

```
*****
*MongoDB Queries: Design and Develop MongoDB Queries using CRUD operations.*
*
*(Use CRUD operations, SAVE method, logical operators etc)
*****
```

```
test> show dbs;
admin    40.00 KiB
blog     16.00 KiB
config   72.00 KiB
local    40.00 KiB
```

```
test> use studentdb;
switched to db studentdb
```

```
studentdb> db.createCollection("student");
{ ok: 1 }
```

```
studentdb> show collections;
student
```

```
studentdb> db.student.insertOne({
... name:"Shital",
... age: 19,
... city: "Sinnar"});
{
  acknowledged: true,
  insertedId: ObjectId("652925646bb65717188634fd")
}
```

```
studentdb> db.student.insertMany([
{ name:"Alok", age:20, city:"Nashik" },
{ name:"Sanju", age:18, city:"Nagar" },
{ name:"Anjali", age:19, city:"Niphad" },
{ name:"Sakshi",age:19,city:"Nashik"},
{ name: "Harshada", age:20,city:"Nashik"}]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("6529270d6bb65717188634fe"),
    '1': ObjectId("6529270d6bb65717188634ff"),
    '2': ObjectId("6529270d6bb6571718863500"),
    '3': ObjectId("6529270d6bb6571718863501"),
    '4': ObjectId("6529270d6bb6571718863502")
  }
}
```

```
studentdb> db.student.find();
[
  {
    _id: ObjectId("652925646bb65717188634fd"),
    name: 'Shital',
    age: 19,
    city: 'Sinnar'
```

```

    },
    {
      _id: ObjectId("6529270d6bb65717188634fe"),
      name: 'Alok',
      age: 20,
      city: 'Nashik'
    },
    {
      _id: ObjectId("6529270d6bb65717188634ff"),
      name: 'Sanju',
      age: 18,
      city: 'Nagar'
    },
    {
      _id: ObjectId("6529270d6bb6571718863500"),
      name: 'Anjali',
      age: 19,
      city: 'Niphad'
    },
    {
      _id: ObjectId("6529270d6bb6571718863501"),
      name: 'Sakshi',
      age: 19,
      city: 'Nashik'
    },
    {
      _id: ObjectId("6529270d6bb6571718863502"),
      name: 'Harshada',
      age: 20,
      city: 'Nashik'
    }
  ]

```

```
studentdb> db.student.find().limit(3);
```

```

[
  {
    _id: ObjectId("652925646bb65717188634fd"),
    name: 'Shital',
    age: 19,
    city: 'Sinnar'
  },
  {
    _id: ObjectId("6529270d6bb65717188634fe"),
    name: 'Alok',
    age: 20,
    city: 'Nashik'
  },
  {
    _id: ObjectId("6529270d6bb65717188634ff"),
    name: 'Sanju',
    age: 18,
    city: 'Nagar'
  }
]

```

```
studentdb> db.student.find({ age: { $gt: 19 } },
{ name: 1, age: 1 })
[
  { _id: ObjectId("6529270d6bb65717188634fe"),
    name: 'Alok', age: 20 },
  {
    _id: ObjectId("6529270d6bb6571718863502"),
    name: 'Harshada',
    age: 20
  }
]
```

```
studentdb> db.student.findOne({name:"Sanju"});
{
  _id: ObjectId("6529270d6bb65717188634ff"),
  name: 'Sanju',
  age: 18,
  city: 'Nagar'
}
```

```
studentdb> db.student.updateOne({name:"Anjali"},
{$set:{email:"anjali@gmail.com"}});
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
studentdb> db.student.findOne({name:"Anjali"});
{
  _id: ObjectId("6529270d6bb6571718863500"),
  name: 'Anjali',
  age: 19,
  city: 'Niphad',
  email: 'anjali@gmail.com'
}
```

```
studentdb> db.student.updateMany(
{age: {$gt:19} },
{$set: {city: "Pune"} });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 2,
  modifiedCount: 2,
  upsertedCount: 0
}
studentdb> db.student.find();
[
  {
    _id: ObjectId("652925646bb65717188634fd"),
```

```

    name: 'Shital',
    age: 19,
    city: 'Sinnar'
  },
  {
    _id: ObjectId("6529270d6bb65717188634fe"),
    name: 'Alok',
    age: 20,
    city: 'Pune'
  },
  {
    _id: ObjectId("6529270d6bb65717188634ff"),
    name: 'Sanju',
    age: 18,
    city: 'Nagar'
  },
  {
    _id: ObjectId("6529270d6bb6571718863500"),
    name: 'Anjali',
    age: 19,
    city: 'Niphad',
    email: 'anjali@gmail.com'
  },
  {
    _id: ObjectId("6529270d6bb6571718863501"),
    name: 'Sakshi',
    age: 19,
    city: 'Nashik'
  },
  {
    _id: ObjectId("6529270d6bb6571718863502"),
    name: 'Harshada',
    age: 20,
    city: 'Pune'
  }
]

