

1) use Restaurants

```
'switched to db Restaurant'
```

2) db.createCollection("Hotel")

```
{ ok: 1 }
```

3) Insert a record:

```
db.Hotel.insertOne({Hotel_id:4,  
Hotel_name:"Ryokan",  
Type:"Hotel+Restaurant",  
Ratings:5,  
Address:{Area:"Shibuya",City:"Tokyo",Pincode:"4411000"},  
Rooms:[{Room_no:402,Type:"Twin  
Sharing",Price:"3000"},{Room_no:501,Type:"Presidential  
Suite",Price:"5000"},{Room_no:100,Type:"Non AC",Price:"2000"}],  
Cuisines:["Indian","Italian","CHinese","Spanish"],  
likes:50000})
```

```
{ acknowledged: true,  
insertedIds: { '0': ObjectId('62f2789859828ae62b03acc7') } }
```

4) db.Hotel.find().pretty()

```
{ _id: ObjectId('62dcde4f11d219dd18a3fa8f'),  
Hotel_id: 1,  
Hotel_name: 'Sheraton',  
Type: 'Hotel+Restaurant',  
Ratings: 9,  
Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },  
Room: [  
  { Room_no: 101, Type: 'Deluxe', Price: 40000 },  
  { Room_no: 102, Type: 'Suite', Price: 40000 } ],  
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],  
likes: 400000 }
```

```
{ _id: ObjectId("62dce02011d219dd18a3fa90"),
  Hotel_id: 2,
  Hotel_name: 'Lemon Tree',
  Type: 'Hotel+Restaurant',
  Ratings: 4,
  Address: { Area: 'Dattawadi', City: 'Pune', Pincode: 411009 },
  Rooms:
    [ { Room_no: 1000, Type: 'Deluxe', Price: 20000 },
      { Room_no: 1001, Type: 'Suite', Price: 20000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 2000 }
{ _id: ObjectId("62dce02011d219dd18a3fa91"),
  Hotel_id: 3,
  Hotel_name: 'Taj',
  Type: 'Hotel+Restaurant',
  Ratings: 10,
  Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
  Rooms:
    [ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
      { Room_no: 102, Type: 'Suite', Price: 200000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 10000000 }
{ _id: ObjectId("62dce14411d219dd18a3fa92"),
  Hotel_id: 4,
  Hotel_name: 'Novotel',
  Type: 'Hotel+Restaurant',
  Ratings: 6,
  Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
  Rooms:
    [ { Room_no: 1000, Type: 'Deluxe', Price: 30000 },
      { Room_no: 1001, Type: 'Treehouse', Price: 20000 } ],
  Cuisine: [ 'Indian', 'CHinese' ],
  likes: 2000 }
{ _id: ObjectId("62dce14411d219dd18a3fa93"),
  Hotel_id: 5,
  Hotel_name: 'Ibis',
  Type: 'Hotel+Restaurant',
  Ratings: 5,
  Address: { Area: 'Bandra', City: 'Mumbai', Pincode: 400002 },
  Rooms:
    [ { Room_no: 101, Type: 'Deluxe', Price: 60000 },
      { Room_no: 102, Type: 'Sea-facing', Price: 80000 } ],
  Cuisines: [ 'Indian' ],
  likes: 50000 }
{ _id: ObjectId("62dce27411d219dd18a3fa94"),
  Hotel_id: 6,
  Hotel_name: 'Conrad',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Alandur', City: 'Chennai', Pincode: 600001 },
```

```
Room :
[ { Room_no: 10, Type: 'Suite', Price: 80000 },
  { Room_no: 11, Type: 'Sea-facing', Price: 85000 } ],
Cuisines: [ 'Indian', 'Italian' ],
likes: 2000 }
{ _id: ObjectId("62dce27411d219dd18a3fa95"),
Hotel_id: 7,
Hotel_name: 'Vivanta',
Type: 'Hotel+Restaurant',
Ratings: 5,
Address: { Area: 'Goregaon', City: 'Mumbai', Pincode: 400003 },
Room :
[ { Room_no: 111, Type: 'Deluxe', Price: 60000 },
  { Room_no: 112, Type: 'Sea-facing', Price: 80000 } ],
Cuisine : [ 'Indian', 'Italian' ],
likes: 6000 }
{ _id: ObjectId("62dce49811d219dd18a3fa96"),
Hotel_id: 8,
Hotel_name: 'JW Marriott',
Type: 'Hotel+Restaurant',
Ratings: 8,
Address: { Area: 'Anna Nagar', City: 'Chennai', Pincode: 600002 },
Room :
[ { Room_no: 1001, Type: 'Suite', Price: 89000 },
  { Room_no: 11, Type: 'Sea-facing', Price: 100000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 67000 }
{ _id: ObjectId("62dce49811d219dd18a3fa97"),
Hotel_id: 9,
Hotel_name: 'Oberoi',
Type: 'Hotel+Restaurant',
Ratings: 8,
Address: { Area: 'Baner', City: 'Pune', Pincode: 411045 },
Room :
[ { Room_no: 112, Type: 'Deluxe', Price: 67000 },
  { Room_no: 114, Type: 'Suite', Price: 85600 } ],
Cuisines: [ 'Indian', 'Italian' ],
likes: 89000 }
{ _id: ObjectId("62dce72d11d219dd18a3fa98"),
Hotel_id: 10,
Hotel_name: 'Ginger',
Type: 'Hotel+Restaurant',
Ratings: 3,
Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
Room :
[ { Room_no: 118, Type: 'Suite', Price: 20000 },
  { Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 2000 }
```

```

5) db.Hotel.find({Ratings:{$gt:8.5}})
  { _id: ObjectId("62dcde4f11d219dd18a3fa8f"),
    Hotel_id: 1,
    Hotel_name: 'Sheraton',
    Type: 'Hotel+Restaurant',
    Ratings: 9,
    Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
    Room:
    [ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
      { Room_no: 102, Type: 'Suite', Price: 40000 } ],
    Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
    likes: 400000 }
  { _id: ObjectId("62dce02011d219dd18a3fa91"),
    Hotel_id: 3,
    Hotel_name: 'Taj',
    Type: 'Hotel+Restaurant',
    Ratings: 10,
    Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
    Room:
    [ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
      { Room_no: 102, Type: 'Suite', Price: 200000 } ],
    Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
    likes: 1000000 }

