DBMS-Lab Exercise 10

1. Create a database named your rollno_section (i.e. P20_8784_4A).

```
test> show dbs;
admin    40.00 KiB
config   12.00 KiB
local    40.00 KiB
test> use rollno_section P19_0060_4A
switched to db rollno_section
rollno_section> ;
```

2. Create a collection named users.

```
rollno_section> db.createCollection("users");
{ ok: 1 }
rollno_section> show collections;
users
rollno_section>
```

3. Insert the following record in the user's collection.

```
rollno_section> db.users.insertMany([
...     {
...           "username": "Ali",
...           "password": "def321",
...           "email": "ali123@yahoo.com",
...           "DOB": ISODate("1996-03-04T00:00:00Z"),
...           "Address": "Peshawar",
...           "Contact": "+923332233322"
...     },
...     {
...           "username": "Haroon",
...           "password": "fast123",
...           "email": "haroon@gmail.com",
...           "DOB": null,
...           "Address": "Karachi",
...           "Contact": "-"
...     },
...     {
...           "username": "Zain",
...           "password": "Abc123",
...           "email": "zain@gmail.com",
...           "DOB": ISODate("1997-02-13T00:00:00Z"),
...           "Address": "Islamabad",
...           "Contact": "-"
...     },
...     {
...           "username": "Atif",
...           "password": "Qwe123",
...           "email": "atif@gmail.com",
...           "DOB": null,
...           "Address": "Islamabad",
...           "Contact": "+923139834276"
...     },
...     {
...           "username": "Noman",
...           "password": "def321",
...           "email": "noman@gmail.com",
...           "DOB": ISODate("1996-03-04T00:00:00Z"),
...           "Address": "Peshawar",
...           "Contact": "+923349056432"
...     }
... ])
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("643e5f05c828e2a61249a437"),
    '1': ObjectId("643e5f05c828e2a61249a438"),
    '2': ObjectId("643e5f05c828e2a61249a439"),
    '3': ObjectId("643e5f05c828e2a61249a43a"),
    '4': ObjectId("643e5f05c828e2a61249a43b")
  }
}
rollno_section>
```

4. Show all users list using find command.

```
rollno_section> db.users.find()
[
  {
    _id: ObjectId("643e5f05c828e2a61249a437"),
    username: 'Ali',
    password: 'def321',
    email: 'ali123@yahoo.com',
    DOB: ISODate("1996-03-04T00:00:00.000Z"),
    Address: 'Peshawar',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("643e5f05c828e2a61249a438"),
    username: 'Haroon',
    password: 'fast123',
    email: 'haroon@gmail.com',
    DOB: null,
    Address: 'Karachi',
    Contact: '-'
  },
  {
    _id: ObjectId("643e5f05c828e2a61249a439"),
    username: 'Zain',
    password: 'Abc123',
    email: 'zain@gmail.com',
    DOB: ISODate("1997-02-13T00:00:00.000Z"),
    Address: 'Islamabad',
    Contact: '-'
  },
  {
    _id: ObjectId("643e5f05c828e2a61249a43a"),
    username: 'Atif',
    password: 'Qwe123',
    email: 'atif@gmail.com',
    DOB: null,
    Address: 'Islamabad',
    Contact: '+923139834276'
  },
  {
    _id: ObjectId("643e5f05c828e2a61249a43b"),
    username: 'Noman',
    password: 'def321',
    email: 'noman@gmail.com',
    DOB: ISODate("1996-03-04T00:00:00.000Z"),
    Address: 'Peshawar',
    Contact: '+923349056432'
  }
]
rollno_section>
```

5. Show all users who lives in Islamabad.

```
rollno_section> db.users.find({ "Address": "Islamabad" }).pretty()
[
  {
    _id: ObjectId("643e5f05c828e2a61249a439"),
    username: 'Zain',
    password: 'Abc123',
    email: 'zain@gmail.com',
    DOB: ISODate("1997-02-13T00:00:00.000Z"),
    Address: 'Islamabad',
    Contact: '-'
  },
  {
    _id: ObjectId("643e5f05c828e2a61249a43a"),
    username: 'Atif',
    password: 'Qwe123',
    email: 'atif@gmail.com',
    DOB: null,
    Address: 'Islamabad',
    Contact: '+923139834276'
  }
]
rollno_section>
```

6. Show all the users who lives in Peshawar or in Karachi.

```
rollno_section> db.users.find({ "Address": { $in: [ "Peshawar", "Karachi" ] } }).pretty()
[
  {
    _id: ObjectId("643e5f05c828e2a61249a437"),
    username: 'Ali',
    password: 'def321',
    email: 'ali123@yahoo.com',
    DOB: ISODate("1996-03-04T00:00:00.000Z"),
    Address: 'Peshawar',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("643e5f05c828e2a61249a438"),
    username: 'Haroon',
    password: 'fast123',
    email: 'haroon@gmail.com',
    DOB: null,
    Address: 'Karachi',
    Contact: '-'
  },
  {
    _id: ObjectId("643e5f05c828e2a61249a43b"),
    username: 'Noman',
    password: 'def321',
    email: 'noman@gmail.com',
    DOB: ISODate("1996-03-04T00:00:00.000Z"),
    Address: 'Peshawar',
    Contact: '+923349056432'
  }
]
rollno_section>
```