

# Day5 MongoDB Assignment

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## **Database Creation:**

Database Name: Insurance

Created using MongoDB Compass by creating the first collection.

## **Collections:**

### **1. Customers:**

```
{  
  "customerId": 1,  
  "firstName": "Ravi",  
  "lastName": "Kumar",  
  "dateOfBirth": "1995-06-12",  
  "phone": "9876543210",  
  "email": "ravi@gmail.com"  
}  
  
{  
  "customerId": 2,  
  "firstName": "Anita",  
  "lastName": "Sharma",  
  "dateOfBirth": "1998-03-22",  
  "phone": "9123456789",  
  "email": "anita@gmail.com"  
}
```

### **2. Agents:**

```
{  
  "agentId": 101,  
  "agentName": "Suresh Rao",  
  "phone": "9988776655",  
  "address": "123 Main St, Anytown, USA"  
}
```

```
        "city": "Hyderabad"
    }
{
    "agentId": 102,
    "agentName": "Meena Joshi",
    "phone": "9877665544",
    "city": "Bangalore"
}
```

### 3. Policies:

```
{
    "policyId": 1001,
    "policyName": "Health Secure",
    "policyType": "Health",
    "premiumAmount": 12000,
    "durationYears": 10
}
{
    "policyId": 1002,
    "policyName": "Life Shield",
    "policyType": "Life",
    "premiumAmount": 15000,
    "durationYears": 20
}
```

### 4. Claims:

```
{
    "claimId": 5001,
    "customerId": 1,
    "policyId": 1001,
    "agentId": 101,
    "claimDate": "2024-01-10",
    "claimMoney": 45000,
    "claimStatus": "Approved"
}
{
    "claimId": 5002,
    "customerId": 2,
```

```
    "policyId": 1002,  
    "agentId": 102,  
    "claimDate": "2023-11-05",  
    "claimMoney": 25000,  
    "claimStatus": "Rejected"  
}
```

In the MongoDB design, the policyassignments and claims tables are combined into a single claims collection.

## Basic Queries:

1. Display all customers:

```
db.customers.find()
```

2. Display all agents:

```
db.agents.find()
```

## Conditional Queries

1. Find claims that are Approved:

```
db.claims.find({ claimStatus: "Approved" })
```

2. Find claims with amount greater than 30,000:

```
db.claims.find({ claimMoney: { $gt: 30000 } })
```

3. Find customers from customers collection using email:

```
db.customers.find({ email: "ravi@gmail.com" })
```

## CRUD Operations:

### Insert:

```
db.customers.insertOne({
```

```
    customerId: 3,
```

```
    firstName: "Rahul",
```

```
    lastName: "Verma",
```

```
    dateOfBirth: "1997-09-15",
```

```
    phone: "9012345678",  
    email: "rahul@gmail.com"  
})
```

#### **Update:**

```
db.customers.updateOne(  
  { customerId: 3 },  
  { $set: { phone: "8888888888" } }  
)
```

#### **Delete:**

```
db.claims.deleteOne({ claimId: 5003 })
```

## **Filtering Queries:**

### **1. Find customers born after 1996:**

```
db.customers.find({ dateOfBirth: { $gt: "1996-01-01" } })
```

### **2. Find agents from Hyderabad:**

```
db.agents.find({ city: "Hyderabad" })
```

### **3. Find claims between 20,000 and 50,000:**

```
db.claims.find(  
  { claimMoney: { $gte: 20000, $lte: 50000 } }  
)
```

## **Aggregation Queries:**

### **1. Total number of claims per status:**

```
db.claims.aggregate([  
  {  
    $group: {  
      _id: "$claimStatus",  
      totalClaims: { $sum: 1 }  
    }  
  }])
```

}

}

])