

Day-5 MongoDB Assignment

Submitted by Eada Jafrash

1. Starting MongoDB Shell

mongosh

2. Display Existing Databases

show dbs

3. Create and Switch to Database

use insDB

4. Create Collections

db.createCollection("Customers")

db.createCollection("Policies")

db.createCollection("Agents")

db.createCollection("PolicyAssignments")

db.createCollection("Claims")

```
test> use insDB
switched to db insDB
insDB> db.createCollection("Customers")
{ ok: 1 }
insDB> db.createCollection("Policies")
{ ok: 1 }
insDB> db.createCollection("PolicyAssignments")
{ ok: 1 }
insDB> db.createCollection("Claims")
{ ok: 1 }
insDB> db.createCollection("Agents")
{ ok: 1 }
```

5. Insert Documents into Customers Collection

```
db.Customers.insertOne({  
  id: 1,  
  FirstName: "Amit",  
  LastName: "Sharma",  
  DateOfBirth: "1990-05-10",  
  phone: "123457890",  
  email: "amit@gmail.com"  
})
```

```
db.Customers.insertOne({  
  id: 2,  
  FirstName: "Rahul",  
  LastName: "Varma",  
  DateOfBirth: "1991-06-17",  
  phone: "2313457890",  
  email: "rahul@gmail.com"  
})
```

```
db.Customers.insertOne({  
  id: 3,  
  FirstName: "Rohit",  
  LastName: "Sharma",  
  DateOfBirth: "1987-04-30",  
  phone: "9876543210",  
  email: "rohit@gmail.com"  
})
```

```
db.Customers.insertOne({
  id: 4,
  FirstName: "Virat",
  LastName: "Kohli",
  DateOfBirth: "1988-03-11",
  phone: "1029384756",
  email: "virat@gmail.com"
})
```

```
db.Customers.insertOne({
  id: 5,
  FirstName: "MS",
  LastName: "Dhoni",
  DateOfBirth: "1983-07-11",
  phone: "0192837465",
  email: "dhoni@gmail.com"
})
```

```
insDB> db.Customers.insertOne({})
{
  acknowledged: true,
  insertedId: ObjectId('69574fe40360208b17cdcdf6')
}
insDB> db.Customers.insertOne({id:1,FirstName:"Amit",LastName:"Sharma",DateOfBirth:"1990-05-10 00:00:00.000",phone:"123457890",email:"amit@gmail.com"})
{
  acknowledged: true,
  insertedId: ObjectId('695750950360208b17cdcdf7')
}
insDB> db.Customers.insertOne({id:2,FirstName:"Rahul",LastName:"Varma",DateOfBirth:"1991-06-17",phone:"2313457890",email:"2313457890"})
{
  acknowledged: true,
  insertedId: ObjectId('695750fd0360208b17cdcdf8')
}
insDB> db.Customers.insertOne({id:3,FirstName:"Rohit",LastName:"Sharma",DateOfBirth:"1987-04-30",phone:"9876543210",email:"rohit@gmail.com"})
{
  acknowledged: true,
  insertedId: ObjectId('695751570360208b17cdcdf9')
}
```

7. Insert Documents into Agents Collection

```
db.Agents.insertOne({
  AgentID: 101,
  AgentName: "Mahesh Babu",
  Phone: "193834949",
  City: "Hyderabad"
})
```

```
db.Agents.insertOne({
  AgentID: 102,
  AgentName: "Prabhas Raju",
  Phone: "1827364590",
  City: "Bangalore"
})
```

```
db.Agents.insertOne({
  AgentID: 103,
  AgentName: "Suresh Kumar",
  Phone: "9988776655",
  City: "Nagpur"
})
```

```
insDB> db.Agents.insertOne({AgentID:1,AgentName:"Mahesh Babu",Phone:"193834949",City:"193834949"})
{
  acknowledged: true,
  insertedId: ObjectId('695752b60360208b17cdcdfc')
}
insDB> db.Agents.insertOne({AgentID:2,AgentName:"Prabhas Raju",Phone:"1827364590",City:"Bangalore"})
{
  acknowledged: true,
  insertedId: ObjectId('695752d80360208b17cdcdfd')
}
insDB> db.Agents.insertOne({AgentID:3,AgentName:"Suresh Kumar",Phone:"9988776655",City:"Nagpur"})
{
  acknowledged: true,
  insertedId: ObjectId('695752fd0360208b17cdcdfc')
}
```

8. Insert Documents into Policies Collection

```
db.Policies.insertOne({
  PolicyID: 100,
  PolicyName: "JeevanSathi",
  PolicyType: "Marriage",
  PremiumAmount: 10000,
  DurationYears: 2
})
```

```
db.Policies.insertOne({  
  PolicyID: 200,  
  PolicyName: "Smart Term Plan Plus",  
  PolicyType: "Term Life",  
  PremiumAmount: 30000,  
  DurationYears: 8  
})
```

```
db.Policies.insertOne({  
  PolicyID: 300,  
  PolicyName: "ICICI Pru Signature",  
  PolicyType: "Unit Linked",  
  PremiumAmount: 20000,  
  DurationYears: 3  
})
```

```
db.Policies.insertOne({  
  PolicyID: 400,  
  PolicyName: "Car Insurance",  
  PolicyType: "Motor",  
  PremiumAmount: 25000,  
  DurationYears: 5  
})
```

```
db.Policies.insertOne({  
  PolicyID: 500,  
  PolicyName: "Bike Insurance",  
  PolicyType: "Motor",  
  PremiumAmount: 9000,  
  DurationYears: 3  
})
```

```
insDB> db.Policies.insertOne({PolicyID:100,PolicyName:"JeevanSathi",PolicyType:"Marriage",PremiumAmount:10000,DurationYears:2})  
{  
  acknowledged: true,  
  insertedId: ObjectId('6957535d0360208b17cdcdff')  
}  
insDB> db.Policies.insertOne({PolicyID:200,PolicyName:"Smart term plan plus",PolicyType:"Term Life",PremiumAmount:30000,DurationYears:8})  
{  
  acknowledged: true,  
  insertedId: ObjectId('695753910360208b17cdce00')  
}  
insDB> db.Policies.insertOne({PolicyID:300,PolicyName:"ICICI Pru Signature",PolicyType:"Unit Linked",PremiumAmount:20000,DurationYears:3})  
{  
  acknowledged: true,  
  insertedId: ObjectId('695753bd0360208b17cdce01')  
}  
insDB> db.Policies.insertOne({PolicyID:400,PolicyName:"Car Insurance",PolicyType:"Motor",PremiumAmount:25000,DurationYears:5})  
{  
  acknowledged: true,  
  insertedId: ObjectId('695753df0360208b17cdce02')  
}
```

