

Date : 10/04/2021  
Spring Boot 9AM  
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MongoDB Complex Types using Embeddded and DBRef

\*) Embedded : Placing one JSON Document inside another JSON Document  
for Association Mapping is called as Embedded

=> Creating only one collection for all Associated Models.

```
Employee ----<> Address
  eid          aid
  ename        hno
  addr(HAS-A)  loc
```

//Only one collection : employee

```
{
  "eid"    : 10,
  "ename"  : "A",
  "addr"   : {
    "aid": 501
    "hno": "5-67",
    "loc": "HYD"
  }
}
```

-----  
DBRef : Creating Independent collections for association mapping  
using Id as Link variable with parent collection.  
[ One collection # Id as another Collection # DBRef ]  
[ One Table # PK as another Table # FK ]

```
Employee -----<> Department
  eid          did
  ename        dname
  dob
```

//dept-collection

```
{
  "did"    : 10,           //PK
  "dname"  : "DEV",
}
```

-----  
//employee-collection

```
{
  "eid"    : 101,
  "ename"  : "ABC"
  "dob"    : ("dept-collection",10)           [Reference/FK]
}
```

-----  
Embedded = ORM(1...\*/1...1)

-----  
DBRef = ORM(\*...1/\*...\*)

-----

Q) In which case we do use Embedded and DBRef?

A)

Do you want to re-use data(JSON Doc) the use DBRef  
else use Embedded

=====

\*) Every Association Mapping(HAS-A) without any annotation  
in SpringBoot MongoDB is default Embedded.

=>For DBRef use Annotation @DBRef over HAS-A Variable

But for child

- a. Define as a Document
- b. Provide @Id for Document too
- c. Create Repository Interface even
- d. save them before calling save method to parent.