```

```

6) db.Hotel.find({Ratings:{$gte:9}})
  { _id: ObjectId("62dcde4f11d219dd18a3fa8f"),
    Hotel_id: 1,
    Hotel_name: 'Taj Blue Diamond',
    Type: 'Hotel+Restaurant',
    Ratings: 9,
    Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
    Room:
    [ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
      { Room_no: 102, Type: 'Suite', Price: 40000 } ],
    Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
    likes: 400000 }
  { _id: ObjectId("62dce02011d219dd18a3fa91"),
    Hotel_id: 3,
    Hotel_name: 'Taj',
    Type: 'Hotel+Restaurant',
    Ratings: 10,
    Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
    Room:
    [ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
      { Room_no: 102, Type: 'Suite', Price: 200000 } ],
    Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
    likes: 1000000 }

```

```

7) db.Hotel.find({likes:{$lt: 6000}})
  { _id: ObjectId("62dce02011d219dd18a3fa90"),
    Hotel_id: 2,
    Hotel_name: 'Lemon Tree',
    Type: 'Hotel+Restaurant',
    Ratings: 4,
    Address: { Area: 'Dattawadi', City: 'Pune', Pincode: 411009 },
    Room:
    [ { Room_no: 1000, Type: 'Deluxe', Price: 20000 },
      { Room_no: 1001, Type: 'Suite', Price: 20000 } ],
    Cuisines: [ 'Indian', 'Italian' ],
    likes: 2000 }
  { _id: ObjectId("62dce14411d219dd18a3fa92"),
    Hotel_id: 4,
    Hotel_name: 'Novotel',
    Type: 'Hotel+Restaurant',
    Ratings: 6,
    Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
    Room:
    [ { Room_no: 1000, Type: 'Deluxe', Price: 30000 },
      { Room_no: 1001, Type: 'Treehouse', Price: 20000 } ],
    Cuisines: [ 'Indian', 'CHinese' ],
    likes: 2000 }
  { _id: ObjectId("62dce27411d219dd18a3fa94"),
    Hotel_id: 6,
    Hotel_name: 'Conrad',
    Type: 'Hotel+Restaurant',
    Ratings: 8,
    Address: { Area: 'Alandur', City: 'Chennai', Pincode: 600001 },
    Room:
    [ { Room_no: 10, Type: 'Suite', Price: 80000 },
      { Room_no: 11, Type: 'Sea-facing', Price: 85000 } ],
    Cuisines: [ 'Indian', 'Italian' ],
    likes: 2000 }
  { _id: ObjectId("62dce72d11d219dd18a3fa98"),
    Hotel_id: 10,
    Hotel_name: 'Ginger',
    Type: 'Hotel+Restaurant',
    Ratings: 3,
    Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
    Room:
    [ { Room_no: 118, Type: 'Suite', Price: 20000 },
      { Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
    Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
    likes: 2000 }

```

```

8) db.Hotel.find({likes:{$lte: 2000}})

