104, "dname": "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z")}
{ "_id" : ObjectId("5d68aaf8929b042788bd46c8"), "tname" : "jagtap", "dno" : 105, "dname" : "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
{ "id": ObjectId("5d70acbf3a696c644c18b6f2"), "experience": 10, "tname": "praveen" }
9. Update the department of all the teachers working in IT department to COMP
> db.teachers.find({})
{ "_id" : ObjectId("5d68a54e929b042788bd46c1"), "tname" : "rahul", "dno" : 101, "dname" : "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "id": ObjectId("5d68a62d929b042788bd46c2"), "tname": "sonali", "dno": 102, "dname": "it",
"experience": 3, "salary": 20000, "doj": ISODate("2005-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{" id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
```

```
{ "_id" : ObjectId("5d68a928929b042788bd46c5"), "tname" : "reema", "dno" : 103, "dname" : "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "_id" : ObjectId("5d68a994929b042788bd46c6"), "tname" : "sayali", "dno" : 103, "dname" : "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
{ "id": ObjectId("5d68aac2929b042788bd46c7"), "tname": "shaikh", "dno": 104, "dname": "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "id": ObjectId("5d68aaf8929b042788bd46c8"), "tname": "jagtap", "dno": 105, "dname": "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
{ "id": ObjectId("5d70acbf3a696c644c18b6f2"), "experience": 10, "tname": "praveen" }
{ "id": ObjectId("5d70ae9da11857cf2efb5c3e"), "tname": "kulloli", "dno": 102, "dname": "it", "experience"
: 4, "salary" : 40000, "doj" : ISODate("1998-12-22T18:30:00Z") }
{ "_id" : ObjectId("5d70aec5a11857cf2efb5c3f"), "tname" : "gokhale", "dno" : 102, "dname" : "it", "experience"
: 1, "salary" : 400, "doj" : ISODate("1999-03-18T18:30:00Z") }
> db.teachers.update({dname:'it'},{$set:{dname:'comp',dno:101}},{multi:'true'})
> db.teachers.find({})
{ " id": ObjectId("5d68a54e929b042788bd46c1"), "tname": "rahul", "dno": 101, "dname": "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a62d929b042788bd46c2"), "dname" : "comp", "dno" : 101, "doj" : ISODate("2005-05-
31T18:30:00Z"), "experience": 3, "salary": 20000, "tname": "sonali" }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a724929b042788bd46c4"), "tname" : "ashley", "dno" : 101, "dname" : "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{" id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "dno": 103, "dname": "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "_id" : ObjectId("5d68a994929b042788bd46c6"), "tname" : "sayali", "dno" : 103, "dname" : "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
{ "_id" : ObjectId("5d68aac2929b042788bd46c7"), "tname" : "shaikh", "dno" : 104, "dname" : "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "id": ObjectId("5d68aaf8929b042788bd46c8"), "tname": "jagtap", "dno": 105, "dname": "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
{ "id": ObjectId("5d70acbf3a696c644c18b6f2"), "experience": 10, "tname": "praveen" }
{ "_id" : ObjectId("5d70ae9da11857cf2efb5c3e"), "dname" : "comp", "dno" : 101, "doj" : ISODate("1998-12-
22T18:30:00Z"), "experience": 4, "salary": 40000, "tname": "kulloli" }
```