9. Insert Documents into PolicyAssignments

```
db.PolicyAssignments.insertOne({  
  AssignmentID: 3000,  
  CustomerID: 3,  
  PolicyID: 400,  
  AgentID: 101,  
  StartDate: "2024-12-14",  
  EndDate: "2029-12-14"  
})
```

```
db.PolicyAssignments.insertOne({
  AssignmentID: 4000,
  CustomerID: 4,
  PolicyID: 500,
  AgentID: 101,
  StartDate: "2023-05-19",
  EndDate: "2027-12-19"
})
```

```
db.PolicyAssignments.insertOne({
  AssignmentID: 5000,
  CustomerID: 5,
  PolicyID: 200,
  AgentID: 102,
  StartDate: "2024-06-07",
  EndDate: "2026-06-07"
```

```
insDB> db.PolicyAssignments.insertOne({AssignmentID:3000,CustomerID:3,PolicyID:400,AgentID:101,StartDate:"2024-12-14",EndDate:"2024-12-14"})
{
  acknowledged: true,
  insertedId: ObjectId('695754e90360208b17cdce05')
}
insDB> db.PolicyAssignments.insertOne({AssignmentID:4000,CustomerID:4,PolicyID:500,AgentID:101,StartDate:"2023-05-19",EndDate:"2027-12-19"})
{
  acknowledged: true,
  insertedId: ObjectId('6957551c0360208b17cdce06')
}
insDB> db.PolicyAssignments.insertOne({AssignmentID:5000,CustomerID:5,PolicyID:200,AgentID:102,StartDate:"2024-06-07",EndDate:"2026-06-07"})
{
  acknowledged: true,
  insertedId: ObjectId('6957554f0360208b17cdce07')
}
```

```
})
```

10. Insert Documents into Claims

```
db.Claims.insertOne({  
  ClaimID: 303,  
  AssignmentID: 3000,  
  ClaimDate: "2025-01-23",  
  ClaimAmount: 20000,  
  ClaimStatus: "Pending"  
})
```

```
insDB> db.Claims.insertOne({ClaimID:303,AssignmentID:3000,ClaimDate:"2025-01-23",ClaimAmount:20000,ClaimStatus:"Pending"  
})  
{  
  acknowledged: true,  
  insertedId: ObjectId('695754830360208b17cdce04')  
}
```