```

```

{ _id: ObjectId("62dce02011d219dd18a3fa90"),
  Hotel_id: 2,
  Hotel_name: 'Lemon Tree',
  Type: 'Hotel+Restaurant',
  Ratings: 4,
  Address: { Area: 'Dattawadi', City: 'Pune', Pincode: 411009 },
  Room:
    [ { Room_no: 1000, Type: 'Deluxe', Price: 20000 },
      { Room_no: 1001, Type: 'Suite', Price: 20000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 2000 }
{ _id: ObjectId("62dce14411d219dd18a3fa92"),
  Hotel_id: 4,
  Hotel_name: 'Novotel',
  Type: 'Hotel+Restaurant',
  Ratings: 6,
  Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
  Room:
    [ { Room_no: 1000, Type: 'Deluxe', Price: 30000 },
      { Room_no: 1001, Type: 'Treehouse', Price: 20000 } ],
  Cuisines: [ 'Indian', 'CHinese' ],
  likes: 2000 }
{ _id: ObjectId("62dce27411d219dd18a3fa94"),
  Hotel_id: 6,
  Hotel_name: 'Conrad',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Alandur', City: 'Chennai', Pincode: 600001 },
  Room:
    [ { Room_no: 10, Type: 'Suite', Price: 80000 },
      { Room_no: 11, Type: 'Sea-facing', Price: 85000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 2000 }
{ _id: ObjectId("62dce72d11d219dd18a3fa98"),
  Hotel_id: 10,
  Hotel_name: 'Ginger',
  Type: 'Hotel+Restaurant',
  Ratings: 3,
  Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
  Room:
    [ { Room_no: 118, Type: 'Suite', Price: 20000 },
      { Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 2000 }

```

9) `db.Hotel.find({"Address.City":"Pune"})`

```

{ _id: ObjectId("62dcde4f11d219dd18a3fa8f"),

```

```

Hotel_id: 1,
Hotel_name: 'Sheraton',
Type: 'Hotel+Restaurant',
Ratings: 9,
Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
  { Room_no: 102, Type: 'Suite', Price: 40000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 400000 }
{ _id: ObjectId("62dce02011d219dd18a3fa90"),
Hotel_id: 2,
Hotel_name: 'Lemon Tree',
Type: 'Hotel+Restaurant',
Ratings: 4,
Address: { Area: 'Dattawadi', City: 'Pune', Pincode: 411009 },
Room:
[ { Room_no: 1000, Type: 'Deluxe', Price: 20000 },
  { Room_no: 1001, Type: 'Suite', Price: 20000 } ],
Cuisines: [ 'Indian', 'Italian' ],
likes: 2000 }
{ _id: ObjectId("62dce14411d219dd18a3fa92"),
Hotel_id: 4,
Hotel_name: 'Novotel',
Type: 'Hotel+Restaurant',
Ratings: 6,
Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
Room:
[ { Room_no: 1000, Type: 'Deluxe', Price: 30000 },
  { Room_no: 1001, Type: 'Treehouse', Price: 20000 } ],
Cuisines: [ 'Indian', 'CHinese' ],
likes: 2000 }
{ _id: ObjectId("62dce49811d219dd18a3fa97"),
Hotel_id: 9,
Hotel_name: 'Oberoi',
Type: 'Hotel+Restaurant',
Ratings: 8,
Address: { Area: 'Baner', City: 'Pune', Pincode: 411045 },
Room:
[ { Room_no: 112, Type: 'Deluxe', Price: 67000 },
  { Room_no: 114, Type: 'Suite', Price: 85600 } ],
Cuisines: [ 'Indian', 'Italian' ],
likes: 89000 }

```

10) db.Hotel.find({"Address.City":{"\$in:["Mumbai","Chennai"]}})

```

{ _id: ObjectId("62dce02011d219dd18a3fa91"),
Hotel_id: 3,