```
{ "_id" : ObjectId("5d70aec5a11857cf2efb5c3f"), "dname" : "comp", "dno" : 101, "doj" : ISODate("1999-03-
18T18:30:00Z"), "experience": 1, "salary": 400, "tname": "gokhale" }
10. find the teachers name and their experience from teachers collection
> db.teachers.find({})
{ "id": ObjectId("5d68a54e929b042788bd46c1"), "tname": "rahul", "dno": 101, "dname": "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{" id": ObjectId("5d68a62d929b042788bd46c2"), "dname": "comp", "dno": 101, "doj": ISODate("2005-05-
31T18:30:00Z"), "experience": 3, "salary": 20000, "tname": "sonali" }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{" id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "dno": 103, "dname": "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "id": ObjectId("5d68a994929b042788bd46c6"), "tname": "sayali", "dno": 103, "dname": "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
{ "_id" : ObjectId("5d68aac2929b042788bd46c7"), "tname" : "shaikh", "dno" : 104, "dname" : "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "_id" : ObjectId("5d68aaf8929b042788bd46c8"), "tname" : "jagtap", "dno" : 105, "dname" : "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z")}
{ "_id" : ObjectId("5d70acbf3a696c644c18b6f2"), "experience" : 10, "tname" : "praveen" }
{" id": ObjectId("5d70ae9da11857cf2efb5c3e"), "dname": "comp", "dno": 101, "doj": ISODate("1998-12-
22T18:30:00Z"), "experience": 4, "salary": 40000, "tname": "kulloli" }
{" id": ObjectId("5d70aec5a11857cf2efb5c3f"), "dname": "comp", "dno": 101, "doj": ISODate("1999-03-
18T18:30:00Z"), "experience" : 1, "salary" : 400, "tname" : "gokhale" }
> db.teachers.find({},{tname:1,experience:1})
{ "_id" : ObjectId("5d68a54e929b042788bd46c1"), "tname" : "rahul", "experience" : 5 }
{ "id": ObjectId("5d68a62d929b042788bd46c2"), "experience": 3, "tname": "sonali" }
{ "_id" : ObjectId("5d68a696929b042788bd46c3"), "tname" : "sudeep", "experience" : 15 }
{ "id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "experience": 1 }
{ "id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "experience": 4 }
{ "id": ObjectId("5d68a994929b042788bd46c6"), "tname": "sayali", "experience": 2 }
{ "_id" : ObjectId("5d68aac2929b042788bd46c7"), "tname" : "shaikh", "experience" : 7 }
{ "_id" : ObjectId("5d68aaf8929b042788bd46c8"), "tname" : "jagtap", "experience" : 6 }
```

```
{ "_id" : ObjectId("5d70acbf3a696c644c18b6f2"), "experience" : 10, "tname" : "praveen" }
{ "_id" : ObjectId("5d70ae9da11857cf2efb5c3e"), "experience" : 4, "tname" : "kulloli" }
{ " id" : ObjectId("5d70aec5a11857cf2efb5c3f"), "experience" : 1, "tname" : "gokhale" }
11. Using Save() method insert one entry in department collection
db.createCollection('department')
{ "ok" : 1 }
db.department.save({dno:101,dname:'comp'})
> db.department.find({})
{ "_id" : ObjectId("5d70b0cea11857cf2efb5c40") }
{ "_id" : ObjectId("5d70b0fba11857cf2efb5c41"), "dno" : 101, "dname" : "comp" }
> db.department.save({dname:'it',dno:102})
> db.department.find({})
{ "_id" : ObjectId("5d70b0cea11857cf2efb5c40") }
{ " id" : ObjectId("5d70b0fba11857cf2efb5c41"), "dno" : 101, "dname" : "comp" }
{ "_id" : ObjectId("5d70b19aa11857cf2efb5c42"), "dname" : "it", "dno" : 102 }
> db.department.save({dname:'entc',dno:103})
> db.department.save({dname:'mech',dno:104})
> db.department.save({dname:'ce',dno:105})
> db.department.find({})
{ "_id" : ObjectId("5d70b0cea11857cf2efb5c40") }
{ " id" : ObjectId("5d70b0fba11857cf2efb5c41"), "dno" : 101, "dname" : "comp" }
{ "_id" : ObjectId("5d70b19aa11857cf2efb5c42"), "dname" : "it", "dno" : 102 }
{ "_id" : ObjectId("5d70b1baa11857cf2efb5c43"), "dname" : "entc", "dno" : 103 }
{ "_id" : ObjectId("5d70b1cea11857cf2efb5c44"), "dname" : "mech", "dno" : 104 }
{ "_id" : ObjectId("5d70b1dba11857cf2efb5c45"), "dname" : "ce", "dno" : 105 }
12. Using Save() method change the dept of teacher praveen to IT
> db.teachers.save({tname:'praveen',experience:10,dname:'it'})
> db.teachers.find({})
```

