

(CL2005) Database Systems Lab

Lab 11 Task

MongoDB Introduction

Exercises:

1:

```
test> use P200086_4A
switched to db P200086_4A
P200086_4A> 
```

2:

```
P200086_4A> db.createCollection("users")
{ ok: 1 }
```

3:

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
P200086_4A> db.users.insert(
...   [
...     {
...       username: "Ali",
...       password: "def321",
...       email: "abc123@yahoo.com",
...       DOB: "1996-03-04",
...       Address: "Peshawar",
...       Contact: "+923332233322",
...     },
...     {
...       username: "Haroon",
...       password: "fast123",
...       email: "xyz789@gmail.com",
...       DOB: "1996-03-04",
...       Address: "Karachi",
...       Contact: "+923332233322",
...     },
...     {
...       username: "Zain",
...       password: "Abc123",
...       email: "zain@gmail.com",
...       DOB: "1997-02-13",
...       Address: "Islamabad",
...       Contact: "+923332233322",
...     },
...     {
...       username: "Atif",
...       password: "Qwe123",
...       email: "atif@gmail.com",
...       DOB: "1997-02-13",
...       Address: "Islamabad",
...       Contact: "+923139834276",
...     },
...     {
...       username: "Noman",
...       password: "def321",
...       email: "abc123@yahoo.com",
...       DOB: "1996-03-04",
...       Address: "Peshawar",
...       Contact: "+923349056432",
...     }
...   ]
... )
```

3:Output

```
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId("62800be0cd3eaa7b40635735"),
    '1': ObjectId("62800be0cd3eaa7b40635736"),
    '2': ObjectId("62800be0cd3eaa7b40635737"),
    '3': ObjectId("62800be0cd3eaa7b40635738"),
    '4': ObjectId("62800be0cd3eaa7b40635739")
  }
}
```

4:

```
mongosh mongodb://127.0.0.1:27017/?directConnection=true&serverSelectionTimeoutMS=2000
P200086_4A> db.users.find()
[
  {
    _id: ObjectId("62800be0cd3eaa7b40635735"),
    username: 'Ali',
    password: 'def321',
    email: 'abc123@yahoo.com',
    DOB: '1996-03-04',
    Address: 'Peshawar',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635736"),
    username: 'Haroon',
    password: 'fast123',
    email: 'xyz789@gmail.com',
    DOB: '1996-03-04',
    Address: 'Karachi',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635737"),
    username: 'Zain',
    password: 'Abc123',
    email: 'zain@gmail.com',
    DOB: '1997-02-13',
    Address: 'Islamabad',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635738"),
    username: 'Atif',
    password: 'Qwe123',
    email: 'atif@gmail.com',
    DOB: '1997-02-13',
    Address: 'Islamabad',
    Contact: '+923139834276'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635739"),
    username: 'Noman',
    password: 'def321',
    email: 'abc123@yahoo.com',
    DOB: '1996-03-04',
    Address: 'Peshawar',
    Contact: '+923349856432'
  }
]
```

5:

```
P200086_4A> db.users.find(
...   {
...     Address: "Islamabad"
...   }
... )
[
  {
    _id: ObjectId("62800be0cd3eaa7b40635737"),
    username: 'Zain',
    password: 'Abc123',
    email: 'zain@gmail.com',
    DOB: '1997-02-13',
    Address: 'Islamabad',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635738"),
    username: 'Atif',
    password: 'Qwe123',
    email: 'atif@gmail.com',
    DOB: '1997-02-13',
    Address: 'Islamabad',
    Contact: '+923139834276'
  }
]
```

6:

```
abdul@abdul-HP-EliteBook-840-G4: ~
P200086_4A> db.users.find(
... {
...   Address:
...   {
...     $in:["Islamabad","Peshawar"]
...   }
... }
... )
[
  {
    _id: ObjectId("62800be0cd3eaa7b40635735"),
    username: 'Ali',
    password: 'def321',
    email: 'abc123@yahoo.com',
    DOB: '1996-03-04',
    Address: 'Peshawar',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635737"),
    username: 'Zain',
    password: 'Abc123',
    email: 'zain@gmail.com',
    DOB: '1997-02-13',
    Address: 'Islamabad',
    Contact: '+923332233322'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635738"),
    username: 'Atif',
    password: 'Qwe123',
    email: 'atif@gmail.com',
    DOB: '1997-02-13',
    Address: 'Islamabad',
    Contact: '+923139834276'
  },
  {
    _id: ObjectId("62800be0cd3eaa7b40635739"),
    username: 'Nonan',
    password: 'def321',
    email: 'abc123@yahoo.com',
    DOB: '1996-03-04',
    Address: 'Peshawar',
    Contact: '+923349856432'
  }
]
```