```

```
Hotel_name: 'Taj',
Type: 'Hotel+Restaurant',
Ratings: 10,
Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
  { Room_no: 102, Type: 'Suite', Price: 200000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 10000000 }
{ _id: ObjectId("62dce14411d219dd18a3fa93"),
Hotel_id: 5,
Hotel_name: 'Ibis',
Type: 'Hotel+Restaurant',
Ratings: 5,
Address: { Area: 'Bandra', City: 'Mumbai', Pincode: 400002 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 60000 },
  { Room_no: 102, Type: 'Sea-facing', Price: 80000 } ],
Cuisines: [ 'Indian' ],
likes: 50000 }
{ _id: ObjectId("62dce27411d219dd18a3fa94"),
Hotel_id: 6,
Hotel_name: 'Conrad',
Type: 'Hotel+Restaurant',
Ratings: 8,
Address: { Area: 'Alandur', City: 'Chennai', Pincode: 600001 },
Room:
[ { Room_no: 10, Type: 'Suite', Price: 80000 },
  { Room_no: 11, Type: 'Sea-facing', Price: 85000 } ],
Cuisines: [ 'Indian', 'Italian' ],
likes: 2000 }
{ _id: ObjectId("62dce27411d219dd18a3fa95"),
Hotel_id: 7,
Hotel_name: 'Vivanta',
Type: 'Hotel+Restaurant',
Ratings: 5,
Address: { Area: 'Goregaon', City: 'Mumbai', Pincode: 400003 },
Room:
[ { Room_no: 111, Type: 'Deluxe', Price: 60000 },
  { Room_no: 112, Type: 'Sea-facing', Price: 80000 } ],
Cuisines: [ 'Indian', 'Italian' ],
likes: 6000 }
{ _id: ObjectId("62dce49811d219dd18a3fa96"),
Hotel_id: 8,
Hotel_name: 'JW Marriott',
Type: 'Hotel+Restaurant',
Ratings: 8,
Address: { Area: 'Anna Nagar', City: 'Chennai', Pincode: 600002 },
Room:
[ { Room_no: 1001, Type: 'Suite', Price: 89000 },
```



```

{ Room_no: 11, Type: 'Sea-facing', Price: 100000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 67000 }
{ _id: ObjectId("62dce72d11d219dd18a3fa98"),
Hotel_id: 10,
Hotel_name: 'Ginger',
Type: 'Hotel+Restaurant',
Ratings: 3,
Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
Room:
[ { Room_no: 118, Type: 'Suite', Price: 20000 },
{ Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 2000 }

```

**11) db.Hotel.find({\$and:[{likes:{\$gt:200000}},{Cuisines:"Italian"}]})**

```

{ _id: ObjectId("62dcde4f11d219dd18a3fa8f"),
Hotel_id: 1,
Hotel_name: 'Sheraton',
Type: 'Hotel+Restaurant',
Ratings: 9,
Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
{ Room_no: 102, Type: 'Suite', Price: 40000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 400000 }
{ _id: ObjectId("62dce02011d219dd18a3fa91"),
Hotel_id: 3,
Hotel_name: 'Taj',
Type: 'Hotel+Restaurant',
Ratings: 10,
Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
{ Room_no: 102, Type: 'Suite', Price: 200000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 1000000 }

```

**12) db.Hotel.find({\$or:[{Likes:{\$in:[200000]}},{Cuisines:{\$in:["Italian","Indian"]}]]})**

```

{ _id: ObjectId("62dcde4f11d219dd18a3fa8f"),
Hotel_id: 1,
Hotel_name: 'Sheraton',
Type: 'Hotel+Restaurant',

```

```
Ratings: 9,
Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
  { Room_no: 102, Type: 'Suite', Price: 40000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 400000 }
{ _id: ObjectId("62dce02011d219dd18a3fa90"),
  Hotel_id: 2,
  Hotel_name: 'Lemon Tree',
  Type: 'Hotel+Restaurant',
  Ratings: 4,
  Address: { Area: 'Dattawadi', City: 'Pune', Pincode: 411009 },
  Room:
  [ { Room_no: 1000, Type: 'Deluxe', Price: 20000 },
    { Room_no: 1001, Type: 'Suite', Price: 20000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 2000 }
{ _id: ObjectId("62dce02011d219dd18a3fa91"),
  Hotel_id: 3,
  Hotel_name: 'Taj',
  Type: 'Hotel+Restaurant',
  Ratings: 10,
  Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
  Room:
  [ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
    { Room_no: 102, Type: 'Suite', Price: 200000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 10000000 }
{ _id: ObjectId("62dce14411d219dd18a3fa92"),
  Hotel_id: 4,
  Hotel_name: 'Novotel',
  Type: 'Hotel+Restaurant',
  Ratings: 6,
  Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
  Room:
  [ { Room_no: 1000, Type: 'Deluxe', Price: 30000 },
    { Room_no: 1001, Type: 'Treehouse', Price: 20000 } ],
  Cuisines: [ 'Indian', 'CHinese' ],
  likes: 2000 }
{ _id: ObjectId("62dce14411d219dd18a3fa93"),
  Hotel_id: 5,
  Hotel_name: 'Ibis',
  Type: 'Hotel+Restaurant',
  Ratings: 5,
  Address: { Area: 'Bandra', City: 'Mumbai', Pincode: 400002 },
  Room:
  [ { Room_no: 101, Type: 'Deluxe', Price: 60000 },
    { Room_no: 102, Type: 'Sea-facing', Price: 80000 } ],
  Cuisines: [ 'Indian' ],
```

```
likes: 50000 }
{ _id: ObjectId("62dce27411d219dd18a3fa94"),
  Hotel_id: 6,
  Hotel_name: 'Conrad',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Alandur', City: 'Chennai', Pincode: 600001 },
  Room:
  [ { Room_no: 10, Type: 'Suite', Price: 80000 },
    { Room_no: 11, Type: 'Sea-facing', Price: 85000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
likes: 2000 }
{ _id: ObjectId("62dce27411d219dd18a3fa95"),
  Hotel_id: 7,
  Hotel_name: 'Vivanta',
  Type: 'Hotel+Restaurant',
  Ratings: 5,
  Address: { Area: 'Goregaon', City: 'Mumbai', Pincode: 400003 },
  Room:
  [ { Room_no: 111, Type: 'Deluxe', Price: 60000 },
    { Room_no: 112, Type: 'Sea-facing', Price: 80000 } ],
  Cuisine: [ 'Indian', 'Italian' ],
likes: 6000 }
{ _id: ObjectId("62dce49811d219dd18a3fa96"),
  Hotel_id: 8,
  Hotel_name: 'JW Marriott',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Anna Nagar', City: 'Chennai', Pincode: 600002 },
  Room:
  [ { Room_no: 1001, Type: 'Suite', Price: 89000 },
    { Room_no: 11, Type: 'Sea-facing', Price: 100000 } ],
  Cuisines: [ 'Indian', 'Chinese', 'Italian' ],
likes: 67000 }
{ _id: ObjectId("62dce49811d219dd18a3fa97"),
  Hotel_id: 9,
  Hotel_name: 'Oberoi',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Baner', City: 'Pune', Pincode: 411045 },
  Room:
  [ { Room_no: 112, Type: 'Deluxe', Price: 67000 },
    { Room_no: 114, Type: 'Suite', Price: 85600 } ],
  Cuisines: [ 'Indian', 'Italian' ],
likes: 89000 }
{ _id: ObjectId("62dce72d11d219dd18a3fa98"),
  Hotel_id: 10,
  Hotel_name: 'Ginger',
  Type: 'Hotel+Restaurant',
  Ratings: 3,
```

```
Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
Room:
[ { Room_no: 118, Type: 'Suite', Price: 20000 },
  { Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 2000 }
```