```
{ "_id" : ObjectId("5d68a54e929b042788bd46c1"), "tname" : "rahul", "dno" : 101, "dname" : "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a62d929b042788bd46c2"), "dname" : "comp", "dno" : 101, "doj" : ISODate("2005-05-
31T18:30:00Z"), "experience": 3, "salary": 20000, "tname": "sonali" }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{" id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{" id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "dno": 103, "dname": "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "id": ObjectId("5d68a994929b042788bd46c6"), "tname": "sayali", "dno": 103, "dname": "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
{ "id": ObjectId("5d68aac2929b042788bd46c7"), "tname": "shaikh", "dno": 104, "dname": "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "id": ObjectId("5d68aaf8929b042788bd46c8"), "tname": "jagtap", "dno": 105, "dname": "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z")}
{ "id": ObjectId("5d70acbf3a696c644c18b6f2"), "experience": 10, "tname": "praveen" }
{" id": ObjectId("5d70ae9da11857cf2efb5c3e"), "dname": "comp", "dno": 101, "doj": ISODate("1998-12-
22T18:30:00Z"), "experience": 4, "salary": 40000, "tname": "kulloli" }
{ "id": ObjectId("5d70aec5a11857cf2efb5c3f"), "dname": "comp", "dno": 101, "doj": ISODate("1999-03-
18T18:30:00Z"), "experience": 1, "salary": 400, "tname": "gokhale" }
{ "id": ObjectId("5d70b2c8a11857cf2efb5c46"), "tname": "praveen", "experience": 10, "dname": "it" }
> db.teachers.save({" id":
ObjectId("5d70acbf3a696c644c18b6f2"),tname:'praveen',experience:10,dname:'it'})
> db.teachers.find({})
{ "id": ObjectId("5d68a54e929b042788bd46c1"), "tname": "rahul", "dno": 101, "dname": "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a62d929b042788bd46c2"), "dname" : "comp", "dno" : 101, "doj" : ISODate("2005-05-
31T18:30:00Z"), "experience": 3, "salary": 20000, "tname": "sonali" }
{ "_id" : ObjectId("5d68a696929b042788bd46c3"), "tname" : "sudeep", "dno" : 101, "dname" : "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ "_id" : ObjectId("5d68a928929b042788bd46c5"), "tname" : "reema", "dno" : 103, "dname" : "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z")}
{ "id": ObjectId("5d68a994929b042788bd46c6"), "tname": "sayali", "dno": 103, "dname": "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
```

```
{ "id": ObjectId("5d68aac2929b042788bd46c7"), "tname": "shaikh", "dno": 104, "dname": "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "_id" : ObjectId("5d68aaf8929b042788bd46c8"), "tname" : "jagtap", "dno" : 105, "dname" : "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
{" id": ObjectId("5d70ae9da11857cf2efb5c3e"), "dname": "comp", "dno": 101, "doj": ISODate("1998-12-
22T18:30:00Z"), "experience": 4, "salary": 40000, "tname": "kulloli" }
{ "id": ObjectId("5d70aec5a11857cf2efb5c3f"), "dname": "comp", "dno": 101, "doj": ISODate("1999-03-
18T18:30:00Z"), "experience": 1, "salary": 400, "tname": "gokhale" }
{ "id": ObjectId("5d70b2c8a11857cf2efb5c46"), "tname": "praveen", "experience": 10, "dname": "it" }
{ "id": ObjectId("5d70acbf3a696c644c18b6f2"), "tname": "praveen", "experience": 10, "dname": "it" }
13. Delete all the documents from teachers collection having IT dept.
> db.teachers.find({})
{ "_id" : ObjectId("5d68a54e929b042788bd46c1"), "tname" : "rahul", "dno" : 101, "dname" : "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{" id": ObjectId("5d68a62d929b042788bd46c2"), "dname": "comp", "dno": 101, "doj": ISODate("2005-05-
31T18:30:00Z"), "experience": 3, "salary": 20000, "tname": "sonali" }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "dno": 103, "dname": "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "id": ObjectId("5d68a994929b042788bd46c6"), "tname": "sayali", "dno": 103, "dname": "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z")}
{ "id": ObjectId("5d68aac2929b042788bd46c7"), "tname": "shaikh", "dno": 104, "dname": "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "id": ObjectId("5d68aaf8929b042788bd46c8"), "tname": "jagtap", "dno": 105, "dname": "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
{" id": ObjectId("5d70ae9da11857cf2efb5c3e"), "dname": "comp", "dno": 101, "doj": ISODate("1998-12-
22T18:30:00Z"), "experience": 4, "salary": 40000, "tname": "kulloli" }
{" id": ObjectId("5d70aec5a11857cf2efb5c3f"), "dname": "comp", "dno": 101, "doj": ISODate("1999-03-
18T18:30:00Z"), "experience" : 1, "salary" : 400, "tname" : "gokhale" }
{ "id": ObjectId("5d70b2c8a11857cf2efb5c46"), "tname": "praveen", "experience": 10, "dname": "it" }
{ "_id" : ObjectId("5d70acbf3a696c644c18b6f2"), "tname" : "praveen", "experience" : 10, "dname" : "it" }
> db.teachers.remove({dname:'it'})
```

