**public** **class** State {

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

**private** **int** sno;

**private** String sname;

**private** String capitalCity;

@OneToOne(cascade = CascadeType.***ALL***,fetch = FetchType.***EAGER***)

@JoinColumn(name = "sno",referencedColumnName = "sno")

ChiefMinister chiefMinister;

}

**public** **class** ChiefMinister {

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

**private** **int** cmno;

**private** String cmName;

**private** **int** cmAge;

**private** String cmGender

}

NOTE :

In a @OneToOne relationship, the **foreign key** is created in the **owner** entity, which is the entity where the relationship is defined with the @JoinColumn annotation.

One To Many

**public** **class** Dept {

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

**private** **int** dno;

**private** String dname;

**private** String city;

@OneToMany(cascade = CascadeType.***ALL***,fetch = FetchType.***EAGER***)

@JoinColumn(name = "dno",referencedColumnName = "dno")

List<Employee> deptWorkers;

}

**public** **class** Employee {

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

**private** **int** eno;

**private** String ename;

**private** **double** sal;

}

NOTE :

In a @OneToMany relationship, the **foreign key** is created in the **non owner** entity.

Postman Payload

Add Department:

{

    "dname": "Sales",

    "city": "Mumbai",

    "deptWorkers": [

        {

            "ename": "Chris",

            "sal": 700.0

        },

        {

            "ename": "David",

            "sal": 800.0

        }

    ]

}

Add Emp

{

    "ename":"Chris",

    "sal":1000.0,

    "dno": 1

}

Many To Many

**public** **class** Library {

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

**private** **int** lno;

**private** String lname;

**private** String city;

@OneToMany(cascade = CascadeType.***ALL***,fetch = FetchType.***EAGER***)

@JoinColumn(name = "libno",referencedColumnName = "lno")

List<Book> books;

}

**public** **class** Book {

@Id

@GeneratedValue(strategy = GenerationType.***IDENTITY***)

**private** **int** bno;

**private** String bname;

**private** **double** price;

}

Add Library

{

    "lname":"Modern Library",

    "city":"Pune",

    "books":[

        {

            "bname":"Apple",

            "price" : 800

        },

        {

            "bname":"Mango",

            "price" : 900

        }

    ]

}

Delete Library

NOTE : **many-to-many** relationship. The **join table** will manage the relationship between them.