**13) db.Hotel.distinct("Address.Area")**

```
[
  'Alandur', 'Anna Nagar',
  'Bandra', 'Baner',
  'Dattawadi', 'Goregaon',
  'KP', 'Malad',
  'Worli'
]
```

**Pattern matching queries:**

**14) db.Hotel.find({Hotel\_name:/a\$/})** //ending with A

```
{ _id: ObjectId("62dce27411d219dd18a3fa95"),
  Hotel_id: 7,
  Hotel_name: 'Vivanta',
  Type: 'Hotel+Restaurant',
  Ratings: 5,
  Address: { Area: 'Goregaon', City: 'Mumbai', Pincode: 400003 },
  Room:
  [ { Room_no: 111, Type: 'Deluxe', Price: 60000 },
    { Room_no: 112, Type: 'Sea-facing', Price: 80000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 6000 }
```

**15) db.Hotel.find({Hotel\_name:/^S/})** //starting with "S"

```
{ _id: ObjectId("62dcde4f11d219dd18a3fa8f"),
  Hotel_id: 1,
  Hotel_name: 'Sheraton',
  Type: 'Hotel+Restaurant',
  Ratings: 9,
  Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
  Room:
  [ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
    { Room_no: 102, Type: 'Suite', Price: 40000 } ],
```

```
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],  
likes: 400000 }
```

16) db.Hotel.find({Hotel\_name:/.\*ant\*/}) //containing "an"

```
{ _id: ObjectId("62dce27411d219dd18a3fa95"),  
  Hotel_id: 7,  
  Hotel_name: 'Vivanta',  
  Type: 'Hotel+Restaurant',  
  Ratings: 5,  
  Address: { Area: 'Goregaon', City: 'Mumbai', Pincode: 400003 },  
  Room: [  
    { Room_no: 111, Type: 'Deluxe', Price: 60000 },  
    { Room_no: 112, Type: 'Sea-facing', Price: 80000 } ],  
  Cuisines: [ 'Indian', 'Italian' ],  
  likes: 6000 }
```

17) db.Hotel.find().count()

<10

18) db.Hotel.find({"Address.City":"Pune"}).count()