11. Retrieve Documents from Collections

```
db.Customers.find()
```

```
insDB> db.Customers.find()  
[  
  { _id: ObjectId('69574fe40360208b17cdcdf6') },  
  {  
    _id: ObjectId('695750950360208b17cdcdf7'),  
    id: 1,  
    FirstName: 'Amit',  
    LastName: 'Sharma',  
    DateOfBirth: '1990-05-10 00:00:00.000',  
    phone: '123457890',  
    email: 'amit@gmail.com'  
  },  
  {  
    _id: ObjectId('695750fd0360208b17cdcdf8'),  
    id: 2,  
    FirstName: 'Rahul',  
    LastName: 'Varma',  
    DateOfBirth: '1991-06-17',  
    phone: '2313457890',  
    email: 'rahul@gmail.com'  
  },  
  {  
    _id: ObjectId('695751000360208b17cdcdf9'),  
    id: 3,  
    FirstName: 'Priya',  
    LastName: 'Singh',  
    DateOfBirth: '1992-08-05',  
    phone: '345678901',  
    email: 'priya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751030360208b17cdcdfa'),  
    id: 4,  
    FirstName: 'Ravi',  
    LastName: 'Kumar',  
    DateOfBirth: '1993-03-12',  
    phone: '456789012',  
    email: 'ravi@gmail.com'  
  },  
  {  
    _id: ObjectId('695751060360208b17cdcdfb'),  
    id: 5,  
    FirstName: 'Anjali',  
    LastName: 'Sharma',  
    DateOfBirth: '1994-07-20',  
    phone: '567890123',  
    email: 'anjali@gmail.com'  
  },  
  {  
    _id: ObjectId('695751090360208b17cdcdfc'),  
    id: 6,  
    FirstName: 'Vikram',  
    LastName: 'Singh',  
    DateOfBirth: '1995-09-01',  
    phone: '678901234',  
    email: 'vikram@gmail.com'  
  },  
  {  
    _id: ObjectId('6957510b0360208b17cdcdfd'),  
    id: 7,  
    FirstName: 'Sneha',  
    LastName: 'Kumar',  
    DateOfBirth: '1996-11-15',  
    phone: '789012345',  
    email: 'sneha@gmail.com'  
  },  
  {  
    _id: ObjectId('6957510d0360208b17cdcdfd'),  
    id: 8,  
    FirstName: 'Arjun',  
    LastName: 'Sharma',  
    DateOfBirth: '1997-02-28',  
    phone: '890123456',  
    email: 'arjun@gmail.com'  
  },  
  {  
    _id: ObjectId('6957510f0360208b17cdcdfd'),  
    id: 9,  
    FirstName: 'Isha',  
    LastName: 'Singh',  
    DateOfBirth: '1998-04-10',  
    phone: '901234567',  
    email: 'isha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751110360208b17cdcdfd'),  
    id: 10,  
    FirstName: 'Aditya',  
    LastName: 'Kumar',  
    DateOfBirth: '1999-06-25',  
    phone: '012345678',  
    email: 'aditya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751130360208b17cdcdfd'),  
    id: 11,  
    FirstName: 'Neha',  
    LastName: 'Sharma',  
    DateOfBirth: '2000-08-30',  
    phone: '123456789',  
    email: 'neha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751150360208b17cdcdfd'),  
    id: 12,  
    FirstName: 'Rohan',  
    LastName: 'Singh',  
    DateOfBirth: '2001-10-05',  
    phone: '234567890',  
    email: 'rohan@gmail.com'  
  },  
  {  
    _id: ObjectId('695751170360208b17cdcdfd'),  
    id: 13,  
    FirstName: 'Sanya',  
    LastName: 'Kumar',  
    DateOfBirth: '2002-12-18',  
    phone: '345678901',  
    email: 'sanya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751190360208b17cdcdfd'),  
    id: 14,  
    FirstName: 'Vishal',  
    LastName: 'Sharma',  
    DateOfBirth: '2003-01-22',  
    phone: '456789012',  
    email: 'vishal@gmail.com'  
  },  
  {  
    _id: ObjectId('6957511b0360208b17cdcdfd'),  
    id: 15,  
    FirstName: 'Ananya',  
    LastName: 'Singh',  
    DateOfBirth: '2004-03-08',  
    phone: '567890123',  
    email: 'ananya@gmail.com'  
  },  
  {  
    _id: ObjectId('6957511d0360208b17cdcdfd'),  
    id: 16,  
    FirstName: 'Kabir',  
    LastName: 'Kumar',  
    DateOfBirth: '2005-05-14',  
    phone: '678901234',  
    email: 'kabir@gmail.com'  
  },  
  {  
    _id: ObjectId('6957511f0360208b17cdcdfd'),  
    id: 17,  
    FirstName: 'Ishika',  
    LastName: 'Sharma',  
    DateOfBirth: '2006-07-27',  
    phone: '789012345',  
    email: 'ishika@gmail.com'  
  },  
  {  
    _id: ObjectId('695751210360208b17cdcdfd'),  
    id: 18,  
    FirstName: 'Nikhil',  
    LastName: 'Singh',  
    DateOfBirth: '2007-09-03',  
    phone: '890123456',  
    email: 'nikhil@gmail.com'  
  },  
  {  
    _id: ObjectId('695751230360208b17cdcdfd'),  
    id: 19,  
    FirstName: 'Priyanka',  
    LastName: 'Kumar',  
    DateOfBirth: '2008-11-19',  
    phone: '901234567',  
    email: 'priyanka@gmail.com'  
  },  
  {  
    _id: ObjectId('695751250360208b17cdcdfd'),  
    id: 20,  
    FirstName: 'Rishi',  
    LastName: 'Sharma',  
    DateOfBirth: '2009-01-24',  
    phone: '012345678',  
    email: 'rishi@gmail.com'  
  },  
  {  
    _id: ObjectId('695751270360208b17cdcdfd'),  
    id: 21,  
    FirstName: 'Siddha',  
    LastName: 'Singh',  
    DateOfBirth: '2010-03-31',  
    phone: '123456789',  
    email: 'siddha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751290360208b17cdcdfd'),  
    id: 22,  
    FirstName: 'Vedant',  
    LastName: 'Kumar',  
    DateOfBirth: '2011-05-06',  
    phone: '234567890',  
    email: 'vedant@gmail.com'  
  },  
  {  
    _id: ObjectId('6957512b0360208b17cdcdfd'),  
    id: 23,  
    FirstName: 'Yashika',  
    LastName: 'Sharma',  
    DateOfBirth: '2012-07-13',  
    phone: '345678901',  
    email: 'yashika@gmail.com'  
  },  
  {  
    _id: ObjectId('6957512d0360208b17cdcdfd'),  
    id: 24,  
    FirstName: 'Zoya',  
    LastName: 'Singh',  
    DateOfBirth: '2013-09-17',  
    phone: '456789012',  
    email: 'zoia@gmail.com'  
  },  
  {  
    _id: ObjectId('6957512f0360208b17cdcdfd'),  
    id: 25,  
    FirstName: 'Adarsh',  
    LastName: 'Kumar',  
    DateOfBirth: '2014-11-21',  
    phone: '567890123',  
    email: 'adarsh@gmail.com'  
  },  
  {  
    _id: ObjectId('695751310360208b17cdcdfd'),  
    id: 26,  
    FirstName: 'Bhavya',  
    LastName: 'Sharma',  
    DateOfBirth: '2015-01-26',  
    phone: '678901234',  
    email: 'bhavya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751330360208b17cdcdfd'),  
    id: 27,  
    FirstName: 'Chirag',  
    LastName: 'Singh',  
    DateOfBirth: '2016-03-29',  
    phone: '789012345',  
    email: 'chirag@gmail.com'  
  },  
  {  
    _id: ObjectId('695751350360208b17cdcdfd'),  
    id: 28,  
    FirstName: 'Disha',  
    LastName: 'Kumar',  
    DateOfBirth: '2017-05-04',  
    phone: '890123456',  
    email: 'disha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751370360208b17cdcdfd'),  
    id: 29,  
    FirstName: 'Eshaan',  
    LastName: 'Sharma',  
    DateOfBirth: '2018-07-09',  
    phone: '901234567',  
    email: 'eshaan@gmail.com'  
  },  
  {  
    _id: ObjectId('695751390360208b17cdcdfd'),  
    id: 30,  
    FirstName: 'Fahim',  
    LastName: 'Singh',  
    DateOfBirth: '2019-09-14',  
    phone: '012345678',  
    email: 'fahim@gmail.com'  
  },  
  {  
    _id: ObjectId('6957513b0360208b17cdcdfd'),  
    id: 31,  
    FirstName: 'Gauri',  
    LastName: 'Kumar',  
    DateOfBirth: '2020-11-19',  
    phone: '123456789',  
    email: 'gauri@gmail.com'  
  },  
  {  
    _id: ObjectId('6957513d0360208b17cdcdfd'),  
    id: 32,  
    FirstName: 'Harsh',  
    LastName: 'Sharma',  
    DateOfBirth: '2021-01-24',  
    phone: '234567890',  
    email: 'harsh@gmail.com'  
  },  
  {  
    _id: ObjectId('6957513f0360208b17cdcdfd'),  
    id: 33,  
    FirstName: 'Ishika',  
    LastName: 'Singh',  
    DateOfBirth: '2022-03-29',  
    phone: '345678901',  
    email: 'ishika@gmail.com'  
  },  
  {  
    _id: ObjectId('695751410360208b17cdcdfd'),  