```

```

studentdb> db.student.deleteOne({age:19});
{ acknowledged: true, deletedCount: 1 }
studentdb> db.student.find();
[
  {
    _id: ObjectId("6529270d6bb65717188634fe"),
    name: 'Alok',
    age: 20,
    city: 'Pune'
  },
  {
    _id: ObjectId("6529270d6bb65717188634ff"),
    name: 'Sanju',
    age: 18,
    city: 'Nagar'
  },
  {

```

```

    _id: ObjectId("6529270d6bb6571718863500"),
    name: 'Anjali',
    age: 19,
    city: 'Niphad',
    email: 'anjali@gmail.com'
  },
  {
    _id: ObjectId("6529270d6bb6571718863501"),
    name: 'Sakshi',
    age: 19,
    city: 'Nashik'
  },
  {
    _id: ObjectId("6529270d6bb6571718863502"),
    name: 'Harshada',
    age: 20,
    city: 'Pune'
  }
]

```

```

studentdb> db.student.deleteMany({age:20});
{ acknowledged: true, deletedCount: 2 }
studentdb> db.student.find();
[
  {
    _id: ObjectId("6529270d6bb65717188634ff"),
    name: 'Sanju',
    age: 18,
    city: 'Nagar'
  },
  {
    _id: ObjectId("6529270d6bb6571718863500"),
    name: 'Anjali',
    age: 19,
    city: 'Niphad',
    email: 'anjali@gmail.com'
  },
  {
    _id: ObjectId("6529270d6bb6571718863501"),
    name: 'Sakshi',
    age: 19,
    city: 'Nashik'
  }
]

```

```

studentdb> db.student.find({age:{$lte: 18}});
[
  {
    _id: ObjectId("6529270d6bb65717188634ff"),
    name: 'Sanju',
    age: 18,
    city: 'Nagar'
  }
]

```

```

studentdb> db.student.find({age:{$gte: 19}});
[
  {
    _id: ObjectId("6529270d6bb6571718863500"),
    name: 'Anjali',
    age: 19,
    city: 'Niphad',
    email: 'anjali@gmail.com'
  },
  {
    _id: ObjectId("6529270d6bb6571718863501"),
    name: 'Sakshi',
    age: 19,
    city: 'Nashik'
  }
]
studentdb> db.student.find({age:{$in: 18}});
MongoServerError: $in needs an array
studentdb> db.student.find({age:{$in: [18,19,20]}});
[
  {
    _id: ObjectId("6529270d6bb65717188634ff"),
    name: 'Sanju',
    age: 18,
    city: 'Nagar'
  },
  {
    _id: ObjectId("6529270d6bb6571718863500"),
    name: 'Anjali',
    age: 19,
    city: 'Niphad',
    email: 'anjali@gmail.com'
  },
  {
    _id: ObjectId("6529270d6bb6571718863501"),
    name: 'Sakshi',
    age: 19,
    city: 'Nashik'
  }
]
studentdb> db.student.find({age:{$nin: [19,20]}});
[
  {
    _id: ObjectId("6529270d6bb65717188634ff"),
    name: 'Sanju',
    age: 18,
    city: 'Nagar'
  }
]
studentdb>

```