

## MONGODB COMMANDS

Project: Insurance Management Database

- **Start MongoDB Shell**

```
mongosh
```

- **Show existing databases**

```
show dbs
```

```
test> show dbs
admin    40.00 KiB
config   80.00 KiB
local    72.00 KiB
```

- **Create / switch to database**

```
use InsuranceDB
```

- **Create collections**

```
db.createCollection("customers")
db.createCollection("policies")
db.createCollection("agents")
db.createCollection("policyAssignments")
db.createCollection("claims")
```

- **Show collections**

```
show collections
```

## INSERT

- **Insert data into customers**

```
db.customers.insertMany([
  {
    customer_id: 1,
    first_name: "Sneha",
    last_name: "Reddy",
    dob: ISODate("1998-08-15"),
    phone: "9123456789",
    email: "sneha@gmail.com"
```

```
        },
        {
            customer_id: 2,
            first_name: "Ajay",
            last_name: "Kumar",
            dob: ISODate("1996-04-24"),
            phone: "9857458745",
            email: "ajay07@gmail.com"
        },
        {
            customer_id: 3,
            first_name: "Rahul",
            last_name: "Verma",
            dob: ISODate("1997-11-12"),
            phone: "9012345678",
            email: "rahul.verma@gmail.com"
        },
        {
            customer_id: 4,
            first_name: "Priya",
            last_name: "Sharma",
            dob: ISODate("1999-02-05"),
            phone: "9098765432",
            email: "priya.sharma@gmail.com"
        },
        {
            customer_id: 5,
            first_name: "Amit",
            last_name: "Singh",
            dob: ISODate("1995-06-18"),
            phone: "9887766554",
            email: "amit.singh@gmail.com"
        }
    ]
}
```

- **Insert data into policies**

```
db.policies.insertMany([
  {
    policy_id: 6,
    policy_name: "Health Secure",
    policy_type: "Health",
    premium_amount: 15000,
    duration_year: 5
  },
  { policy_id: 7, policy_name: "Life Shield", policy_type: "Life",
    premium_amount: 25000, duration_year: 10 },
  { policy_id: 8, policy_name: "Family Health Plus", policy_type: "Health",
    premium_amount: 18000, duration_year: 7 },
  { policy_id: 9, policy_name: "Term Life Pro", policy_type: "Life",
    premium_amount: 30000, duration_year: 15 },
  { policy_id: 10, policy_name: "Vehicle Secure", policy_type: "Motor",
    premium_amount: 12000, duration_year: 3 }
])
```

- **Insert data into agents**

```
db.agents.insertMany([
  { agent_id: 6, agent_name: "Ramesh Rao", phone: "9876543210", city:
    "Hyderabad" },
  { agent_id: 7, agent_name: "Anita Sharma", phone: "9988776655", city:
    "Bangalore" },
  { agent_id: 8, agent_name: "Suresh Patel", phone: "9011223344", city:
    "Ahmedabad" },
  { agent_id: 9, agent_name: "Kavya Nair", phone: "9090909090", city:
    "Kochi" },
  { agent_id: 10, agent_name: "Vikram Singh", phone: "9888899999", city:
    "Delhi" }
])
```

- **Insert data into policyAssignments**

```
db.policyAssignments.insertMany([
  {
    assignment_id: 19,
    customer_id: 1,
    policy_id: 6,
    agent_id: 6,
    startdate: ISODate("2023-01-01"),
    end_date: ISODate("2028-01-01")
  },
  {
    assignment_id: 20,
    customer_id: 2,
    policy_id: 7,
    agent_id: 7,
  }
])
```

```

        startdate: ISODate("2022-06-15"),
        end_date: ISODate("2032-06-15")
    },
    {
        assignment_id: 21,
        customer_id: 3,
        policy_id: 8,
        agent_id: 8,
        startdate: ISODate("2023-03-01"),
        end_date: ISODate("2028-03-01")
    },
    {
        assignment_id: 22,
        customer_id: 4,
        policy_id: 9,
        agent_id: 9,
        startdate: ISODate("2023-07-10"),
        end_date: ISODate("2028-07-10")
    },
    {
        assignment_id: 23,
        customer_id: 5,
        policy_id: 10,
        agent_id: 10,
        startdate: ISODate("2024-01-15"),
        end_date: ISODate("2029-01-15")
    }
])

```

- **Insert data into claims**

```

db.claims.insertMany([
    { claims_id: 1, assignment_id: 19, claim_date: ISODate("2024-02-10"),
claim_amount: 50000, claim_status: "Approved" },
    { claims_id: 2, assignment_id: 20, claim_date: ISODate("2024-05-20"),
claim_amount: 30000, claim_status: "Pending" },
    { claims_id: 3, assignment_id: 21, claim_date: ISODate("2024-03-15"),
claim_amount: 20000, claim_status: "Approved" },
    { claims_id: 4, assignment_id: 22, claim_date: ISODate("2024-04-18"),
claim_amount: 12000, claim_status: "Pending" },
    { claims_id: 5, assignment_id: 23, claim_date: ISODate("2024-06-05"),
claim_amount: 18000, claim_status: "Rejected" }
])

```

- **View data**

```

db.customers.find().pretty()
db.policies.find().pretty()
db.agents.find().pretty()
db.policyAssignments.find().pretty()

```

```
db.claims.find().pretty()
```

- **Show databases**

```
show dbs
```

```
InsuranceDB> show dbs
InsuranceDB 200.00 KiB
admin        40.00 KiB
config       96.00 KiB
local        72.00 KiB
```

- **Exit MongoDB shell**

```
exit
```

- **View all documents**

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

- **View documents in readable format**

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

- **Find a specific document**

```
db.customers.find({ customer_id: 1 })
```

- **Find with condition**

```
db.policies.find({ policy_type: "Health" })
```

## UPDATE

- **Update one document**

```
db.customers.updateOne(
  { customer_id: 1 },
  { $set: { phone: "9000000000" } }
```

```
)
```

- **Update multiple documents**

```
db.policies.updateMany(
  { policy_type: "Health" },
  { $set: { premium_amount: 20000 } }
```

```
)
```

- **Increment premium amount for all health policies**

```
db.policies.updateMany(
  { policy_type: "Health" },
  { $inc: { premium_amount: 1000 } })
```

## **DELETE**

- **Delete one document**

```
db.customers.deleteOne({ agent_id: 8 })
```

- **Delete multiple documents**

```
db.agents.deleteMany({ city: "Pune" })
```

- **Delete all documents in a collection**

```
db.claims.deleteMany({})
```