    id: 34,  
    FirstName: 'Kabir',  
    LastName: 'Kumar',  
    DateOfBirth: '2023-05-04',  
    phone: '456789012',  
    email: 'kabir@gmail.com'  
  },  
  {  
    _id: ObjectId('695751430360208b17cdcdfd'),  
    id: 35,  
    FirstName: 'Neha',  
    LastName: 'Sharma',  
    DateOfBirth: '2024-07-09',  
    phone: '567890123',  
    email: 'neha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751450360208b17cdcdfd'),  
    id: 36,  
    FirstName: 'Rishi',  
    LastName: 'Singh',  
    DateOfBirth: '2025-09-14',  
    phone: '678901234',  
    email: 'rishi@gmail.com'  
  },  
  {  
    _id: ObjectId('695751470360208b17cdcdfd'),  
    id: 37,  
    FirstName: 'Siddha',  
    LastName: 'Kumar',  
    DateOfBirth: '2026-11-19',  
    phone: '789012345',  
    email: 'siddha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751490360208b17cdcdfd'),  
    id: 38,  
    FirstName: 'Vedant',  
    LastName: 'Sharma',  
    DateOfBirth: '2027-01-24',  
    phone: '890123456',  
    email: 'vedant@gmail.com'  
  },  
  {  
    _id: ObjectId('6957514b0360208b17cdcdfd'),  
    id: 39,  
    FirstName: 'Yashika',  
    LastName: 'Singh',  
    DateOfBirth: '2028-03-29',  
    phone: '901234567',  
    email: 'yashika@gmail.com'  
  },  
  {  
    _id: ObjectId('6957514d0360208b17cdcdfd'),  
    id: 40,  
    FirstName: 'Zoya',  
    LastName: 'Kumar',  
    DateOfBirth: '2029-05-04',  
    phone: '012345678',  
    email: 'zoia@gmail.com'  
  },  
  {  
    _id: ObjectId('6957514f0360208b17cdcdfd'),  
    id: 41,  
    FirstName: 'Adarsh',  
    LastName: 'Sharma',  
    DateOfBirth: '2030-07-09',  
    phone: '123456789',  
    email: 'adarsh@gmail.com'  
  },  
  {  
    _id: ObjectId('695751510360208b17cdcdfd'),  
    id: 42,  
    FirstName: 'Bhavya',  
    LastName: 'Singh',  
    DateOfBirth: '2031-09-14',  
    phone: '234567890',  
    email: 'bhavya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751530360208b17cdcdfd'),  
    id: 43,  
    FirstName: 'Chirag',  
    LastName: 'Kumar',  
    DateOfBirth: '2032-11-19',  
    phone: '345678901',  
    email: 'chirag@gmail.com'  
  },  
  {  
    _id: ObjectId('695751550360208b17cdcdfd'),  
    id: 44,  
    FirstName: 'Disha',  
    LastName: 'Sharma',  
    DateOfBirth: '2033-01-24',  
    phone: '456789012',  
    email: 'disha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751570360208b17cdcdfd'),  
    id: 45,  
    FirstName: 'Eshaan',  
    LastName: 'Singh',  
    DateOfBirth: '2034-03-29',  
    phone: '567890123',  
    email: 'eshaan@gmail.com'  
  },  
  {  
    _id: ObjectId('695751590360208b17cdcdfd'),  
    id: 46,  
    FirstName: 'Fahim',  
    LastName: 'Kumar',  
    DateOfBirth: '2035-05-04',  
    phone: '678901234',  
    email: 'fahim@gmail.com'  
  },  
  {  
    _id: ObjectId('6957515b0360208b17cdcdfd'),  
    id: 47,  
    FirstName: 'Gauri',  
    LastName: 'Sharma',  
    DateOfBirth: '2036-07-09',  
    phone: '789012345',  
    email: 'gauri@gmail.com'  
  },  
  {  
    _id: ObjectId('6957515d0360208b17cdcdfd'),  
    id: 48,  
    FirstName: 'Harsh',  
    LastName: 'Singh',  
    DateOfBirth: '2037-09-14',  
    phone: '890123456',  
    email: 'harsh@gmail.com'  
  },  
  {  
    _id: ObjectId('6957515f0360208b17cdcdfd'),  
    id: 49,  
    FirstName: 'Ishika',  
    LastName: 'Kumar',  
    DateOfBirth: '2038-11-19',  
    phone: '901234567',  
    email: 'ishika@gmail.com'  
  },  
  {  
    _id: ObjectId('695751610360208b17cdcdfd'),  
    id: 50,  
    FirstName: 'Kabir',  
    LastName: 'Sharma',  
    DateOfBirth: '2039-01-24',  
    phone: '012345678',  
    email: 'kabir@gmail.com'  
  },  
  {  
    _id: ObjectId('695751630360208b17cdcdfd'),  
    id: 51,  
    FirstName: 'Neha',  
    LastName: 'Singh',  
    DateOfBirth: '2040-03-29',  
    phone: '123456789',  
    email: 'neha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751650360208b17cdcdfd'),  
    id: 52,  
    FirstName: 'Rishi',  
    LastName: 'Kumar',  
    DateOfBirth: '2041-05-04',  
    phone: '234567890',  
    email: 'rishi@gmail.com'  
  },  
  {  
    _id: ObjectId('695751670360208b17cdcdfd'),  
    id: 53,  
    FirstName: 'Siddha',  
    LastName: 'Sharma',  
    DateOfBirth: '2042-07-09',  
    phone: '345678901',  
    email: 'siddha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751690360208b17cdcdfd'),  
    id: 54,  
    FirstName: 'Vedant',  
    LastName: 'Singh',  
    DateOfBirth: '2043-09-14',  
    phone: '456789012',  
    email: 'vedant@gmail.com'  
  },  
  {  
    _id: ObjectId('6957516b0360208b17cdcdfd'),  
    id: 55,  
    FirstName: 'Yashika',  
    LastName: 'Kumar',  
    DateOfBirth: '2044-11-19',  
    phone: '567890123',  
    email: 'yashika@gmail.com'  
  },  
  {  
    _id: ObjectId('6957516d0360208b17cdcdfd'),  
    id: 56,  
    FirstName: 'Zoya',  
    LastName: 'Sharma',  
    DateOfBirth: '2045-01-24',  
    phone: '678901234',  
    email: 'zoia@gmail.com'  
  },  
  {  
    _id: ObjectId('6957516f0360208b17cdcdfd'),  
    id: 57,  
    FirstName: 'Adarsh',  
    LastName: 'Singh',  
    DateOfBirth: '2046-03-29',  
    phone: '789012345',  
    email: 'adarsh@gmail.com'  
  },  
  {  
    _id: ObjectId('695751710360208b17cdcdfd'),  
    id: 58,  
    FirstName: 'Bhavya',  
    LastName: 'Kumar',  
    DateOfBirth: '2047-05-04',  
    phone: '890123456',  
    email: 'bhavya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751730360208b17cdcdfd'),  
    id: 59,  
    FirstName: 'Chirag',  
    LastName: 'Sharma',  
    DateOfBirth: '2048-07-09',  
    phone: '901234567',  
    email: 'chirag@gmail.com'  
  },  
  {  
    _id: ObjectId('695751750360208b17cdcdfd'),  
    id: 60,  
    FirstName: 'Disha',  
    LastName: 'Singh',  
    DateOfBirth: '2049-09-14',  
    phone: '012345678',  
    email: 'disha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751770360208b17cdcdfd'),  
    id: 61,  
    FirstName: 'Eshaan',  
    LastName: 'Kumar',  
    DateOfBirth: '2050-11-19',  
    phone: '123456789',  
    email: 'eshaan@gmail.com'  
  },  
  {  
    _id: ObjectId('695751790360208b17cdcdfd'),  
    id: 62,  
    FirstName: 'Fahim',  
    LastName: 'Sharma',  
    DateOfBirth: '2051-01-24',  
    phone: '234567890',  
    email: 'fahim@gmail.com'  
  },  
  {  
    _id: ObjectId('6957517b0360208b17cdcdfd'),  
    id: 63,  
    FirstName: 'Gauri',  
    LastName: 'Singh',  
    DateOfBirth: '2052-03-29',  
    phone: '345678901',  
    email: 'gauri@gmail.com'  
  },  
  {  
    _id: ObjectId('6957517d0360208b17cdcdfd'),  
    id: 64,  
    FirstName: 'Harsh',  
    LastName: 'Kumar',  
    DateOfBirth: '2053-05-04',  
    phone: '456789012',  
    email: 'harsh@gmail.com'  
  },  
  {  
    _id: ObjectId('6957517f0360208b17cdcdfd'),  
    id: 65,  
    FirstName: 'Ishika',  
    LastName: 'Sharma',  
    DateOfBirth: '2054-07-09',  
    phone: '567890123',  
    email: 'ishika@gmail.com'  
  },  
  {  
    _id: ObjectId('695751810360208b17cdcdfd'),  
    id: 66,  
    FirstName: 'Kabir',  
    LastName: 'Singh',  
    DateOfBirth: '2055-09-14',  
    phone: '678901234',  
    email: 'kabir@gmail.com'  
  },  
  {  
    _id: ObjectId('695751830360208b17cdcdfd'),  
    id: 67,  
    FirstName: 'Neha',  
    LastName: 'Kumar',  
    DateOfBirth: '2056-11-19',  
    phone: '789012345',  
    email: 'neha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751850360208b17cdcdfd'),  