<4

19) db.Hotel.find().sort({"Hotel\_name":-1})

```
{ _id: ObjectId("62dce27411d219dd18a3fa95"),  
  Hotel_id: 7,  
  Hotel_name: 'Vivanta',  
  Type: 'Hotel+Restaurant',  
  Ratings: 5,  
  Address: { Area: 'Goregaon', City: 'Mumbai', Pincode: 400003 },  
  Room: [  
    { Room_no: 111, Type: 'Deluxe', Price: 60000 },  
    { Room_no: 112, Type: 'Sea-facing', Price: 80000 } ],  
  Cuisines: [ 'Indian', 'Italian' ],  
  likes: 6000 }  
{ _id: ObjectId("62dce02011d219dd18a3fa91"),  
  Hotel_id: 3,  
  Hotel_name: 'Taj',
```

```
Type: 'Hotel+Restaurant',
Ratings: 10,
Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
  { Room_no: 102, Type: 'Suite', Price: 200000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 10000000 }
{ _id: ObjectId("62dcde4f11d219dd18a3fa8f"),
  Hotel_id: 1,
  Hotel_name: 'Sheraton',
  Type: 'Hotel+Restaurant',
  Ratings: 9,
  Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
  Room:
  [ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
    { Room_no: 102, Type: 'Suite', Price: 40000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 400000 }
{ _id: ObjectId("62dce49811d219dd18a3fa97"),
  Hotel_id: 9,
  Hotel_name: 'Oberoi',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Baner', City: 'Pune', Pincode: 411045 },
  Room:
  [ { Room_no: 112, Type: 'Deluxe', Price: 67000 },
    { Room_no: 114, Type: 'Suite', Price: 85600 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 89000 }
{ _id: ObjectId("62dce14411d219dd18a3fa92"),
  Hotel_id: 4,
  Hotel_name: 'Novotel',
  Type: 'Hotel+Restaurant',
  Ratings: 6,
  Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
  Room:
  [ { Room_no: 1000, Type: 'Deluxe', Price: 30000 },
    { Room_no: 1001, Type: 'Treehouse', Price: 20000 } ],
  Cuisines: [ 'Indian', 'CHinese' ],
  likes: 2000 }
{ _id: ObjectId("62dce02011d219dd18a3fa90"),
  Hotel_id: 2,
  Hotel_name: 'Lemon Tree',
  Type: 'Hotel+Restaurant',
  Ratings: 4,
  Address: { Area: 'Dattawadi', City: 'Pune', Pincode: 411009 },
  Room:
  [ { Room_no: 1000, Type: 'Deluxe', Price: 20000 },
    { Room_no: 1001, Type: 'Suite', Price: 20000 } ],
```

```
Cuisines: [ 'Indian', 'Italian' ],
likes: 2000 }
{ _id: ObjectId("62dce49811d219dd18a3fa96"),
Hotel_id: 8,
Hotel_name: 'JW Marriott',
Type: 'Hotel+Restaurant',
Ratings: 8,
Address: { Area: 'Anna Nagar', City: 'Chennai', Pincode: 600002 },
Room:
[ { Room_no: 1001, Type: 'Suite', Price: 89000 },
{ Room_no: 11, Type: 'Sea-facing', Price: 100000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 67000 }
{ _id: ObjectId("62dce14411d219dd18a3fa93"),
Hotel_id: 5,
Hotel_name: 'Ibis',
Type: 'Hotel+Restaurant',
Ratings: 5,
Address: { Area: 'Bandra', City: 'Mumbai', Pincode: 400002 },
Room:
[ { Room_no: 101, Type: 'Deluxe', Price: 60000 },
{ Room_no: 102, Type: 'Sea-facing', Price: 80000 } ],
Cuisines: [ 'Indian' ],
likes: 50000 }
{ _id: ObjectId("62dce72d11d219dd18a3fa98"),
Hotel_id: 10,
Hotel_name: 'Ginger',
Type: 'Hotel+Restaurant',
Ratings: 3,
Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
Room:
[ { Room_no: 118, Type: 'Suite', Price: 20000 },
{ Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 2000 }
{ _id: ObjectId("62dce27411d219dd18a3fa94"),
Hotel_id: 6,
Hotel_name: 'Conrad',
Type: 'Hotel+Restaurant',
Ratings: 8,
Address: { Area: 'Alandur', City: 'Chennai', Pincode: 600001 },
Room:
[ { Room_no: 10, Type: 'Suite', Price: 80000 },
{ Room_no: 11, Type: 'Sea-facing', Price: 85000 } ],
Cuisines: [ 'Indian', 'Italian' ],
likes: 2000 }
```

20) db.Hotel.distinct("Hotel\_name")

```
[  
'Conrad', 'Ginger',  
'Ibis', 'JW Marriott',  
'Lemon Tree', 'Novotel',  
'Oberoi', 'Sheraton',  
'Taj', 'Vivanta'  
]
```

21) db.Hotel.find().limit(2)

```
{ _id: ObjectId("62dcde4f11d219dd18a3fa8f"),  
Hotel_id: 1,  
Hotel_name: 'Sheraton',  
Type: 'Hotel+Restaurant',  
Ratings: 9,  
Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },  
Room: [  
  { Room_no: 101, Type: 'Deluxe', Price: 40000 },  
  { Room_no: 102, Type: 'Suite', Price: 40000 } ],  
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],  
likes: 400000 }  
{ _id: ObjectId("62dce02011d219dd18a3fa90"),  
Hotel_id: 2,  
Hotel_name: 'Lemon Tree',  
Type: 'Hotel+Restaurant',  
Ratings: 4,  
Address: { Area: 'Dattawadi', City: 'Pune', Pincode: 411009 },  
Room: [  
  { Room_no: 1000, Type: 'Deluxe', Price: 20000 },  
  { Room_no: 1001, Type: 'Suite', Price: 20000 } ],  
Cuisines: [ 'Indian', 'Italian' ],  
likes: 2000 }
```

