

MongoDB Exercise Solutions 01

Sol-1

```
use library;

db.books.insertMany([
  { "title": "The Great Gatsby", "author": "F. Scott Fitzgerald", "year": 1925 },
  { "title": "1984", "author": "George Orwell", "year": 1949 },
  { "title": "To Kill a Mockingbird", "author": "Harper Lee", "year": 1960 },
  { "title": "Moby-Dick", "author": "Herman Melville", "year": 1851 }
]);
```

Sol-2

```
// Find all books published before 1950
db.books.find({ "year": { $lt: 1950 } });

// Find the book by title "1984"
db.books.find({ "title": "1984" });
```

Sol-3

```
// Retrieve only title and author fields of all books
db.books.find({}, { "title": 1, "author": 1 });

// Retrieve title and year of books published after 1950
db.books.find({ "year": { $gt: 1950 } }, { "title": 1, "year": 1 });
```

Sol-4

```
// Retrieve books published in the year 1960
db.books.find({ "year": 1960 });

// Retrieve books published after 1950 but before 1980
db.books.find({ "year": { $gt: 1950, $lt: 1980 } });
```

Sol-5

```
// Retrieve books with year 1925, 1949, or 1960
db.books.find({ "year": { $in: [1925, 1949, 1960] } });

// Retrieve books written by "George Orwell" or "Harper Lee"
db.books.find({ "author": { $in: ["George Orwell", "Harper Lee"] } });
```

Sol-6

```
// Count books published after 1950
db.books.countDocuments({ "year": { $gt: 1950 } });

// Count the number of books written by "Harper Lee"
db.books.countDocuments({ "author": "Harper Lee" });
```