    id: 68,  
    FirstName: 'Rishi',  
    LastName: 'Sharma',  
    DateOfBirth: '2057-01-24',  
    phone: '890123456',  
    email: 'rishi@gmail.com'  
  },  
  {  
    _id: ObjectId('695751870360208b17cdcdfd'),  
    id: 69,  
    FirstName: 'Siddha',  
    LastName: 'Singh',  
    DateOfBirth: '2058-03-29',  
    phone: '901234567',  
    email: 'siddha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751890360208b17cdcdfd'),  
    id: 70,  
    FirstName: 'Vedant',  
    LastName: 'Kumar',  
    DateOfBirth: '2059-05-04',  
    phone: '012345678',  
    email: 'vedant@gmail.com'  
  },  
  {  
    _id: ObjectId('6957518b0360208b17cdcdfd'),  
    id: 71,  
    FirstName: 'Yashika',  
    LastName: 'Sharma',  
    DateOfBirth: '2060-07-09',  
    phone: '123456789',  
    email: 'yashika@gmail.com'  
  },  
  {  
    _id: ObjectId('6957518d0360208b17cdcdfd'),  
    id: 72,  
    FirstName: 'Zoya',  
    LastName: 'Singh',  
    DateOfBirth: '2061-09-14',  
    phone: '234567890',  
    email: 'zoia@gmail.com'  
  },  
  {  
    _id: ObjectId('6957518f0360208b17cdcdfd'),  
    id: 73,  
    FirstName: 'Adarsh',  
    LastName: 'Kumar',  
    DateOfBirth: '2062-11-19',  
    phone: '345678901',  
    email: 'adarsh@gmail.com'  
  },  
  {  
    _id: ObjectId('695751910360208b17cdcdfd'),  
    id: 74,  
    FirstName: 'Bhavya',  
    LastName: 'Sharma',  
    DateOfBirth: '2063-01-24',  
    phone: '456789012',  
    email: 'bhavya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751930360208b17cdcdfd'),  
    id: 75,  
    FirstName: 'Chirag',  
    LastName: 'Singh',  
    DateOfBirth: '2064-03-29',  
    phone: '567890123',  
    email: 'chirag@gmail.com'  
  },  
  {  
    _id: ObjectId('695751950360208b17cdcdfd'),  
    id: 76,  
    FirstName: 'Disha',  
    LastName: 'Kumar',  
    DateOfBirth: '2065-05-04',  
    phone: '678901234',  
    email: 'disha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751970360208b17cdcdfd'),  
    id: 77,  
    FirstName: 'Eshaan',  
    LastName: 'Sharma',  
    DateOfBirth: '2066-07-09',  
    phone: '789012345',  
    email: 'eshaan@gmail.com'  
  },  
  {  
    _id: ObjectId('695751990360208b17cdcdfd'),  
    id: 78,  
    FirstName: 'Fahim',  
    LastName: 'Singh',  
    DateOfBirth: '2067-09-14',  
    phone: '890123456',  
    email: 'fahim@gmail.com'  
  },  
  {  
    _id: ObjectId('6957519b0360208b17cdcdfd'),  
    id: 79,  
    FirstName: 'Gauri',  
    LastName: 'Kumar',  
    DateOfBirth: '2068-11-19',  
    phone: '901234567',  
    email: 'gauri@gmail.com'  
  },  
  {  
    _id: ObjectId('6957519d0360208b17cdcdfd'),  
    id: 80,  
    FirstName: 'Harsh',  
    LastName: 'Sharma',  
    DateOfBirth: '2069-01-24',  
    phone: '012345678',  
    email: 'harsh@gmail.com'  
  },  
  {  
    _id: ObjectId('6957519f0360208b17cdcdfd'),  
    id: 81,  
    FirstName: 'Ishika',  
    LastName: 'Singh',  
    DateOfBirth: '2070-03-29',  
    phone: '123456789',  
    email: 'ishika@gmail.com'  
  },  
  {  
    _id: ObjectId('695751a10360208b17cdcdfd'),  
    id: 82,  
    FirstName: 'Kabir',  
    LastName: 'Kumar',  
    DateOfBirth: '2071-05-04',  
    phone: '234567890',  
    email: 'kabir@gmail.com'  
  },  
  {  
    _id: ObjectId('695751a30360208b17cdcdfd'),  
    id: 83,  
    FirstName: 'Neha',  
    LastName: 'Sharma',  
    DateOfBirth: '2072-07-09',  
    phone: '345678901',  
    email: 'neha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751a50360208b17cdcdfd'),  
    id: 84,  
    FirstName: 'Rishi',  
    LastName: 'Singh',  
    DateOfBirth: '2073-09-14',  
    phone: '456789012',  
    email: 'rishi@gmail.com'  
  },  
  {  
    _id: ObjectId('695751a70360208b17cdcdfd'),  
    id: 85,  
    FirstName: 'Siddha',  
    LastName: 'Kumar',  
    DateOfBirth: '2074-11-19',  
    phone: '567890123',  
    email: 'siddha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751a90360208b17cdcdfd'),  
    id: 86,  
    FirstName: 'Vedant',  
    LastName: 'Sharma',  
    DateOfBirth: '2075-01-24',  
    phone: '678901234',  
    email: 'vedant@gmail.com'  
  },  
  {  
    _id: ObjectId('695751ab0360208b17cdcdfd'),  
    id: 87,  
    FirstName: 'Yashika',  
    LastName: 'Singh',  
    DateOfBirth: '2076-03-29',  
    phone: '789012345',  
    email: 'yashika@gmail.com'  
  },  
  {  
    _id: ObjectId('695751ad0360208b17cdcdfd'),  
    id: 88,  
    FirstName: 'Zoya',  
    LastName: 'Kumar',  
    DateOfBirth: '2077-05-04',  
    phone: '890123456',  
    email: 'zoia@gmail.com'  
  },  
  {  
    _id: ObjectId('695751af0360208b17cdcdfd'),  
    id: 89,  
    FirstName: 'Adarsh',  
    LastName: 'Sharma',  
    DateOfBirth: '2078-07-09',  
    phone: '901234567',  
    email: 'adarsh@gmail.com'  
  },  
  {  
    _id: ObjectId('695751b10360208b17cdcdfd'),  
    id: 90,  
    FirstName: 'Bhavya',  
    LastName: 'Singh',  
    DateOfBirth: '2079-09-14',  
    phone: '012345678',  
    email: 'bhavya@gmail.com'  
  },  
  {  
    _id: ObjectId('695751b30360208b17cdcdfd'),  
    id: 91,  
    FirstName: 'Chirag',  
    LastName: 'Kumar',  
    DateOfBirth: '2080-11-19',  
    phone: '123456789',  
    email: 'chirag@gmail.com'  
  },  
  {  
    _id: ObjectId('695751b50360208b17cdcdfd'),  
    id: 92,  
    FirstName: 'Disha',  
    LastName: 'Sharma',  
    DateOfBirth: '2081-01-24',  
    phone: '234567890',  
    email: 'disha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751b70360208b17cdcdfd'),  
    id: 93,  
    FirstName: 'Eshaan',  
    LastName: 'Singh',  
    DateOfBirth: '2082-03-29',  
    phone: '345678901',  
    email: 'eshaan@gmail.com'  
  },  
  {  
    _id: ObjectId('695751b90360208b17cdcdfd'),  
    id: 94,  
    FirstName: 'Fahim',  
    LastName: 'Kumar',  
    DateOfBirth: '2083-05-04',  
    phone: '456789012',  
    email: 'fahim@gmail.com'  
  },  
  {  
    _id: ObjectId('695751bb0360208b17cdcdfd'),  
    id: 95,  
    FirstName: 'Gauri',  
    LastName: 'Sharma',  
    DateOfBirth: '2084-07-09',  
    phone: '567890123',  
    email: 'gauri@gmail.com'  
  },  
  {  
    _id: ObjectId('695751bd0360208b17cdcdfd'),  
    id: 96,  
    FirstName: 'Harsh',  
    LastName: 'Singh',  
    DateOfBirth: '2085-09-14',  
    phone: '678901234',  
    email: 'harsh@gmail.com'  
  },  
  {  
    _id: ObjectId('695751bf0360208b17cdcdfd'),  
    id: 97,  
    FirstName: 'Ishika',  
    LastName: 'Kumar',  
    DateOfBirth: '2086-11-19',  
    phone: '789012345',  
    email: 'ishika@gmail.com'  
  },  
  {  
    _id: ObjectId('695751c10360208b17cdcdfd'),  
    id: 98,  
    FirstName: 'Kabir',  
    LastName: 'Sharma',  
    DateOfBirth: '2087-01-24',  
    phone: '890123456',  
    email: 'kabir@gmail.com'  
  },  
  {  
    _id: ObjectId('695751c30360208b17cdcdfd'),  
    id: 99,  
    FirstName: 'Neha',  
    LastName: 'Singh',  
    DateOfBirth: '2088-03-29',  
    phone: '901234567',  
    email: 'neha@gmail.com'  
  },  
  {  
    _id: ObjectId('695751c50360208b17cdcdfd'),  
    id: 100,  
    FirstName: 'Rishi',  
    LastName: 'Kumar',  
    DateOfBirth: '2089-05-04',  
    phone: '012345678',  
    email: 'rishi@gmail.com'  
  },  
  {  
    _id: ObjectId('695751c70360208b17cdcdfd'),  
    id: 101,  
    FirstName: 'Siddha',  
    LastName: 'Sharma',  
    DateOfBirth: '2090-07-09',  
    phone: '123456789',  
    email: 'siddha@gmail.com'  
  },  
  {  
    _id: ObjectId('69
```