22) db.Hotel.find({"Address.City":{\$in:["Mumbai","Chennai"]}})

```
{ _id: ObjectId("62dce02011d219dd18a3fa91"),  
Hotel_id: 3,  
Hotel_name: 'Taj',  
Type: 'Hotel+Restaurant',  
Ratings: 10,  
Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },  
Room: [  
  { Room_no: 101, Type: 'Deluxe', Price: 100000 },  
  { Room_no: 102, Type: 'Suite', Price: 200000 } ],
```



```
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 10000000 }
{ _id: ObjectId("62dce14411d219dd18a3fa93"),
  Hotel_id: 5,
  Hotel_name: 'Ibis',
  Type: 'Hotel+Restaurant',
  Ratings: 5,
  Address: { Area: 'Bandra', City: 'Mumbai', Pincode: 400002 },
  Room:
  [ { Room_no: 101, Type: 'Deluxe', Price: 60000 },
    { Room_no: 102, Type: 'Sea-facing', Price: 80000 } ],
  Cuisines: [ 'Indian' ],
  likes: 50000 }
{ _id: ObjectId("62dce27411d219dd18a3fa94"),
  Hotel_id: 6,
  Hotel_name: 'Conrad',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Alandur', City: 'Chennai', Pincode: 600001 },
  Room:
  [ { Room_no: 10, Type: 'Suite', Price: 80000 },
    { Room_no: 11, Type: 'Sea-facing', Price: 85000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 2000 }
{ _id: ObjectId("62dce27411d219dd18a3fa95"),
  Hotel_id: 7,
  Hotel_name: 'Vivanta',
  Type: 'Hotel+Restaurant',
  Ratings: 5,
  Address: { Area: 'Goregaon', City: 'Mumbai', Pincode: 400003 },
  Room:
  [ { Room_no: 111, Type: 'Deluxe', Price: 60000 },
    { Room_no: 112, Type: 'Sea-facing', Price: 80000 } ],
  Cuisines: [ 'Indian', 'Italian' ],
  likes: 6000 }
{ _id: ObjectId("62dce49811d219dd18a3fa96"),
  Hotel_id: 8,
  Hotel_name: 'JW Mariott',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Anna Nagar', City: 'Chennai', Pincode: 600002 },
  Room:
  [ { Room_no: 1001, Type: 'Suite', Price: 89000 },
    { Room_no: 11, Type: 'Sea-facing', Price: 100000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 67000 }
{ _id: ObjectId("62dce72d11d219dd18a3fa98"),
  Hotel_id: 10,
  Hotel_name: 'Ginger',
  Type: 'Hotel+Restaurant',
```

```

Ratings: 3,
Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
Room:
[ { Room_no: 118, Type: 'Suite', Price: 20000 },
  { Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 2000 }

```

23) `db.Hotel.find({"likes":6000},{"Hotel_name":1,_id:0})`

```
{ Hotel_name: 'Vivanta' }
```

24) `db.Hotel.find({$where:"this.Cuisines.length > 2"});`

```

{ _id: ObjectId("62dcde4f11d219dd18a3fa8f"),
  Hotel_id: 1,
  Hotel_name: 'Sheraton',
  Type: 'Hotel+Restaurant',
  Ratings: 9,
  Address: { Area: 'KP', City: 'Pune', Pincode: 411001 },
  Room:
  [ { Room_no: 101, Type: 'Deluxe', Price: 40000 },
    { Room_no: 102, Type: 'Suite', Price: 40000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 400000 }
{ _id: ObjectId("62dce02011d219dd18a3fa91"),
  Hotel_id: 3,
  Hotel_name: 'Taj',
  Type: 'Hotel+Restaurant',
  Ratings: 10,
  Address: { Area: 'Worli', City: 'Mumbai', Pincode: 400001 },
  Room:
  [ { Room_no: 101, Type: 'Deluxe', Price: 100000 },
    { Room_no: 102, Type: 'Suite', Price: 200000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 10000000 }
{ _id: ObjectId("62dce49811d219dd18a3fa96"),
  Hotel_id: 8,
  Hotel_name: 'JW Marriott',
  Type: 'Hotel+Restaurant',
  Ratings: 8,
  Address: { Area: 'Anna Nagar', City: 'Chennai', Pincode: 600002 },
  Room:
  [ { Room_no: 1001, Type: 'Suite', Price: 89000 },
    { Room_no: 11, Type: 'Sea-facing', Price: 100000 } ],
  Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
  likes: 67000 }
{ _id: ObjectId("62dce72d11d219dd18a3fa98"),
  Hotel_id: 10,
  Hotel_name: 'Ginger',

