**MongodbCRUD operation Airline Management**

**E0422023**

**FLIGHTS COLLECTION**

**CREATE**

db.flights.insertOne({

\_id: "FL110",

airline: "Air India",

source: "DEL",

destination: "GOI",

departure\_time: "2025-08-06T09:30:00",

arrival\_time: "2025-08-06T12:00:00",

status: "Scheduled",

aircraft: { aircraft\_id: "A320-IND110", type: "Airbus A320", total\_seats: 180 },

available\_seats: 160,

price: 5000

})

**READ**

// 1. Read all flights

db.flights.find()

// 2. Find flights from Delhi to Mumbai

db.flights.find({ source: "DEL", destination: "BOM" })

**UPDATE**

// Update flight status

db.flights.updateOne(

{ \_id: "FL110" },

{ $set: { status: "Delayed" } }

)

**DELETE**

// Delete a flight

db.flights.deleteOne({ \_id: "FL110" })

**PASSENGERS COLLECTION**

**CREATE**

db.passengers.insertOne({

\_id: "PAX011",

name: "Ananya Verma",

email: "ananya@example.com",

phone: "+91-9876512345",

passport\_number: "Z1234567",

loyalty\_points: 300,

booking\_history: []

})

**UPDATE**

// Update loyalty points

db.passengers.updateOne(

{ \_id: "PAX011" },

{ $inc: { loyalty\_points: 100 } }

)

**DELETE**

db.passengers.deleteOne({ \_id: "PAX011" })

**BOOKINGS COLLECTION**

**CREATE**

db.bookings.insertOne({

\_id: "BKG1011",

flight\_id: "FL100",

passenger\_id: "PAX001",

booking\_date: "2025-08-01T15:00:00",

seat\_number: "14B",

price\_paid: 4500,

payment\_status: "Paid",

check\_in\_status: "Not Checked-In"

})

**READ**

// 1. Read all bookings

db.bookings.find()

// 2. Find all bookings of a passenger

db.bookings.find({ passenger\_id: "PAX001" })

**UPDATE**

// Update check-in status

db.bookings.updateOne(

{ \_id: "BKG1011" },

{ $set: { check\_in\_status: "Checked-In" } }

)

**DELETE**

db.bookings.deleteOne({ \_id: "BKG1011" })

**CREW COLLECTION**

**CREATE**

db.crew.insertOne({

\_id: "CREW011",

name: "Captain Rohit",

role: "Pilot",

assigned\_flights: ["FL100", "FL103"],

hours\_flown: 250,

availability\_status: "Available"

})

**READ**

// 1. Read all crew members

db.crew.find()

// 2. Find all pilots

db.crew.find({ role: "Pilot" })

**UPDATE**

// Update availability status

db.crew.updateOne(

{ \_id: "CREW011" },

{ $set: { availability\_status: "On Leave" } }

)

**DELETE**

db.crew.deleteOne({ \_id: "CREW011" })