

1) use testDB;

Microsoft Windows [Version 10.0.26200.7462]
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```
C:\Users\suhel>mongosh
Current Mongosh Log ID: 6969b469bbca6d68c91e2620
Connecting to:      mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000&appName=mongosh
Using MongoDB:      8.2.3
Using Mongosh:       2.5.10
```

For mongosh info see: <https://www.mongodb.com/docs/mongodb-shell/>

The server generated these startup warnings when booting
2026-01-14T09:48:34.194+05:30: Access control is not enabled for the database. Read and write access to data

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

2) db.users.insertMany([

```
{ name: "Suhel", age: 25, email: "suhel@gmail.com", city: "Delhi" },
```

```
{ name: "Ali", age: 22, email: "ali@gmail.com", city: "Mumbai" },
```

```
{ name: "Khan", age: 28, email: "khan@gmail.com", city: "Delhi" }
```

```
]);
```

```
testDB> db.users.insertMany([
...   { name: "Suhel", age: 25, email: "suhel@gmail.com", city: "Delhi" },
...   { name: "Ali", age: 22, email: "ali@gmail.com", city: "Mumbai" },
...   { name: "Khan", age: 28, email: "khan@gmail.com", city: "Delhi" }
... ]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('6969b4babbca6d68c91e2621'),
    '1': ObjectId('6969b4babbca6d68c91e2622'),
    '2': ObjectId('6969b4babbca6d68c91e2623')
  }
}
```

3) db.users.createIndex({ name: 1 });

```
testDB> db.users.createIndex({ name: 1 });
name_1
testDB> db.users.find({ name: "Suhel" });
[
  {
    _id: ObjectId('6969b4babbca6d68c91e2621'),
    name: 'Suhel',
    age: 25,
    email: 'suhel@gmail.com',
    city: 'Delhi'
  }
]
testDB> |
```

4) db.users.createIndex({ city: 1, age: -1 });

```
testDB> db.users.createIndex({ city: 1, age: -1 });
city_1_age_-1
testDB>
```

5) db.users.find({ city: "Delhi", age: { \$gt: 24 } });

```
testDB> db.users.createIndex({ city: 1, age: -1 });
city_1_age_-1
testDB> db.users.find({ city: "Delhi", age: { $gt: 24 } });
[
  {
    _id: ObjectId('6969b4babbca6d68c91e2623'),
    name: 'Khan',
    age: 28,
    email: 'khan@gmail.com',
    city: 'Delhi'
  },
  {
    _id: ObjectId('6969b4babbca6d68c91e2621'),
    name: 'Suhel',
    age: 25,
    email: 'suhel@gmail.com',
    city: 'Delhi'
  }
]
```

6) db.users.createIndex({ email: 1 }, { unique: true }); // Prevents duplicate email entries

```
testDB> db.users.createIndex({ email: 1 }, { unique: true });
email_1
testDB>
```