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## **Assignment 9**

Design and develop MongoDB queries using CRUD operations. (Use CRUD operations, SAVE method, logical operators).

Queries (with outputs) -

mydb> db.createCollection("mycollection")

```
mydb> db.createCollection("mycollection")
{ ok: 1 }
```

2. mydb> db.mycollection.insertOne({name:"ANUSHREE",age:20})

```
mydb> db.mycollection.insertOne({name:"ANUSHREE",age:20})
{
   acknowledged: true,
   insertedId: ObjectId('66ea52333a3ba29b03964033')
}
```

3. mydb> db.mycollection.find({});

4. mydb>db.mycollection.insertMany([{name:"DHANSHREE",age:21}, {name:"SHREEJA",age:19},{name:"ADITYA",age:20}])

```
mydb> db.mycollection.insertMany([{name:"DHANSHREE",age:21},{name:"SHREEJA",age:19},{
    name:"ADITYA",age:20}])
{
    acknowledged: true,
    insertedIds: {
        '0': ObjectId('66ea52ae3a3ba29b03964034'),
        '1': ObjectId('66ea52ae3a3ba29b03964035'),
        '2': ObjectId('66ea52ae3a3ba29b03964036')
    }
}
```

5. mydb> db.mycollection.findOne({name: "ANUSHREE"})

```
mydb> db.mycollection.findOne({name:"ANUSHREE"})
{
    _id: ObjectId('66ea52333a3ba29b03964033'),
    name: 'ANUSHREE',
    age: 20
}
```

6. mydb> db.mycollection.find({ age: { \$gt: 19 } });

7. mydb> db.mycollection.updateOne({name: "ANUSHREE"},{\$set:{age:21}});

```
mydb> db.mycollection.updateOne({name:"ANUSHREE"},{$set:{age:21}});
 acknowledged: true,
 insertedId: null,
 matchedCount: 1,
 modifiedCount: 1,
 upsertedCount: 0
mydb> db.mycollection.find().pretty();
    _id: ObjectId('66ea52333a3ba29b03964033'),
   name: 'ANUSHREE',
   age: 21
   _id: ObjectId('66ea52ae3a3ba29b03964034'),
   name: 'DHANSHREE',
   age: 21
   _id: ObjectId('66ea52ae3a3ba29b03964035'),
   name: 'SHREEJA',
   age: 19
   _id: ObjectId('66ea52ae3a3ba29b03964036'),
name: 'ADITYA',
   age: 20
```

## 8. mydb> db.mycollection.updateMany({},{\$inc:{age:1}});

```
mydb> db.mycollection.updateMany({},{$inc:{age:1}});
  acknowledged: true,
  insertedId: null,
  matchedCount: 4,
 modifiedCount: 4,
  upsertedCount: 0
mydb> db.mycollection.find().pretty();
    _id: ObjectId('66ea52333a3ba29b03964033'),
    name: 'ANUSHREE',
    age: 22
    _id: ObjectId('66ea52ae3a3ba29b03964034'),
    name: 'DHANSHREE',
    age: 22
    _id: ObjectId('66ea52ae3a3ba29b03964035'),
    name: 'SHREEJA',
    age: 20
     id: ObjectId('66ea52ae3a3ba29b03964036'),
    name: 'ADITYA',
    age: 21
```

9. mydb> db.mycollection.deleteOne({name: "SHREEJA"});

```
mydb> db.mycollection.deleteOne({name:"SHREEJA"});
{    acknowledged: true, deletedCount: 1 }
mydb> db.mycollection.find().pretty();
[
{
    _id: ObjectId('66ea52333a3ba29b03964033'),
    name: 'ANUSHREE',
    age: 22
},
{
    _id: ObjectId('66ea52ae3a3ba29b03964034'),
    name: 'DHANSHREE',
    age: 22
},
{
    _id: ObjectId('66ea52ae3a3ba29b03964036'),
    name: 'ADITYA',
    age: 21
}
```

10. mydb> db.mycollection.insertOne({name: "HARSHITA",age:20})

```
mydb> db.mycollection.insertOne({name:"HARSHITA",age:20})
 acknowledged: true,
 insertedId: ObjectId('66ea55303a3ba29b03964037')
mydb> db.mycollection.find().pretty();
   _id: ObjectId('66ea52333a3ba29b03964033'),
   name: 'ANUSHREE',
   age: 22
    id: ObjectId('66ea52ae3a3ba29b03964034'),
   name: 'DHANSHREE',
   age: 22
    id: ObjectId('66ea52ae3a3ba29b03964036'),
   name: 'ADITYA',
   age: 21
    _id: ObjectId('66ea55303a3ba29b03964037'),
   name: 'HARSHITA',
    age: 20
```

11. mydb> db.mycollection.deleteMany({age:{\$lt:21}})

```
mydb> db.mycollection.deleteMany({age:{$lt:21}})
{    acknowledged: true, deletedCount: 1 }
mydb> db.mycollection.find().pretty();
[
    {
        id: ObjectId('66ea52333a3ba29b03964033'),
        name: 'ANUSHREE',
        age: 22
    },
    {
        id: ObjectId('66ea52ae3a3ba29b03964034'),
        name: 'DHANSHREE',
        age: 22
    },
    {
        id: ObjectId('66ea52ae3a3ba29b03964036'),
        name: 'ADITYA',
        age: 21
    }
}
```

12. mydb> db.mycollection.find({\$and:[{name:"ADITYA"},{age:21}]});

13. mydb> db.mycollection.find({\$or:[{name:"ADITYA"},{age:23}]});

14. mydb> db.mycollection.countDocuments({});

```
mydb> db.mycollection.countDocuments({});
3
```

15. mydb> db.mycollection.countDocuments({age:{\$gt:21}});

```
mydb> db.mycollection.countDocuments({age:{$gt:21}});
2 __
```