```
> db.teachers.find({})
{ "_id" : ObjectId("5d68a54e929b042788bd46c1"), "tname" : "rahul", "dno" : 101, "dname" : "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{" id": ObjectId("5d68a62d929b042788bd46c2"), "dname": "comp", "dno": 101, "doj": ISODate("2005-05-
31T18:30:00Z"), "experience" : 3, "salary" : 20000, "tname" : "sonali" }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ " id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "dno": 103, "dname": "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z")}
{ "_id" : ObjectId("5d68a994929b042788bd46c6"), "tname" : "sayali", "dno" : 103, "dname" : "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
{ "_id" : ObjectId("5d68aac2929b042788bd46c7"), "tname" : "shaikh", "dno" : 104, "dname" : "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "id": ObjectId("5d68aaf8929b042788bd46c8"), "tname": "jagtap", "dno": 105, "dname": "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
{" id": ObjectId("5d70ae9da11857cf2efb5c3e"), "dname": "comp", "dno": 101, "doj": ISODate("1998-12-
22T18:30:00Z"), "experience": 4, "salary": 40000, "tname": "kulloli" }
{ "id": ObjectId("5d70aec5a11857cf2efb5c3f"), "dname": "comp", "dno": 101, "doj": ISODate("1999-03-
18T18:30:00Z"), "experience": 1, "salary": 400, "tname": "gokhale" }
14. display with pretty() method, the first 3 documents in teachers collection in ascending order
> db.teachers.find({})
{" id": ObjectId("5d68a54e929b042788bd46c1"), "tname": "rahul", "dno": 101, "dname": "comp",
"experience": 5, "salary": 50000, "doj": ISODate("1998-12-31T18:30:00Z") }
{" id": ObjectId("5d68a62d929b042788bd46c2"), "dname": "comp", "dno": 101, "doj": ISODate("2005-05-
31T18:30:00Z"), "experience": 3, "salary": 20000, "tname": "sonali" }
{ "id": ObjectId("5d68a696929b042788bd46c3"), "tname": "sudeep", "dno": 101, "dname": "comp",
"experience": 15, "salary": 200000, "doj": ISODate("1997-05-31T18:30:00Z") }
{ "id": ObjectId("5d68a724929b042788bd46c4"), "tname": "ashley", "dno": 101, "dname": "comp",
"experience": 1, "salary": 2000, "doj": ISODate("2018-05-31T18:30:00Z") }
{ " id": ObjectId("5d68a928929b042788bd46c5"), "tname": "reema", "dno": 103, "dname": "entc",
"experience": 4, "salary": 30000, "doj": ISODate("2012-12-11T18:30:00Z") }
{ "_id" : ObjectId("5d68a994929b042788bd46c6"), "tname" : "sayali", "dno" : 103, "dname" : "entc",
"experience": 2, "salary": 10000, "doj": ISODate("2017-08-22T18:30:00Z") }
```

```
{ "_id" : ObjectId("5d68aac2929b042788bd46c7"), "tname" : "shaikh", "dno" : 104, "dname" : "mech",
"experience": 7, "salary": 100000, "doj": ISODate("2000-07-28T18:30:00Z") }
{ "_id" : ObjectId("5d68aaf8929b042788bd46c8"), "tname" : "jagtap", "dno" : 105, "dname" : "ce",
"experience": 6, "salary": 70000, "doj": ISODate("2002-07-19T18:30:00Z") }
{ "_id" : ObjectId("5d70ae9da11857cf2efb5c3e"), "dname" : "comp", "dno" : 101, "doj" : ISODate("1998-12-
22T18:30:00Z"), "experience": 4, "salary": 40000, "tname": "kulloli" }
{ "id": ObjectId("5d70aec5a11857cf2efb5c3f"), "dname": "comp", "dno": 101, "doj": ISODate("1999-03-
18T18:30:00Z"), "experience": 1, "salary": 400, "tname": "gokhale" }
db.teachers.find().limit(3).pretty().sort({tname:1})
{
        "_id": ObjectId("5d68a724929b042788bd46c4"),
        "tname": "ashley",
        "dno": 101,
        "dname": "comp",
        "experience": 1,
        "salary": 2000,
        "doj": ISODate("2018-05-31T18:30:00Z")
}
{
        " id": ObjectId("5d70aec5a11857cf2efb5c3f"),
        "dname": "comp",
        "dno": 101,
        "doj": ISODate("1999-03-18T18:30:00Z"),
        "experience": 1,
        "salary": 400,
        "tname": "gokhale"
}
{
        "_id": ObjectId("5d68aaf8929b042788bd46c8"),
        "tname": "jagtap",
```

```
"dno": 105,

"dname": "ce",

"experience": 6,

"salary": 70000,

"doj": ISODate("2002-07-19T18:30:00Z")
```