db.Agents.find()

```
insDB> db.Agents.find()
[
  {
    _id: ObjectId('695752b60360208b17cdcdfc'),
    AgentID: 1,
    AgentName: 'Mahesh Babu',
    Phone: '193834949',
    City: '193834949'
  },
  {
    _id: ObjectId('695752d80360208b17cdcdfd'),
    AgentID: 2,
    AgentName: 'Prabhas Raju',
    Phone: '1827364590',
    City: 'Bangalore'
  },
  {
    _id: ObjectId('695752fd0360208b17cdcdfd'),
    AgentID: 3,
    AgentName: 'Suresh Kumar',
    Phone: '9988776655',
    City: 'Nagpur'
  }
]
```

db.Policies.find()

```
insDB> db.Policies.find()
[
  {
    _id: ObjectId('6957535d0360208b17cdcdfd'),
    PolicyID: 100,
    PolicyName: 'JeevanSathi',
    PolicyType: 'Marriage',
    PremiumAmount: 10000,
    DurationYears: 2
  },
  {
    _id: ObjectId('695753910360208b17cdcee0'),
    PolicyID: 200,
    PolicyName: 'Smart term plan plus',
    PolicyType: 'Term Life',
    PremiumAmount: 30000,
    DurationYears: 8
  },
  {
    _id: ObjectId('695753bd0360208b17cdcee1'),
    PolicyID: 300,
    PolicyName: 'ICICI Pru Signature',
    PolicyType: 'Unit Linked',
    PremiumAmount: 20000,
    DurationYears: 3
  }
]
```

