ASSIGNMENT NO 9
31330

PROBLEM STATEMENT:

Design and Develop MongoDB Queries using CRUD operations. (Use CRUD operations, SAVE method, logical operators)

IMPLEMENTATION

```
test> show dbs
admin   40.00 KiB
config  12.00 KiB
local   40.00 KiB
test> show dbs
31330    8.00 KiB
admin   40.00 KiB
config  12.00 KiB
local   40.00 KiB
test> use 31330
switched to db 31330
31330> db.createCollection("movies");
{ ok: 1 }
31330> db.movies.insertMany([
...    {
...      title: "The Shawshank Redemption",
...      director: "Frank Darabont",
...      releaseYear: 1994,
...      genre: ["Drama", "Crime"],
...      rating: 9.3,
...    },
...    {
...      title: "The Godfather",
...      director: "Francis Ford Coppola",
...      releaseYear: 1972,
...      genre: ["Crime", "Drama"],
...      rating: 9.2,
...    },
...    {
...      title: "Pulp Fiction",
...      director: "Quentin Tarantino",
...      releaseYear: 1994,
...      genre: ["Crime", "Drama"],
...      rating: 8.9,
...    },
...    {
...      title: "The Dark Knight",
...      director: "Christopher Nolan",
...      releaseYear: 2008,
...      genre: ["Action", "Crime", "Drama"],
...      rating: 9.0,
...    },
...    {
...      title: "Inception",
...      director: "Christopher Nolan",
...      releaseYear: 2010,
...      genre: ["Action", "Adventure", "Sci-Fi"],
...      rating: 8.8,
...    },
```

```
... ]);
{
  acknowledged: true,
  insertedIds: {
    '0': ObjectId('670732783d564f69f6442ef1'),
    '1': ObjectId('670732783d564f69f6442ef2'),
    '2': ObjectId('670732783d564f69f6442ef3'),
    '3': ObjectId('670732783d564f69f6442ef4'),
    '4': ObjectId('670732783d564f69f6442ef5')
  }
}
31330> db.movies.find().pretty();
[
  {
    _id: ObjectId('670732783d564f69f6442ef1'),
    title: 'The Shawshank Redemption',
    director: 'Frank Darabont',
    releaseYear: 1994,
    genre: [ 'Drama', 'Crime' ],
    rating: 9.3
  },
  {
    _id: ObjectId('670732783d564f69f6442ef2'),
    title: 'The Godfather',
    director: 'Francis Ford Coppola',
    releaseYear: 1972,
    genre: [ 'Crime', 'Drama' ],
    rating: 9.2
  },
  {
    _id: ObjectId('670732783d564f69f6442ef3'),
    title: 'Pulp Fiction',
    director: 'Quentin Tarantino',
    releaseYear: 1994,
    genre: [ 'Crime', 'Drama' ],
    rating: 8.9
  },
  {
    _id: ObjectId('670732783d564f69f6442ef4'),
    title: 'The Dark Knight',
    director: 'Christopher Nolan',
    releaseYear: 2008,
    genre: [ 'Action', 'Crime', 'Drama' ],
    rating: 9
  },
  {
    _id: ObjectId('670732783d564f69f6442ef5'),
    title: 'Inception',
    director: 'Christopher Nolan',
    releaseYear: 2010,
    genre: [ 'Action', 'Adventure', 'Sci-Fi' ],
    rating: 8.8
  }
]
31330> db.movies.find({ title: "The Godfather" });
[
  {
    _id: ObjectId('670732783d564f69f6442ef2'),
    title: 'The Godfather',
    director: 'Francis Ford Coppola',
    releaseYear: 1972,
    genre: [ 'Crime', 'Drama' ],
```

```
      rating: 9.2
  }
]
31330> db.movies.find({ rating: { $gt: 9 } });
[
  {
    _id: ObjectId('670732783d564f69f6442ef1'),
    title: 'The Shawshank Redemption',
    director: 'Frank Darabont',
    releaseYear: 1994,
    genre: [ 'Drama', 'Crime' ],
    rating: 9.3
  },
  {
    _id: ObjectId('670732783d564f69f6442ef2'),
    title: 'The Godfather',
    director: 'Francis Ford Coppola',
    releaseYear: 1972,
    genre: [ 'Crime', 'Drama' ],
    rating: 9.2
  }
]
31330>
31330> db.movies.updateOne({ title: "The Godfather" }, { $set: { rating: 9.9 } });
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
31330> db.movies.save(
...     { _id: ObjectId("6549072b4f850d45854084bb") },
...     {
...         title: "The Shawshank Redemption",
...         director: "Frank Darabont",
...         releaseYear: 1994,
...         genre: ["Drama", "Crime", "Thriller"],
...         rating: 9.5,
...     }
... );
TypeError: db.movies.save is not a function
31330> db.movies.updateOne( { _id: ObjectId("6549072b4f850d45854084bb") }, { title: "The Shawshank
Redemption", director: "Frank Darabont", releaseYear: 1994, genre: ["Drama", "Crime", "Thriller"], rating: 9.5 }
);
MongoInvalidArgumentError: Update document requires atomic operators
31330> db.movies.deleteOne({ title: "The Shawshank Redemption" });
{ acknowledged: true, deletedCount: 1 }
31330>
31330>
31330> db.movies.find({
...     title: "The Dark Knight",
...     director: "Christopher Nolan",
... });
[
  {
    _id: ObjectId('670732783d564f69f6442ef4'),
    title: 'The Dark Knight',
    director: 'Christopher Nolan',
    releaseYear: 2008,
    genre: [ 'Action', 'Crime', 'Drama' ],
    rating: 9
```

```
  }
]
31330>
31330>
31330> db.movies.find({
...     $or: [{ director: "Christopher Nolan" }, { genre: "Action" }],
... });
[
 {
   _id: ObjectId('670732783d564f69f6442ef4'),
   title: 'The Dark Knight',
   director: 'Christopher Nolan',
   releaseYear: 2008,
   genre: [ 'Action', 'Crime', 'Drama' ],
   rating: 9
 },
 {
   _id: ObjectId('670732783d564f69f6442ef5'),
   title: 'Inception',
   director: 'Christopher Nolan',
   releaseYear: 2010,
   genre: [ 'Action', 'Adventure', 'Sci-Fi' ],
   rating: 8.8
 }
]
31330>
```