```

```
Type: 'Hotel+Restaurant',
Ratings: 3,
Address: { Area: 'Malad', City: 'Mumbai', Pincode: 400009 },
Rooms:
[ { Room_no: 118, Type: 'Suite', Price: 20000 },
  { Room_no: 119, Type: 'Sea-facing', Price: 30000 } ],
Cuisines: [ 'Indian', 'CHinese', 'Italian' ],
likes: 2000 }
```

**25) db.Hotel.updateOne({Hotel\_name:"Ginger"},{\$inc:{likes:+1}},{multi:true})**

```
{ acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0 }
```

**26) db.Hotel.update({Hotel\_name:"Sheraton"},{\$push:{Cuisines:{\$each:["Korean","Japanese"]}}},{multi:true})**  
**//update many**

```
{ acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0 }
```

**27) db.Hotel.update({Hotel\_name:"Sheraton"},{\$push:{Cuisines:"Lebanese"}},{multi:true})**  
**//update one**

```
{ acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0 }
```

**28) db.Hotel.update({Hotel\_name:"Ginger"},{\$pop:{'Rooms':1}},{multi:true})**  
**//pop first element**

```
{ acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0 }
```

**29) db.Hotel.update({Hotel\_name:"Ibis"},{\$pop:{"Rooms":-1}},{multi:true})  
//pop last element**

```
{ acknowledged: true,  
insertedId: null,  
matchedCount: 1,  
modifiedCount: 1,  
upsertedCount: 0 }
```

**30) db.Hotel.update({"Hotel\_name":"Ibis"},{\$set:{"Hotel\_name":"Taj Blue Diamond"}})**

```
{ acknowledged: true,  
insertedId: null,  
matchedCount: 1,  
modifiedCount: 1,  
upsertedCount: 0 }
```

**31) db.Hotel.update({Hotel\_name:"Lemon Tree" },  
{\$set:{Hotel\_name:"Sendou",Type:"Hotel+Restaurant",Ratings:5,  
Address:{Area:"Toyotomi",City:"Tokyo",Pincode:"4411000"},Rooms:[{Room\_no:42,Type:"Pod",Price:"3000"},{Room\_no:501,Type:"Suite",Price:"50000"},{Room\_no:1000,Type:"AC",Price:"20000"}],Cuisines:["Indian","Italian","Japanese","Spanish"],likes:50000}})**

```
{ acknowledged: true,  
insertedId: null,  
matchedCount: 1,  
modifiedCount: 1,  
upsertedCount: 0 }
```

**32) db.Hotel.update({Hotel\_name:"Lemon Tree" }, {\$set:{Address:{Area:"Shinjuku",City:"Tokyo",Pincode:"4411002"}}})**

```
{ acknowledged: true,  
insertedId: null,  
matchedCount: 1,  
modifiedCount: 1,  
upsertedCount: 0 }
```

**33) db.Hotel.findAndModify({query:{Hotel\_name:"StyxHelix"},  
update:{\$set:{Hotel\_id:20,Type:"Hotel+Restaurant",  
Ratings:5,  
Address:{Area:"Yoshihide",City:"Osaka",Pincode:"4511000"},**

```
Rooms:[{Room_no:402,Type:"Twin
Sharing",Price:"3000"},{Room_no:501,Type:"Presidential
Suite",Price:"5000"},{Room_no:100,Type:"Non AC",Price:"2000"}],
Cuisines:["Indian","Italian","Japanese","Spanish"],
likes:50000
}},upsert:true}}
```

```
<null
(Firing the query again...)

{ _id: ObjectId("62f27e7c1df0b48f46837aee"),
  Hotel_name: 'StyxHelix',
  Address: { Area: 'Yoshihide', City: 'Osaka', Pincode: '4511000' },
  Cuisine: [ 'Indian', 'Italian', 'Japanese', 'Spanish' ],
  Hotel_id: 20,
  Ratings: 5,
  Room:
  [ { Room_no: 402, Type: 'Twin Sharing', Price: '3000' },
    { Room_no: 501, Type: 'Presidential Suite', Price: '5000' },
    { Room_no: 100, Type: 'Non AC', Price: '2000' } ],
  Type: 'Hotel+Restaurant',
  likes: 50000 }
```

34) db.Hotel.deleteOne({Hotel\_id: 3}) //Remove all documents that match a condition

```
{ acknowledged: true, deletedCount: 1 }
```

35) db.Hotel.delete({Hotel\_id: 4},1) //Remove a Single Document that Matches a Condition

```
{ acknowledged: true, deletedCount: 1 }
```

36) db.Hotel.drop()

```
<true
```