db.PolicyAssignments.find()

```
insDB> db.PolicyAssignments.find()
[
  {
    _id: ObjectId('695754e90360208b17cdce05'),
    AssignmentID: 3000,
    CustomerID: 3,
    PolicyID: 400,
    AgentID: 101,
    StartDate: '2024-12-14',
    EndDate: '2024-12-14',
  },
  {
    _id: ObjectId('6957551c0360208b17cdce06'),
    AssignmentID: 4000,
    CustomerID: 4,
    PolicyID: 500,
    AgentID: 101,
    StartDate: '2023-05-19',
    EndDate: '2027-12-19',
  },
  {
    _id: ObjectId('6957554f0360208b17cdce07'),
    AssignmentID: 5000,
    CustomerID: 5,
    PolicyID: 200,
    AgentID: 102,
    StartDate: '2024-06-07',
    EndDate: '2026-06-07',
  }
]
```

db.Claims.find()

```
insDB> db.Claims.find()
[
  {
    _id: ObjectId('695754830360208b17cdce04'),
    ClaimID: 303,
    AssignmentID: 3000,
    ClaimDate: '2025-01-23',
    ClaimAmount: 20000,
    ClaimStatus: 'Pending'
  }
]
```

12. Update Multiple Documents

a) Increase premium by 2000 for all Motor policies

```
db.Policies.updateMany(  
  { PolicyType: "Motor" },  
  { $inc: { PremiumAmount: 2000 } }  
)
```

```
insDB> db.Policies.updateMany(  
...   { PolicyType: "Motor" },  
...   { $inc: { PremiumAmount: 2000 } }  
... )  
{  
  acknowledged: true,  
  insertedId: null,  
  matchedCount: 2,  
  modifiedCount: 2,  
  upsertedCount: 0  
}
```

13. Find with Condition (Filtering)

a) Find customers with last name "Sharma"

```
db.Customers.find({ LastName: "Sharma" })
```

```
insDB> db.Customers.find({ LastName: "Sharma" })
[
  {
    _id: ObjectId('695750950360208b17cdcdf7'),
    id: 1,
    FirstName: 'Amit',
    LastName: 'Sharma',
    DateOfBirth: '1990-05-10 00:00:00.000',
    phone: '123457890',
    email: 'amit@gmail.com'
  },
  {
    _id: ObjectId('695751570360208b17cdcdf9'),
    id: 3,
    FirstName: 'Rohit',
    LastName: 'Sharma',
    DateOfBirth: '1987-04-30',
    phone: '9876543210',
    email: 'rohit@gmail.com'
  }
]
```

b) Find policies with premium greater than 10,000

```
db.Policies.find({ PremiumAmount: { $gt: 10000 } })
```

```
insDB> db.Policies.find({ PremiumAmount: { $gt: 10000 } })
[
  {
    _id: ObjectId('695753910360208b17cdce00'),
    PolicyID: 200,
    PolicyName: 'Smart term plan plus',
    PolicyType: 'Term Life',
    PremiumAmount: 30000,
    DurationYears: 8
  },
  {
    _id: ObjectId('695753bd0360208b17cdce01'),
    PolicyID: 300,
    PolicyName: 'ICICI Pru Signature',
    PolicyType: 'Unit Linked',
    PremiumAmount: 20000,
    DurationYears: 3
  },
  {
    _id: ObjectId('695753df0360208b17cdce02'),
    PolicyID: 400,
    PolicyName: 'Car Insurance',
    PolicyType: 'Motor',
    PremiumAmount: 27000,
    DurationYears: 5
  }
]
```

