
MongoDB Exercises

CRUD Operations and Data Retrieval

Movie Booking System Schema Creation

CREATE THE FOLLOWING COLLECTIONS

Key Collections:

1. **Movies Collection:** Information on available movies.
 2. **Theaters Collection:** Details of theater locations.
 3. **Users Collection:** Customer data and loyalty points.
 4. **Bookings Collection:** Reservation information.
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Movies Collection

Document Structure

```
{  
  "movie_id": "UUID",  
  "title": "String",  
  "genre": "String",  
  "release_year": "Number",  
  "duration": "Number",  
  "ratings": "Number",  
  "actors": ["Array of Actor Names"]  
}
```

Theater Collection

Document Structure

```
{  
  "theater_id": "UUID",  
  "name": "String",  
  "location": {  
    "city": "String",  
    "state": "String",  
    "country": "String"  
  },  
  "seating_capacity": "Number"  
}
```

Users Collection Document Structure

```
{  
  "user_id": "UUID",  
  "name": "String",  
  "email": "String",  
  "date_of_birth": "Date",  
  "loyalty_points": "Number"  
}
```

Bookings Collection Document Structure

```
{  
  "booking_id": "UUID",  
  "user_id": "UUID", // Reference to Users collection  
  "movie_id": "UUID", // Ref to Movies collection  
  "theater_id": "UUID", // Ref to Theaters collection  
  "seats_booked": "Number", // No of seats booked  
  "total_price": "Number",  
  "booking_date": "Date",  
}
```

Questions

Q1. Insert a new movie into the Movies collection.

Q2. Insert multiple users into the Users collection.

Q3. Find all movies in the 'Action' genre.

Q4. Find all theaters in the city 'New York'.

Q5. Update the seating capacity of a theater with ID '1'.

Questions

Q6. Delete a movie by its title.

Q7. Retrieve all bookings made by the user with ID '2'.

Q8. Find a movie by its title and display only the title and genre fields.

Q9. Find users who have more than 100 loyalty points.

Q10. Insert a new booking into the Bookings collection.