14. Projection (Display Selected Fields)

a) Display only FirstName and Email of customers

```
db.Customers.find(  
  {},  
  { _id: 0, FirstName: 1, email: 1 }  
)
```

```
{  
  _id: ObjectId('695754050360208b17cdce03'),  
  PolicyID: 500,  
  PolicyName: 'Bike Insurance',  
  PolicyType: 'Motor',  
  PremiumAmount: 11000,  
  DurationYears: 3  
}
```

```
insDB> db.Customers.find(  
...   {},  
...   { _id: 0, FirstName: 1, email: 1 }  
... )  
...  
[  
  {},  
  { FirstName: 'Amit', email: 'amit@gmail.com' },  
  { FirstName: 'Rahul', email: 'rahul@gmail.com' },  
  { FirstName: 'Rohit', email: 'rohit@gmail.com' },  
  { FirstName: 'Virat', email: 'virat@gmail.com' },  
  { FirstName: 'MS', email: 'dhoni@gmail.com' }  
]
```

15. Sorting Documents

a) Sort customers by DateOfBirth (ascending)

```
db.Customers.find().sort({ DateOfBirth: 1 })
```

b) Sort policies by PremiumAmount (descending)

```
db.Policies.find().sort({ PremiumAmount: -1 })
```

16. Limit and Skip

a) Display first 3 customers

db.Customers.find().limit(3)

```
insDB> db.Customers.find().limit(3)
[
  { _id: ObjectId('69574fe40360208b17cdcdf6') },
  {
    _id: ObjectId('695750950360208b17cdcdf7'),
    id: 1,
    FirstName: 'Amit',
    LastName: 'Sharma',
    DateOfBirth: '1990-05-10 00:00:00.000',
    phone: '123457890',
    email: 'amit@gmail.com'
  },
  {
    _id: ObjectId('695750fd0360208b17cdcdf8'),
    id: 2,
    FirstName: 'Rahul',
    LastName: 'Varma',
    DateOfBirth: '1991-06-17',
    phone: '2313457890',
    email: 'rahul@gmail.com'
  }
]
```

a) Skip first 2 customers and display next records

db.Customers.find().skip(2)

```
insDB> db.Customers.find().skip(2)
[
  {
    _id: ObjectId('695750fd0360208b17cdcdf8'),
    id: 2,
    FirstName: 'Rahul',
    LastName: 'Varma',
    DateOfBirth: '1991-06-17',
    phone: '2313457890',
    email: 'rahul@gmail.com'
  },
  {
    _id: ObjectId('695751570360208b17cdcdf9'),
    id: 3,
    FirstName: 'Rohit',
    LastName: 'Sharma',
    DateOfBirth: '1987-04-30',
    phone: '9876543210',
    email: 'rohit@gmail.com'
  },
  {
    _id: ObjectId('695751f50360208b17cdcdfa'),
    id: 4,
    FirstName: 'Virat',
    LastName: 'Kohli',
    DateOfBirth: '1988-03-11',
    phone: '1029384756',
    email: 'virat@gmail.com'
  }
]
```

17. Count Documents

a) Count total customers

```
db.Customers.countDocuments()
```

```
insDB> db.Customers.countDocuments()  
6
```

b) Count number of Motor insurance policies

```
db.Policies.countDocuments({ PolicyType: "Motor" })
```

```
[  
  {  
    _id: ObjectId('695752390360208b17cdcdfb'),  
    id: 5,  
    FirstName: 'MS',  
    LastName: 'Dhoni',  
    DateOfBirth: '1983-07-11',  
    phone: '0192837465',  
    email: 'dhoni@gmail.com'  
  }  
]
```

18. Delete Operations

a) Delete a customer with id = 1

```
db.Customers.deleteOne({ id: 1 })
```

```
insDB> db.Customers.deleteOne({ id: 1 })  
{ acknowledged: true, deletedCount: 1 }  
insDB>
```

b) Delete all policies with duration less than 3 years

```
db.Policies.deleteMany({ DurationYears: { $lt: 3 } })
```

```
insDB> db.Policies.deleteMany({ DurationYears: { $lt: 3 } })
{ acknowledged: true, deletedCount: 1 }
```

19. Aggregate Operations

a) Find total premium amount of all policies

```
db.Policies.aggregate([
  {
    $group: {
      _id: null,
      TotalPremium: { $sum: "$PremiumAmount" }
    }
  }
])
```

```
insDB> db.Policies.deleteMany({ DurationYears: { $lt: 3 } })
{ acknowledged: true, deletedCount: 1 }
insDB> db.Policies.aggregate([
...
... {
...
...   $group: {
...
...     _id: null,
...
...     TotalPremium: { $sum: "$PremiumAmount" }
...
...   }
...
... }
...
... ])
[ { _id: null, TotalPremium: 88000 } ]
```


b) Find average premium amount by policy type

```
db.Policies.aggregate([  
  {  
    $group: {  
      _id: "$PolicyType",  
      AveragePremium: { $avg: "$PremiumAmount" }  
    }  
  }  
])
```

```
insDB> db.Policies.aggregate([  
...   {  
...     $group: {  
...       _id: "$PolicyType",  
...       AveragePremium: { $avg: "$PremiumAmount" }  
...     }  
...   }  
... ])  
[  
  { _id: 'Motor', AveragePremium: 19000 },  
  { _id: 'Term Life', AveragePremium: 30000 },  
  { _id: 'Unit Linked', AveragePremium: 20000 }  
]
```